



**DITTMER PAD LIGHTING PLAN**

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**Article I. Introduction**

*Location Information*

This document provides site-specific information for the Dittmer Pad as 1041WOGLA22-0042 and within the Dittmer Pad OGD. The information in this document relates specifically to the time during the construction, drilling, completion, and production of the sixteen (16) proposed horizontal wells on this location.

The proposed location is dry cropland approximately 1,712' Southeast of the intersection of WCR 4 and North Main Street (WCR 27). The Pad will be in the NWNW Section 32, Township 1 North, Range 66 West, zoned agricultural within Weld County's Near-Urban planning area. An OGD is being filed concurrently with the 1041WOGLA22-0042 as COGCC 2A doc #403185947.

The proposed Pad will be 10.1 acres, reduced to 7 acres for interim reclamation. The working pad surface will be 6.2 acres. The Pad is on parcel #147132000026 owned by Dittmer Farm LLC and Blue Pill LLC. The location is currently used for grazing.

The proposed facility equipment for the Dittmer Pad will be located within the Working Pad Surface adjacent to the wells consisting of oil tanks, water tanks, compressors, meters, LACT unit, separators, vapor recovery towers (VRT), vapor recovery units (VRU), emission control devices (ECD), instrument air skid, and proposed electrical and/or solar equipment.

<b>Phase</b>	<b>Duration (Days)</b>	<b>Estimated Start Date</b>
Construction	14	1 <sup>st</sup> Quarter (February) 2024
Drilling	106	1 <sup>st</sup> Quarter (March) 2024
Completions (Prep and Frac)	115	2 <sup>nd</sup> Quarter (June) 2024
Flowback (Drill Out and flowback)	60	3 <sup>rd</sup> Quarter (September) 2024
Production	25 Years	4 <sup>th</sup> Quarter (November) 2024
Interim Reclamation*	10	4 <sup>th</sup> Quarter (November) 2024

*\*or the first favorable growing season.*

**Article II. Plan Narrative**

*Jurisdictional Agency*

The Relevant Local Government has lighting plan requirements under applicable Weld County code.

The Land Use designation of the proposed Location is agricultural within the Near Urban Planning Area. Operator, OGED, CPW, and COGCC OGLA staff confirmed in the pre-application meeting that a lighting plan for the Construction Phase will be required to provide confirmation of the ability to comply within 12 lumens per sq ft of hardscape; a Lighting Plan for the Production Phase shall be required if permanent lighting is planned. Incline is submitting a Photometric Plan with the 1041 WOGLA Application submittal adhering to Lighting Zone 1 of the Weld County Code Development Standards, Sec. 21-5-405.A.1, which allows up to 12.0 lumens per SF of hardscape during construction and up to 1.25 lumens per SF of hardscape during production. There will be permanent lighting onsite during the production phase emitting 0.43 lumens per SF.



The standards within COGCC Rule 424 are less protective than WOGLA standards; the stricter agency's standards will be followed.

COGCC Maximum Permissible Light Levels:

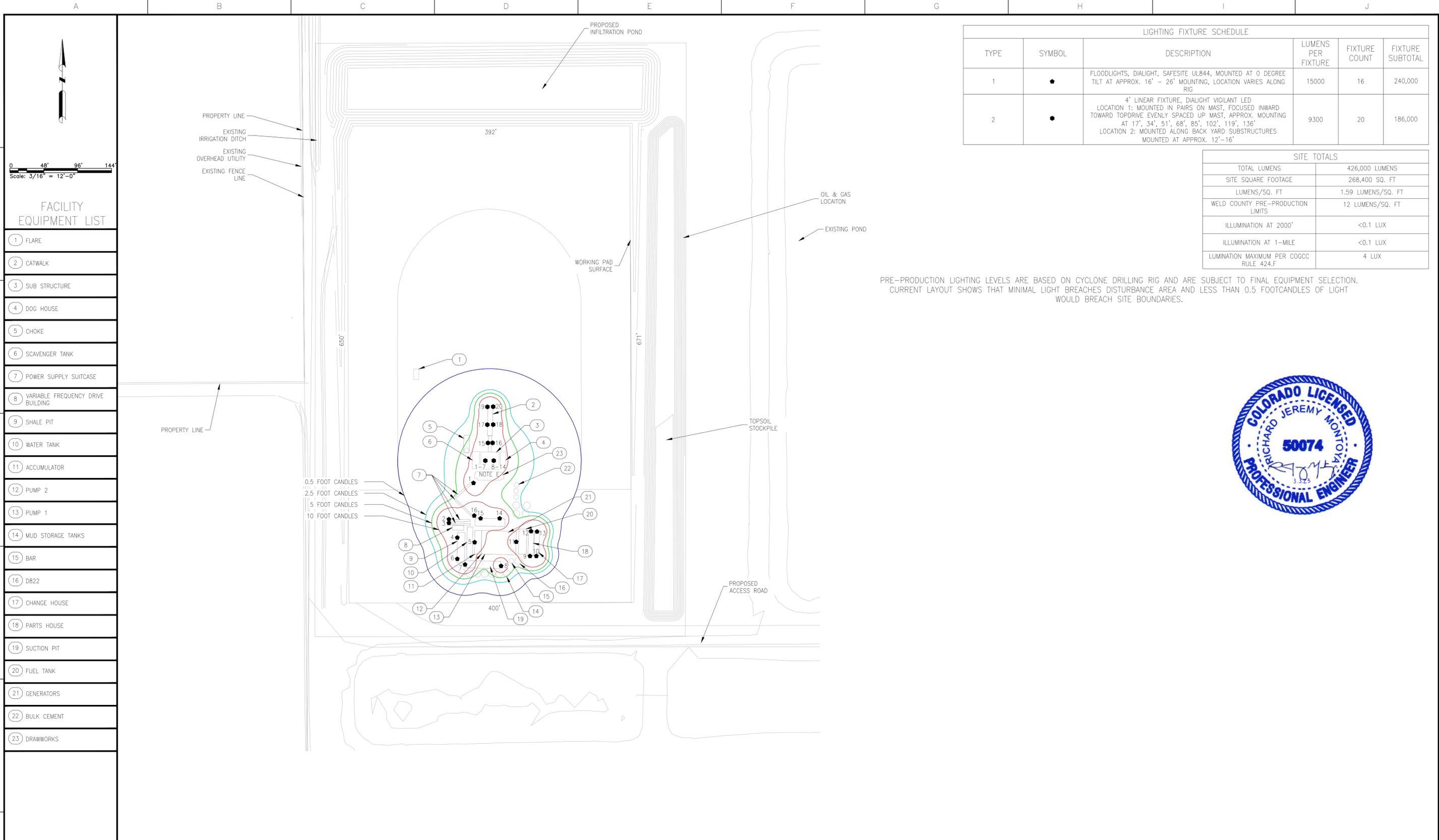
<b>LAND USE</b>	<b>Lumens per square foot of Working Pad Surface</b>
Residential /Rural/State Parks/State Wildlife Areas/High Priority Habitat/Wilderness Areas/National Park/National Monument	1.25
Commercial/Agricultural	2.5
Light Industrial	5.0
Industrial	7.5

Article III. **Mitigation Measures and Best Management Practices**

- Operator will direct site lighting downward and inward, such that no light shines above a horizontal plane passing through the center point light source.
- Operator will use appropriate technology within fixtures that obscures, blocks, or diffuses the light to reduce light intensity outside the boundaries of the Oil and Gas Facility.
- Operator will minimize lighting when not needed to minimize light pollution and obtrusive lighting.
- Operator will use full cut-off lighting to minimize light pollution and obtrusive lighting.
- Operator will use lighting colors that reduce light intensity to minimize light pollution and obtrusive lighting.
- Operator will use low-glare or no-glare lighting to minimize light pollution and obtrusive lighting.
- When operator has active operations involving personnel ongoing at an oil and gas location, Operator will provide sufficient on-site pre-production lighting to ensure the safety of all persons on or near the site.
- Location will be fully wrapped with engineered sound walls. Operator will take all necessary and reasonable precautions to ensure that lighting from Oil and Gas Facilities does not unnecessarily impact the health, safety, and welfare of persons occupying the 12 Residential Building Units (0 HOBUs within 5,280 feet) within 2,000 feet of the Oil and Gas Location and 11 Residential Building Units (0 HOBUs within 5,280 feet) within 2,000 feet of the Working Pad Surface.
- Operator will take all necessary and reasonable precautions to ensure that lighting from Oil and Gas Facilities does not unnecessarily impact the health, safety, and welfare of motorists on nearby roads.

Article IV. **Exhibits/References/Appendices**

Please see attached signed Lighting Layout sheets.



LIGHTING FIXTURE SCHEDULE					
TYPE	SYMBOL	DESCRIPTION	LUMENS PER FIXTURE	FIXTURE COUNT	FIXTURE SUBTOTAL
1	●	FLOODLIGHTS, DIALIGHT, SAFESITE UL844, MOUNTED AT 0 DEGREE TILT AT APPROX. 16' - 26' MOUNTING, LOCATION VARIES ALONG RIG	15000	16	240,000
2	●	4' LINEAR FIXTURE, DIALIGHT VIGILANT LED LOCATION 1: MOUNTED IN PAIRS ON MAST, FOCUSED INWARD TOWARD TOPDRIVE EVENLY SPACED UP MAST, APPROX. MOUNTING AT 17', 34', 51', 68', 85', 102', 119', 136' LOCATION 2: MOUNTED ALONG BACK YARD SUBSTRUCTURES MOUNTED AT APPROX. 12'-16'	9300	20	186,000

SITE TOTALS	
TOTAL LUMENS	426,000 LUMENS
SITE SQUARE FOOTAGE	268,400 SQ. FT
LUMENS/SQ. FT	1.59 LUMENS/SQ. FT
WELD COUNTY PRE-PRODUCTION LIMITS	12 LUMENS/SQ. FT
ILLUMINATION AT 2000'	<0.1 LUX
ILLUMINATION AT 1-MILE	<0.1 LUX
LUMINATION MAXIMUM PER COGCC RULE 424.F	4 LUX

PRE-PRODUCTION LIGHTING LEVELS ARE BASED ON CYCLONE DRILLING RIG AND ARE SUBJECT TO FINAL EQUIPMENT SELECTION. CURRENT LAYOUT SHOWS THAT MINIMAL LIGHT BREACHES DISTURBANCE AREA AND LESS THAN 0.5 FOOTCANDLES OF LIGHT WOULD BREACH SITE BOUNDARIES.



FACILITY EQUIPMENT LIST	
1	FLARE
2	CATWALK
3	SUB STRUCTURE
4	DOG HOUSE
5	CHOKE
6	SCAVENGER TANK
7	POWER SUPPLY SUITCASE
8	VARIABLE FREQUENCY DRIVE BUILDING
9	SHALE PIT
10	WATER TANK
11	ACCUMULATOR
12	PUMP 2
13	PUMP 1
14	MUD STORAGE TANKS
15	BAR
16	DB22
17	CHANGE HOUSE
18	PARTS HOUSE
19	SUCTION PIT
20	FUEL TANK
21	GENERATORS
22	BULK CEMENT
23	DRAWWORKS

NOTES:  
 A. THIS DRAWING IS BASED ON TYPICAL CYCLONE DRILLING RIG AND IS SUBJECT TO VARIATIONS IN DESIGN AND LAYOUT. EACH LAYOUT IS DESIGNED BY OTHERS BUT SHALL NOT EXCEED THE FIXTURE COUNTS LISTED ON THIS DRAWING.  
 B. ALL LIGHT FIXTURES AND INSTALLATION MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST ISSUE OF LOCAL AND NATIONAL ELECTRICAL CODES, ELECTRICAL SPECIFICATIONS AND DRAWINGS.  
 C. ALL LIGHT FIXTURES AND THE INSTALLATION OF THESE LIGHT FIXTURES SHALL COMPLY WITH COGCC SECTION 424 AND DARK SKY COMPLIANT REQUIREMENTS.  
 D. RIG LIGHTING WILL VARY DEPENDING ON PARTICULAR WELL BEING DRILLED. AREA SHOWN REPRESENTS THE RANGE OF LIGHT DISTRIBUTION WHEN AT THE WELL FURTHEST SOUTH.  
 E. LIGHT FIXTURES 1-7 AND 8-14 ARE MOUNTED IN PAIRS VERTICALLY ON THE MAST.

REFERENCE DRAWINGS		REVISIONS						
DWG NO.	TITLE	REV	DESCRIPTION	DATE	BY	CHK	ENG	APR
		▲	ISSUED FOR PERMIT	03/03/23	LTD	RJM	LTD	RJM
		▲	ISSUED FOR REVIEW	02/17/23	LTD	RJM	LTD	RJM

**HALKER**  
ENGINEERED SOLUTIONS

**INCLINE**  
ENERGY PARTNERS

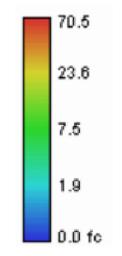
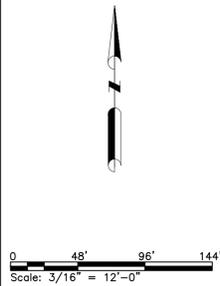
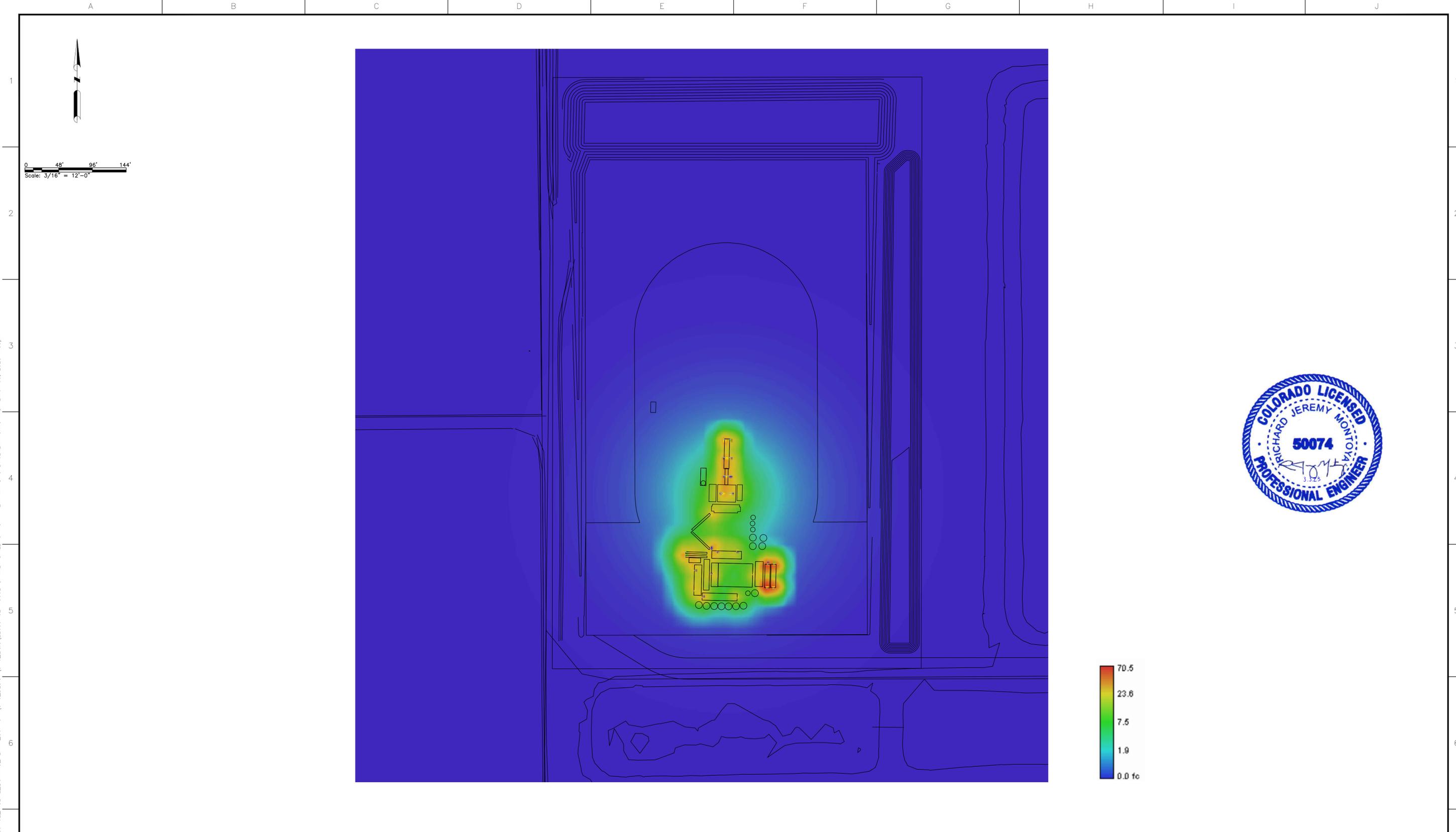
INCLINE ENERGY PARTNERS  
DITTMER PAD  
DRILLING RIG  
LIGHTING LAYOUT

SCALE: (FORMATTED 22X34)  
3/16"=12'-0"

DRAWING NO.  
22059-01-73001

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NOTES:  
 A. HEAT MAP INTENDED TO SHOW VISUAL REPRESENTATION OF CONTENT SHOWN ON OTHER DRAWINGS ASSOCIATED WITH THIS PHASE OF SITE DEVELOPMENT. REFER TO DRAWING-73001 FOR ADDITIONAL DETAILS ON LIGHT FIXTURE LOCATIONS, FIXTURE TYPES, AND EQUIPMENT CALLOUTS.

REFERENCE DRAWINGS		REVISIONS						
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**HALKER**  
ENGINEERED SOLUTIONS

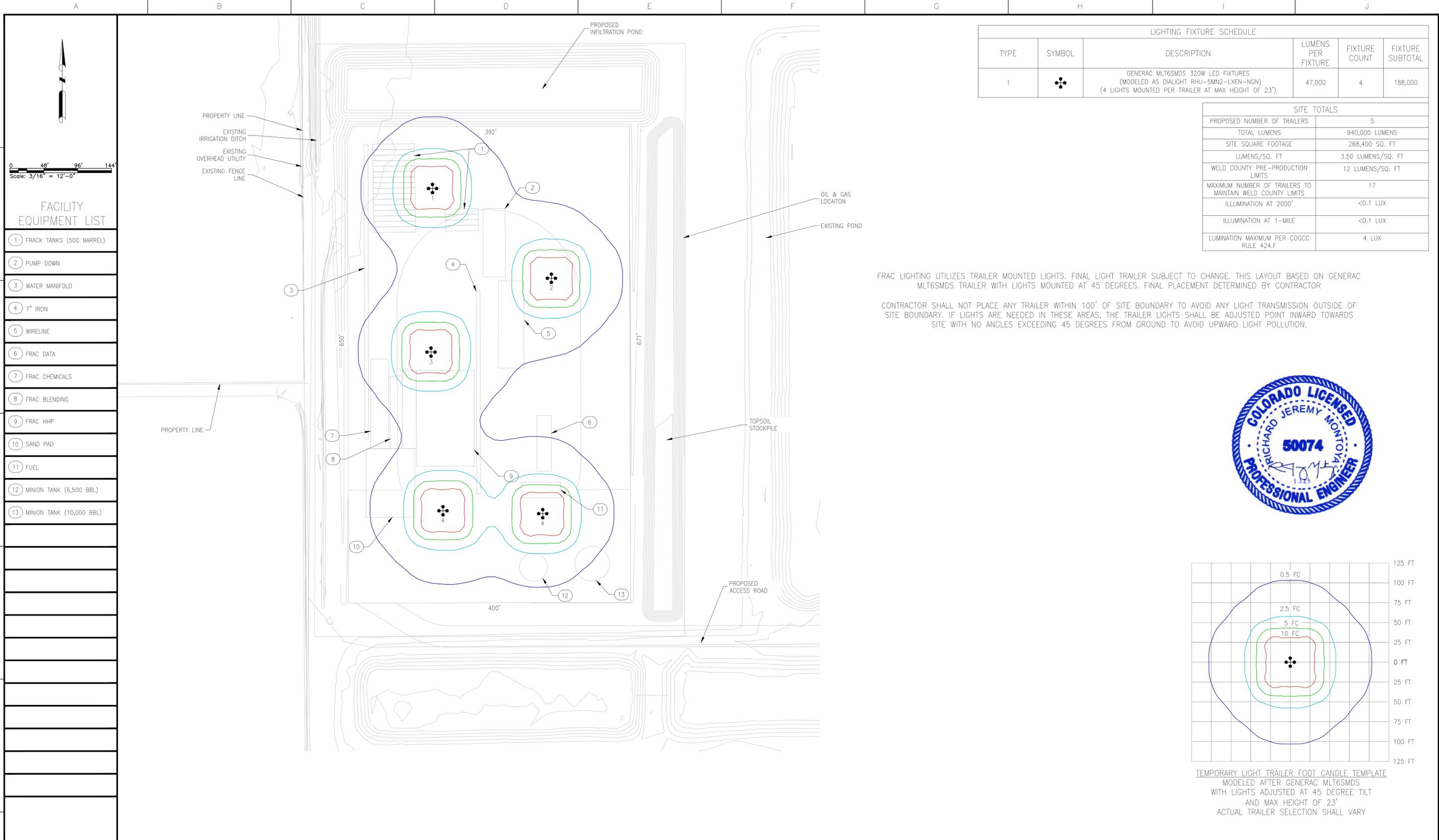
**INCLINE**  
ENERGY PARTNERS

INCLINE ENERGY PARTNERS  
 DITTMER PAD  
 DRILLING RIG  
 LIGHTING LAYOUT - HEATMAP

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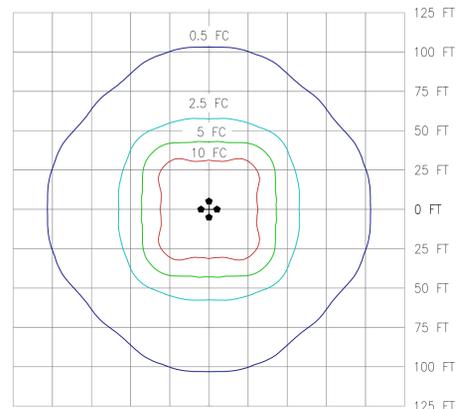


LIGHTING FIXTURE SCHEDULE					
TYPE	SYMBOL	DESCRIPTION	LUMENS PER FIXTURE	FIXTURE COUNT	FIXTURE SUBTOTAL
1	☩	GENERAC MLT6SMDS 320W LED FIXTURES (MODELED AS DIALIGHT RHU-5MN2-LXEN-NGN) (4 LIGHTS MOUNTED PER TRAILER AT MAX HEIGHT OF 23')	47,000	4	188,000

SITE TOTALS	
PROPOSED NUMBER OF TRAILERS	5
TOTAL LUMENS	940,000 LUMENS
SITE SQUARE FOOTAGE	268,400 SQ. FT
LUMENS/SQ. FT	3.50 LUMENS/SQ. FT
WELD COUNTY PRE-PRODUCTION LIMITS	12 LUMENS/SQ. FT
MAXIMUM NUMBER OF TRAILERS TO MAINTAIN WELD COUNTY LIMITS	17
ILLUMINATION AT 2000'	<0.1 LUX
ILLUMINATION AT 1-MILE	<0.1 LUX
LUMINATION MAXIMUM PER COGCC RULE 424.F	4 LUX

FRAC LIGHTING UTILIZES TRAILER MOUNTED LIGHTS. FINAL LIGHT TRAILER SUBJECT TO CHANGE. THIS LAYOUT BASED ON GENERAC MLT6SMDS TRAILER WITH LIGHTS MOUNTED AT 45 DEGREES. FINAL PLACEMENT DETERMINED BY CONTRACTOR

CONTRACTOR SHALL NOT PLACE ANY TRAILER WITHIN 100' OF SITE BOUNDARY TO AVOID ANY LIGHT TRANSMISSION OUTSIDE OF SITE BOUNDARY. IF LIGHTS ARE NEEDED IN THESE AREAS, THE TRAILER LIGHTS SHALL BE ADJUSTED POINT INWARD TOWARDS SITE WITH NO ANGLES EXCEEDING 45 DEGREES FROM GROUND TO AVOID UPWARD LIGHT POLLUTION.



TEMPORARY LIGHT TRAILER FOOT CANDLE TEMPLATE  
MODELED AFTER GENERAC MLT6SMDS  
WITH LIGHTS ADJUSTED AT 45 DEGREE TILT  
AND MAX HEIGHT OF 23'  
ACTUAL TRAILER SELECTION SHALL VARY

FACILITY EQUIPMENT LIST	
1	FRACK TANKS (500 BARREL)
2	PUMP DOWN
3	WATER MANIFOLD
4	7" IRON
5	WIRELINE
6	FRAC DATA
7	FRAC CHEMICALS
8	FRAC BLENDING
9	FRAC HHP
10	SAND PAD
11	FUEL
12	MINION TANK (6,500 BBL)
13	MINION TANK (10,000 BBL)

NOTES:  
 A. THIS DRAWING IS BASED ON TYPICAL COMPLETIONS LAYOUT AND IS SUBJECT TO VARIATIONS IN DESIGN AND LAYOUT. EACH LAYOUT IS DESIGNED BY OTHERS BUT SHALL NOT EXCEED THE FIXTURE COUNTS LISTED ON THIS DRAWING.  
 B. ALL LIGHT FIXTURES AND INSTALLATION MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST ISSUE OF LOCAL AND NATIONAL ELECTRICAL CODES, ELECTRICAL SPECIFICATIONS AND DRAWINGS.  
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REFERENCE DRAWINGS		REVISIONS						
DWG NO.	TITLE	REV	DESCRIPTION	DATE	BY	CHK	ENG	APR
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		▲	ISSUED FOR REVIEW	02/17/23	LTD	RJM	LTD	RJM

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**INCLINE**  
ENERGY PARTNERS

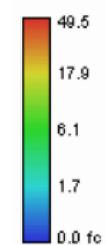
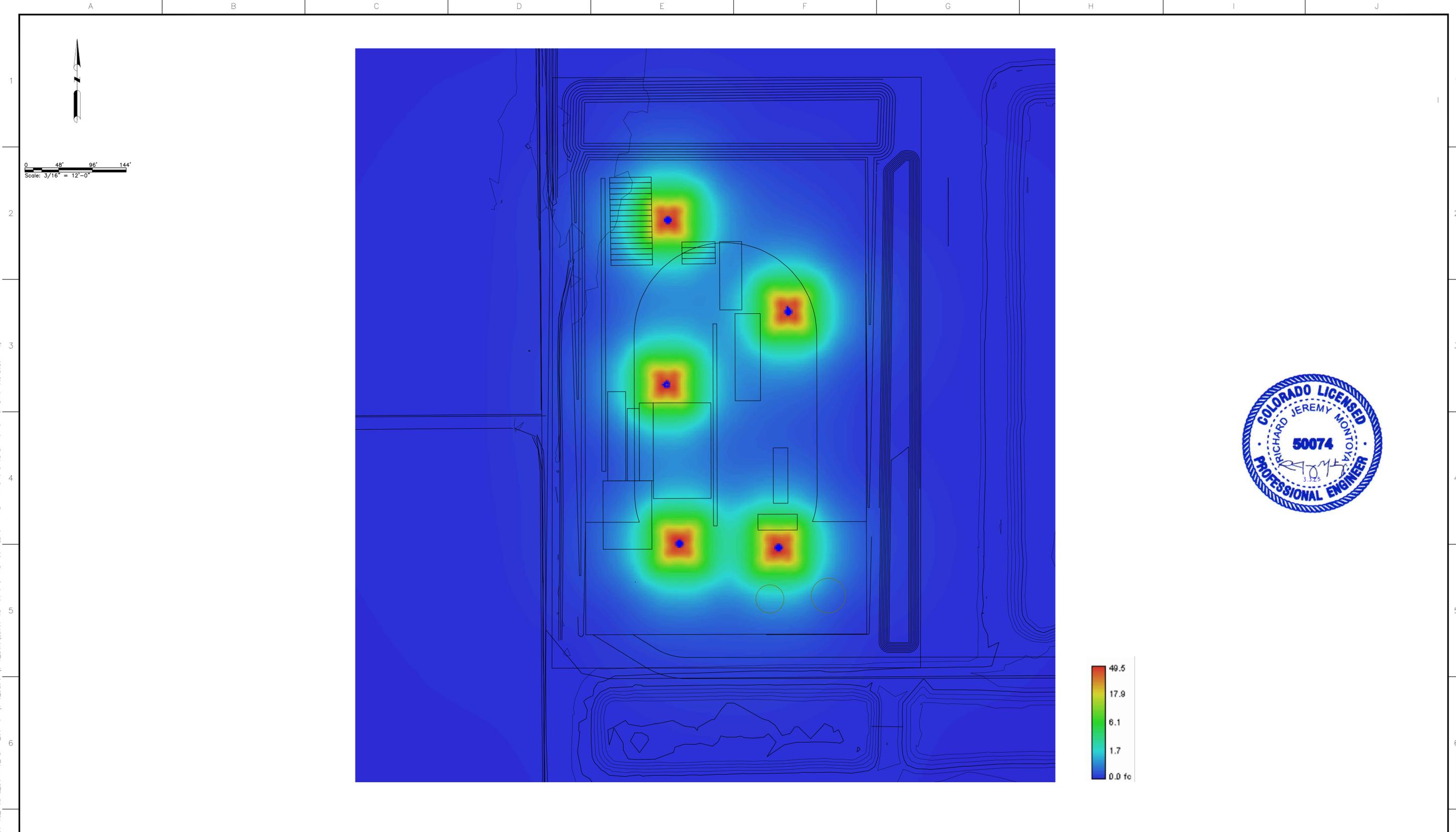
INCLINE ENERGY PARTNERS  
DITTMER PAD  
COMPLETIONS  
LIGHTING LAYOUT

SCALE: (FORMATTED 22X34)  
3/16"=12'-0"

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22059-02-73011

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NOTES:  
 A. HEAT MAP INTENDED TO SHOW VISUAL REPRESENTATION OF CONTENT SHOWN ON OTHER DRAWINGS ASSOCIATED WITH THIS PHASE OF SITE DEVELOPMENT. REFER TO DRAWING -73011 FOR ADDITIONAL DETAILS ON LIGHT FIXTURE LOCATIONS, FIXTURE TYPES, AND EQUIPMENT CALLOUTS.

REFERENCE DRAWINGS		REVISIONS						
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		▲	ISSUED FOR PERMIT	03/03/23	LTD	RJM	LTD	RJM
		▲	ISSUED FOR REVIEW	02/17/23	LTD	RJM	LTD	RJM

**HALKER**  
ENGINEERED SOLUTIONS

**INCLINE**  
ENERGY PARTNERS

INCLINE ENERGY PARTNERS  
DITTMER PAD  
COMPLETIONS  
LIGHTING LAYOUT - HEATMAP

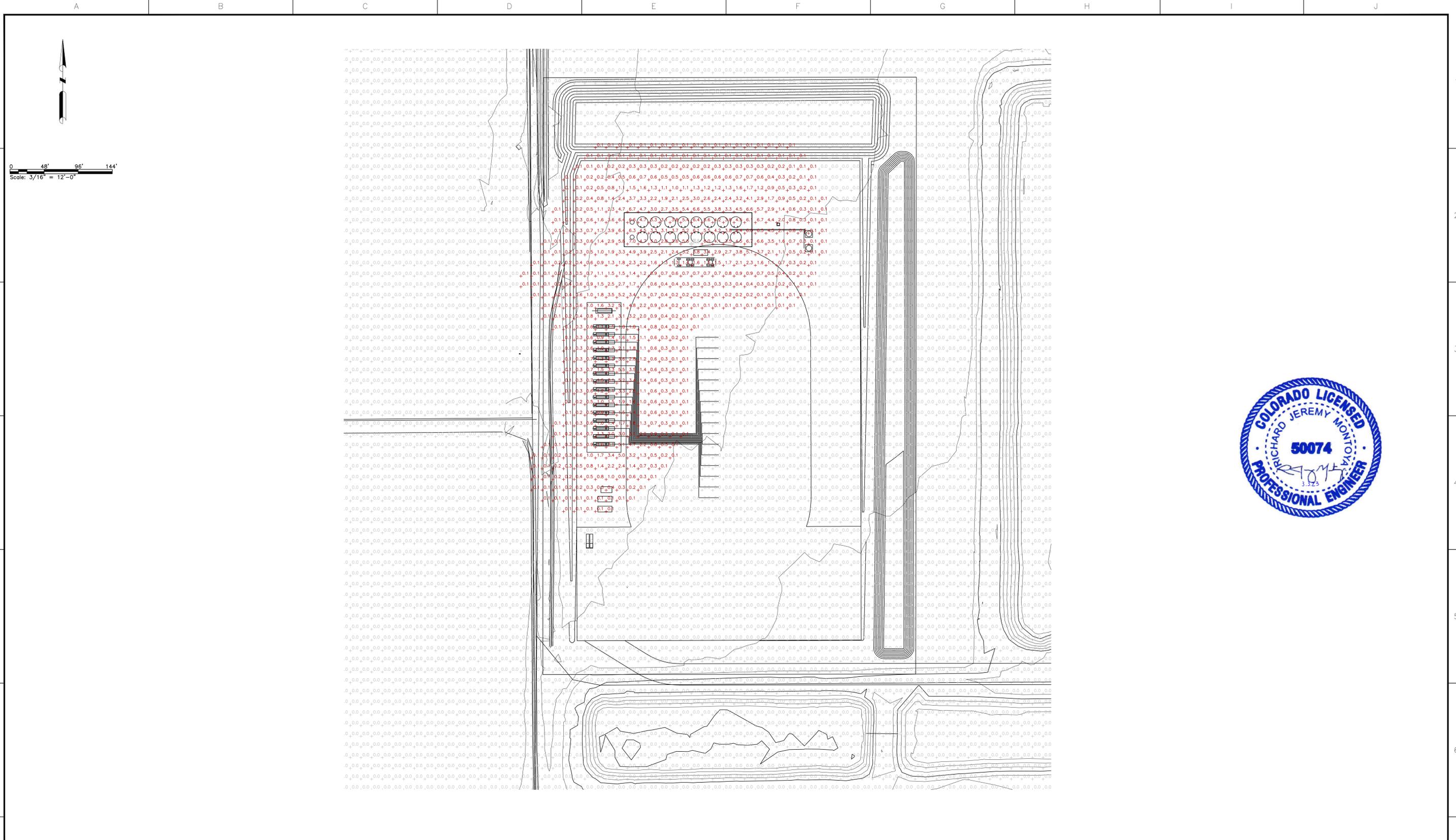
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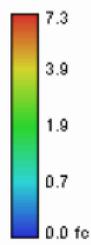
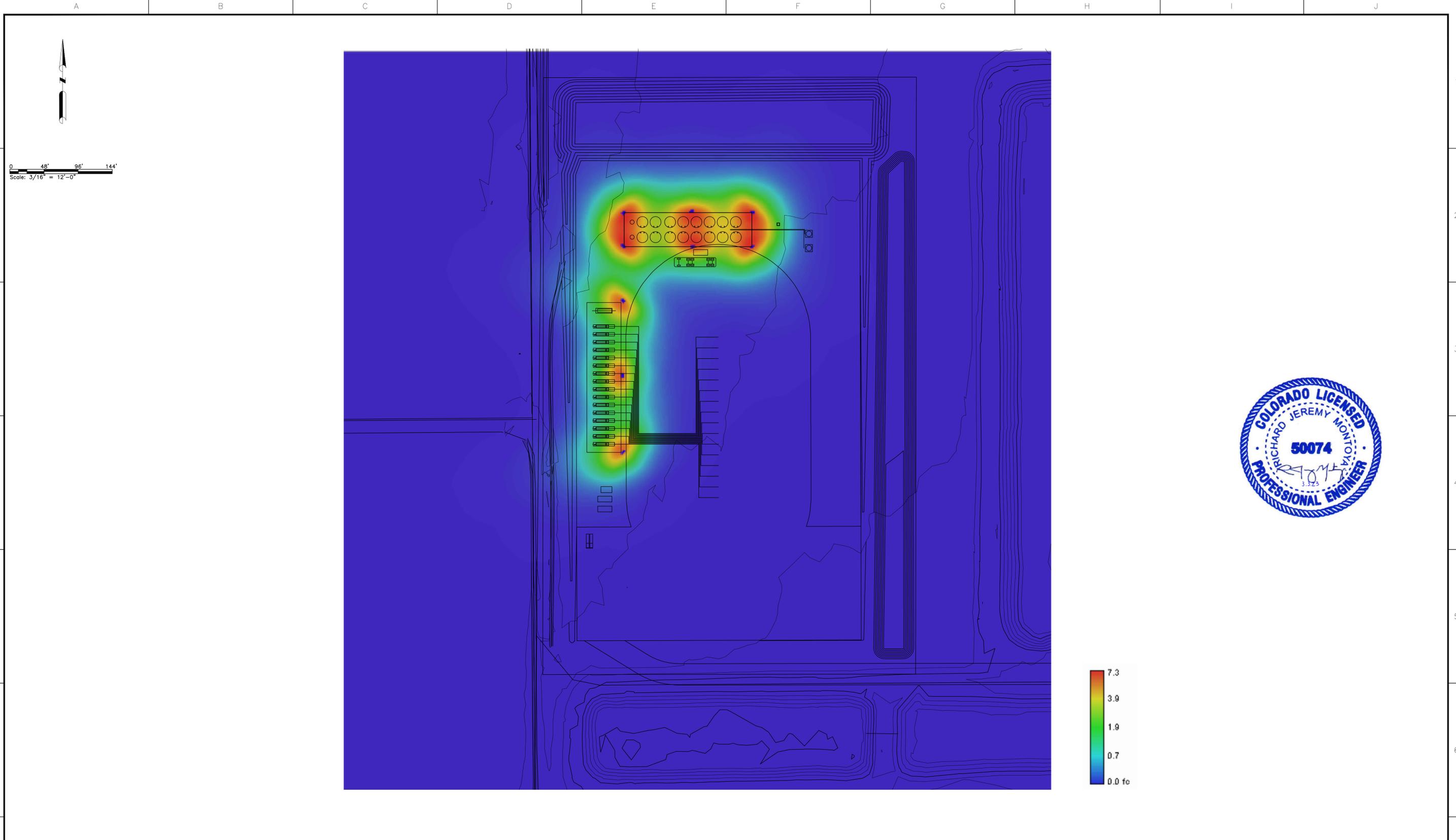
**NOTES:**  
 A. THIS DRAWING IS INTENDED TO SHOW FOOTCANDLE POINT CALCULATING FOR THIS PHASE OF SITE DEVELOPMENT. REFER TO DRAWING -73021 FOR ADDITIONAL DETAILS ON LIGHT FIXTURE LOCATIONS, FIXTURE TYPES, AND EQUIPMENT CALLOUTS.

REFERENCE DRAWINGS		REVISIONS						
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INCLINE ENERGY PARTNERS DITTMER PAD PRODUCTION LIGHTING POINT CALCULATIONS			
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A B C D E F G H I J

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NOTES:  
 A. HEAT MAP INTENDED TO SHOW VISUAL REPRESENTATION OF CONTENT SHOWN ON OTHER DRAWINGS ASSOCIATED WITH THIS PHASE OF SITE DEVELOPMENT. REFER TO DRAWING -73021 FOR ADDITIONAL DETAILS ON EQUIPMENT CALLOUTS.

REFERENCE DRAWINGS		REVISIONS						
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		▲	ISSUED FOR REVIEW	02/28/23	LTD	RJM	LTD	RJM
		▲	ISSUED FOR REVIEW	02/17/23	LTD	RJM	LTD	RJM

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ENERGY PARTNERS

INCLINE ENERGY PARTNERS  
DITTMER PAD  
PRODUCTION  
LIGHTING LAYOUT - HEATMAP

SCALE: (FORMATTED 22X34)  
3/16"=12'-0"

DRAWING NO.  
22059-01-73023

A B C D E F G H I J

# Dialight



## SafeSite® LED Floodlight - UL 844 for Indoor & Outdoor Hazardous Applications



APRIL 2021



## Features & Benefits

- 10 year warranty
- L70 rated for >100,000 hours @ 25°C ambient
- DLC listed
- Instant on/off operation
- Universal input (100-277 VAC, 50/60Hz or 347/480 VAC, 60Hz)
- Superior color rendering index compared to HPS, LPS, MH
- Resistant to shock and vibration
- Isolated wiring compartment
- Integral safety straps
- Temperature compensation technology for longer life

## Application

The SafeSite® LED Floodlight represents the future of energy efficient facility illumination for hazardous applications worldwide. The fixture consumes at least 50% less energy than traditional HID light sources, while reducing maintenance and improving light quality. This light incorporates both cutting edge LED technology along with proprietary optics to achieve flood lighting comparable with other traditional light sources.

# SafeSite® LED Floodlight - UL 844

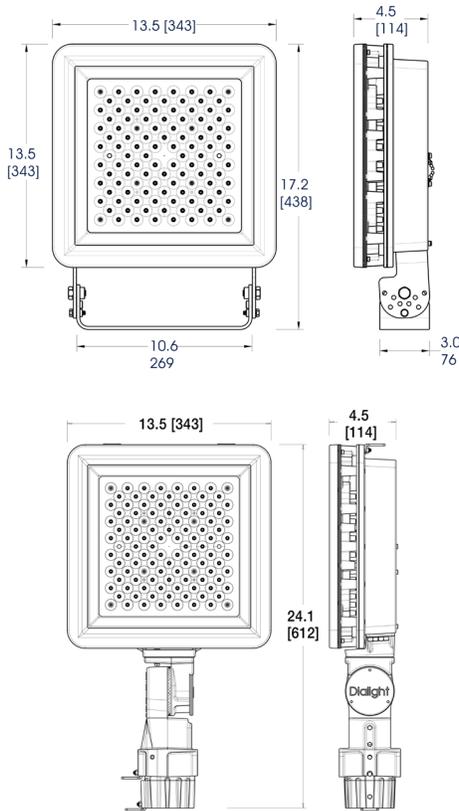
## Standard Model & Slipfitter Model



Standard Models



Slipfitter Models



Dimensions in inches [mm]

Temperature Ratings	
Ambient Temperature Range T4A Temperature Code	Ambient Temperature Range T5 Temperature Code
15,000 - 13,500lm models	11,500 - 10,750lm models
-40°F to +149°F (-40°C to +65°C)	-40°F to +149°F (-40°C to +65°C)

### Certifications & Ratings

- Class I, Div. 2 Groups A, B, C & D
- Class II, Div. 1 Groups E, F & G
- Class II, Div. 2 Groups F & G
- Class III
- UL 844
- CSA C22.2 No. 137
- NEMA 4X
- IP66/67
- IK07 (Glass) / IK10 (Polycarbonate)
- ABS # 14-HS1209391-PDA (Trunnion mount models only)

### Mechanical Information:

- Fixture weight:** 30 lb (13.6 kg)
- Shipping weight:** 35 lb (15.9 kg)
- EPA (Sq.ft):** 1.66
- Mounting:**
  - 304 Stainless Steel trunnion mount bracket (standard)
  - Integral slipfitter (optional for CID2 only)
- Entries:** (2) 3/4" NPT cable entries (Trunnion mount models only)

### Electrical Specifications:

- Operating voltage:** 100-277 VAC, 50/60Hz  
347-480 VAC, 50/60Hz
- Power consumption:** See table
- Operating temp:** -40°F to +149°F (-40°C to +65°C)
- Noise requirement /EMC:** EN 55015 - conducted and radiated  
FCC Title 47, Subpart B, Section 15, Class A device. RF Immunity; 10V/m, 80MHz-1GHz
- Surge protection:** EN61000-4-5  
Verified up to 6kV/2ohms at an independent test laboratory protection devices capable of 20kV
- THD:** < 20%
- Power factor:** > 0.9

### Construction:

- Housing:** Copper-free aluminum
- Finish:** Superior dual coat finish
  - sealed polyester topcoat
  - chemical resistant epoxy primer
- Lens:** Tempered glass  
Polycarbonate

### Photometric Information:

- CRI:** 75
- CCT:** 5000K (cool white)  
4000K (neutral white)
- NEMA Patterns:**
  - 7x6 - Asymmetrical (140° x 115°)
  - 6x7 - Asymmetrical (115° x 140°)
  - 6 - Very wide (115°)
  - 5 - Wide (93°)
  - 4 - Medium (52°)
  - 2 - Narrow (23°)

**IES files:** Available at [www.dialight.com](http://www.dialight.com)

All values typical unless otherwise stated (tolerance +/- 10%)

**WARNING - INSTALLATION & SECONDARY RETENTION.** Use of any Dialight products without proper installation (including secondary retention / netting) and periodic inspections could cause severe injury or death. Dialight recommends that all installations should use secondary retention / netting (appropriate to the installation environment) where applicable. It is the exclusive responsibility of the contractor, installer and/or end-user to: (a) determine the suitability of the product for its intended application; and, (b) ensure that the product is safely installed (with secondary retention / netting where appropriate) and in compliance with all applicable laws and regulations. To the extent permissible under applicable laws, Dialight disclaims all liability for personal injury and/or other damage resulting from any dislodgment or other dislocation of its products.

# SafeSite® LED Floodlight - UL 844

## Mounting Accessories



### HZXSAFECBLS

- Safety cable kit
- Kit includes: (2) Safety cables



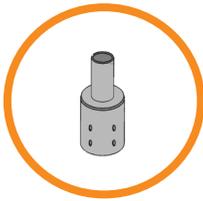
### FLX-1TPT-20DB<sup>1</sup>

- Tenon pole topper, 2-3/8" mount (Trunnion mount models only)
- Kit includes: Tenon topper, pole set screws, and mounting hardware



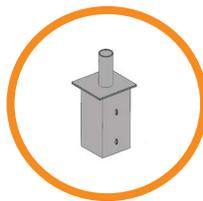
### FLX-1RAB-20DB

- Right angle mounting bracket for 2-3/8" light mount
- Kit includes: Right angle bracket



### FLX-3RPA-20DB FLX-4RPA-20DB

- Reducer for 3" or 4" OD round pole top to 2-3/8" light mount
- Kit includes: Reducer pole set screws



### FLX-4SPA-20DB FLX-5SPA-20DB FLX-6SPA-20DB

- Internal tenon adapter for 4", 5" or 6" square pole top to 2-3/8" light mount
- Kit includes: Adapter



### FLX-2LBH-20DB

- Bull horn for 2 lights, 2-3/8" mount, 21" spacing
- Kit includes: Bull horn, pole set screws



### FLX-3LBH-20DB

- Bull horn for 3 lights, 2-3/8" mount, 21" spacing
- Kit includes: Bull horn, pole set screws



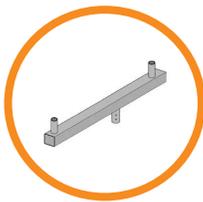
### FLX-4LBH-20DB

- Bull horn for 4 lights, 2-3/8" mount, 21" spacing
- Kit includes: Bull horn, pole set screws



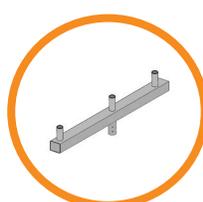
### FLX-4RBH-20DB

- Bull horn for 4 lights, 2-3/8" mount, 21" spacing
- Kit includes: Bull horn, pole set screws



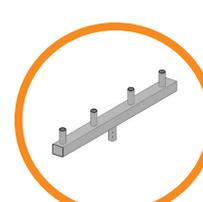
### FLX-2RSR-20DB

- Bull horn for 2 lights, 2-3/8" mount, 21" spacing
- Kit includes: Bull horn, pole set screws



### FLX-3RSR-20DB

- Bull horn for 3 lights, 2-3/8" mount, 21" spacing
- Kit includes: Bull horn, pole set screws



### FLX-4RSR-20DB

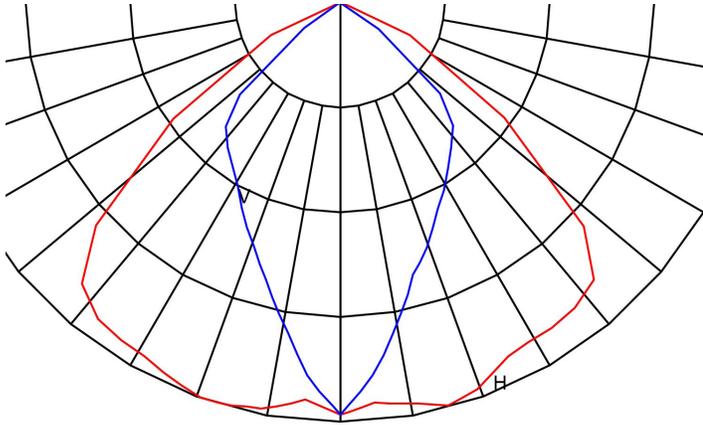
- Bull horn for 4 lights, 2-3/8" mount, 21" spacing
- Kit includes: Bull horn, pole set screws

Brackets and adapters require the integral slipfitter models or tenon pole topper (FLX-1TPT-20DB) to mount floodlight. Tenon pole topper sold separately.

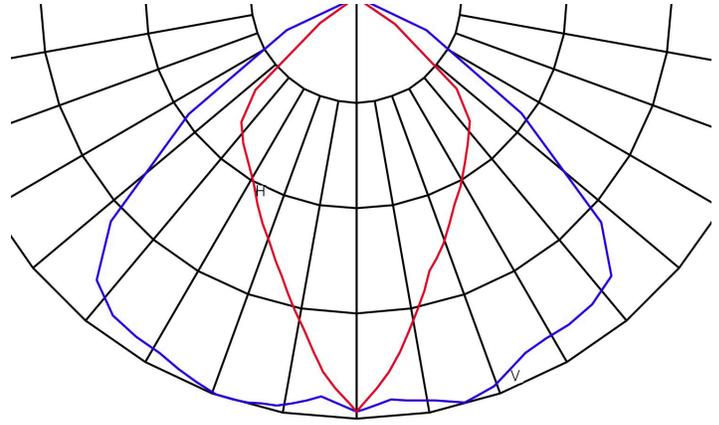
# SafeSite® LED Floodlight - UL 844

## Beam Distribution Patterns

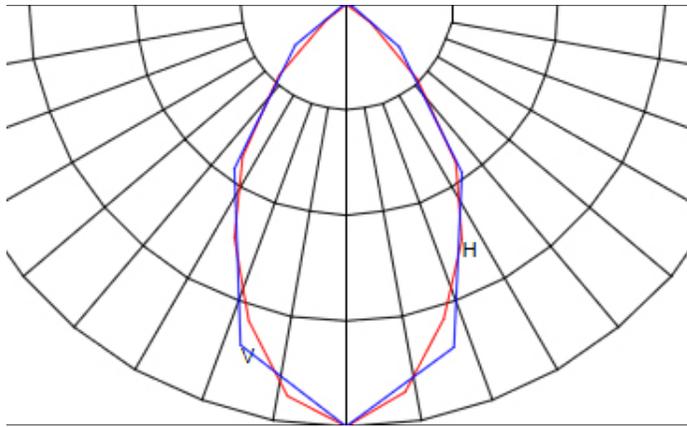
NEMA 7x6 - Field angle = 140° x 115°



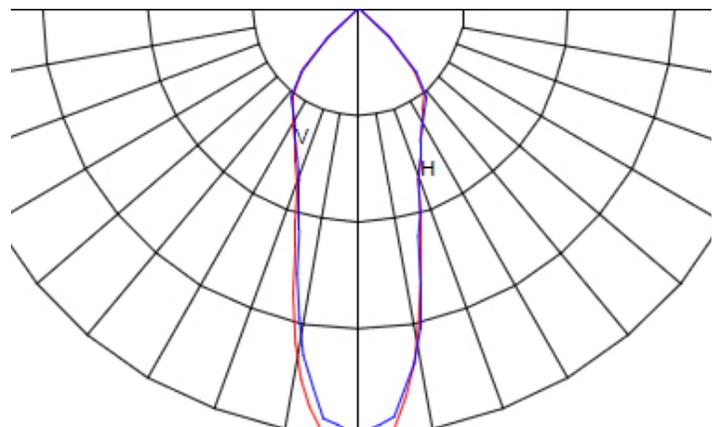
NEMA 6x7 - Field angle = 115° x 140°



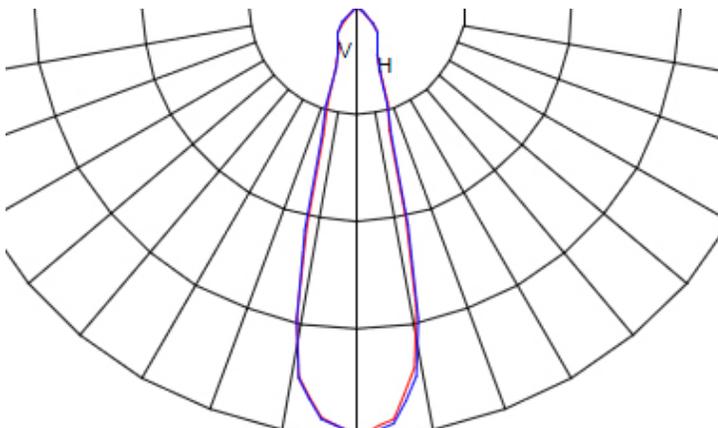
NEMA 6 - Field angle = 115°



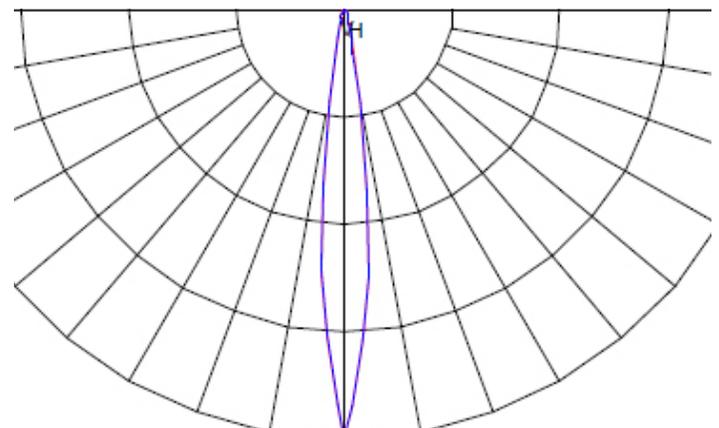
NEMA 5 - Field angle = 93°



NEMA 4 - Field angle = 52°



NEMA 2 - Field angle = 23°



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# SafeSite® LED Floodlight - UL 844

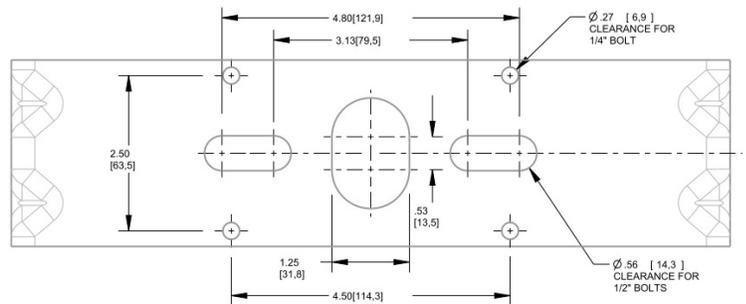
## Mounting Options

### Standard Models



Bracket has locking positions at 0°, (±) 22.5°, (±) 45°, (±) 67.5°, and 90°

Factory Installed Mounting Bracket

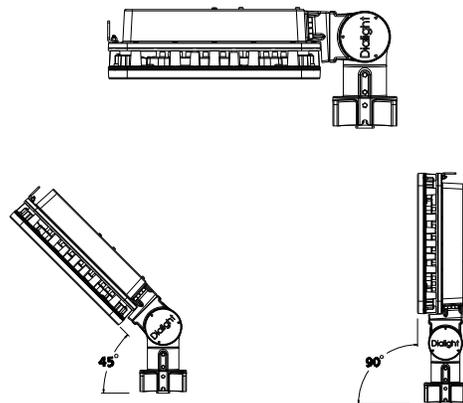


### Slipfitter Models



Mount to 2" round poles (2-3/8" OD)  
 Integrated Slipfitter has locking positions from 0°-180°, in 7.5° increments  
 Gasketed wiring compartment

0°, 45°, 90° Angles

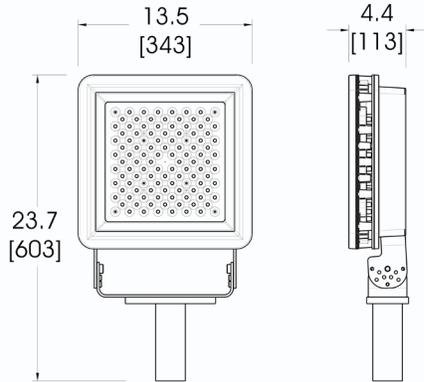


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# SafeSite® LED Floodlight - UL 844

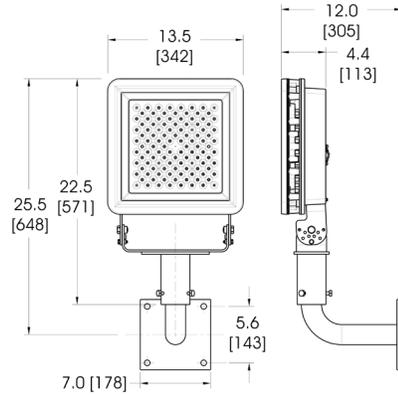
## Mounting Options

FLX-1TPT-20DB



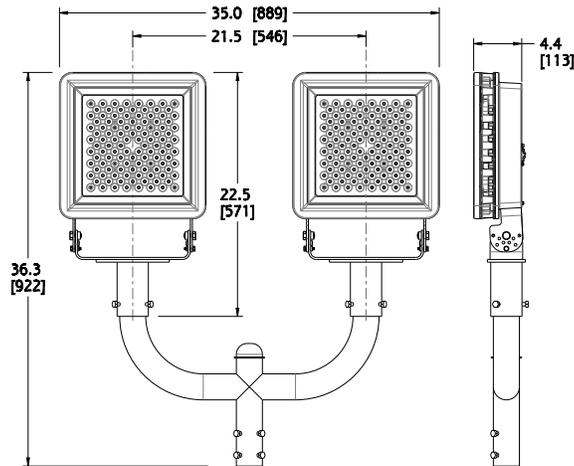
(Fixture and bracket sold separately)

FLX-1RAB-20DB



(Fixture and bracket sold separately)

FLX-2LBH-20DB



(Fixture and bracket sold separately)

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# SafeSite® LED Floodlight - UL 844

## Ordering Information - Standard Model

Classifications: CID2 A, B, C, D • CIID1 E, F, G • CIID2 F, G • CIII

Legacy Part Number	New Part Number	CID2	CIID1	CIID2	CIII	Fixture Lumens	Wattage	lm/W	Voltage	Beam Distribution
<b>100-277 VAC Models - Glass Lens, 5000K</b>										
FLD466NC4NG	FLD76B2BNTNNGN	•	•	•	•	15,000	135	111	100-277 VAC	NEMA 6 (115°)
FLD476NC4NG	FLD77B2BNTNNGN	•	•	•	•	14,750	135	109	100-277 VAC	NEMA 7x6 (140° x 115°)
FLD467NC4NG	FLD78B2BNTNNGN	•	•	•	•	14,750	135	109	100-277 VAC	NEMA 6x7 (115° x 140°)
FLD455NC4NG	FLD75B2BNTNNGN	•	•	•	•	14,500	140	104	100-277 VAC	NEMA 5 (93°)
FLD444NC4NG	FLD74B2BNTNNGN	•	•	•	•	14,500	140	104	100-277 VAC	NEMA 4 (52°)
FLD422NC4NG	FLD72B2BNTNNGN	•	•	•	•	13,500	140	96	100-277 VAC	NEMA 2 (23°)
FLD276NC2NG	FLD77B2ANTNNGN	•	•	•	•	11,500	106	108	100-277 VAC	NEMA 7x6 (140° x 115°)
FLD267NC2NG	FLD78B2ANTNNGN	•	•	•	•	11,500	106	108	100-277 VAC	NEMA 6x7 (115° x 140°)
FLD266NC2NG	FLD76B2ANTNNGN	•	•	•	•	11,250	106	106	100-277 VAC	NEMA 6 (115°)
FLD255NC2NG	FLD75B2ANTNNGN	•	•	•	•	11,000	106	104	100-277 VAC	NEMA 5 (93°)
FLD244NC2NG	FLD74B2ANTNNGN	•	•	•	•	10,500	106	99	100-277 VAC	NEMA 4 (52°)
FLD222NC2NG	FLD72B2ANTNNGN	•	•	•	•	10,750	106	101	100-277 VAC	NEMA 2 (23°)
<b>100-277 VAC Models - Polycarbonate Lens, 5000K</b>										
FLD466NC4NP	FLD46B2BNTNNGN	•				14,000	135	104	100-277 VAC	NEMA 6 (115°)
FLD476NC4NP	FLD47B2BNTNNGN	•				13,750	135	102	100-277 VAC	NEMA 7x6 (140° x 115°)
FLD467NC4NP	FLD48B2BNTNNGN	•				13,750	135	102	100-277 VAC	NEMA 6x7 (115° x 140°)
FLD455NC4NP	FLD45B2BNTNNGN	•				13,500	140	96	100-277 VAC	NEMA 5 (93°)
FLD444NC4NP	FLD44B2BNTNNGN	•				13,500	140	96	100-277 VAC	NEMA 4 (52°)
FLD422NC4NP	FLD42B2BNTNNGN	•				12,500	140	89	100-277 VAC	NEMA 2 (23°)
FLD276NC2NP	FLD47B2ANTNNGN	•				10,500	106	99	100-277 VAC	NEMA 7x6 (140° x 115°)
FLD267NC2NP	FLD48B2ANTNNGN	•				10,500	106	99	100-277 VAC	NEMA 6x7 (115° x 140°)
FLD266NC2NP	FLD46B2ANTNNGN	•				10,250	106	97	100-277 VAC	NEMA 6 (115°)
FLD255NC2NP	FLD45B2ANTNNGN	•				10,000	106	94	100-277 VAC	NEMA 5 (93°)
FLD244NC2NP	FLD44B2ANTNNGN	•				9,500	106	90	100-277 VAC	NEMA 4 (52°)
FLD222NC2NP	FLD42B2ANTNNGN	•				9,750	106	92	100-277 VAC	NEMA 2 (23°)
<b>347-480 VAC Models - Glass Lens Only, 5000K</b>										
FLD466NC5NG	FLD76B5BNTNNGN	•	•	•	•	15,000	135	111	347/480 VAC	NEMA 6 (115°)
FLD476NC5NG	FLD77B5BNTNNGN	•	•	•	•	14,750	135	109	347/480 VAC	NEMA 7x6 (140° x 115°)
FLD467NC5NG	FLD78B5BNTNNGN	•	•	•	•	14,750	135	109	347/480 VAC	NEMA 6x7 (115° x 140°)
FLD455NC5NG	FLD75B5BNTNNGN	•	•	•	•	14,500	140	104	347/480 VAC	NEMA 5 (93°)
FLD444NC5NG	FLD74B5BNTNNGN	•	•	•	•	14,500	140	104	347/480 VAC	NEMA 4 (52°)
FLD422NC5NG	FLD72B5BNTNNGN	•	•	•	•	13,500	140	96	347/480 VAC	NEMA 2 (23°)
FLD276NC5NG	FLD77B5ANTNNGN	•	•	•	•	11,750	112	105	347/480 VAC	NEMA 7x6 (140° x 115°)
FLD267NC5NG	FLD78B5ANTNNGN	•	•	•	•	11,750	112	105	347/480 VAC	NEMA 6x7 (115° x 140°)
FLD266NC5NG	FLD76B5ANTNNGN	•	•	•	•	11,250	112	100	347/480 VAC	NEMA 6 (115°)
FLD255NC5NG	FLD75B5ANTNNGN	•	•	•	•	10,000	112	89	347/480 VAC	NEMA 5 (93°)
FLD244NC5NG	FLD74B5ANTNNGN	•	•	•	•	10,000	112	89	347/480 VAC	NEMA 4 (52°)
FLD222NC5NG	FLD72B5ANTNNGN	•	•	•	•	10,000	112	89	347/480 VAC	NEMA 2 (23°)

All values typical unless otherwise stated (tolerance +/- 10%).

Part numbers listed in the table above are powder coated gray. For trunnion mount models with bronze powder coat replace the 10th character with Z.

Part numbers listed in the table above are cool white. For neutral white models, replace the 8th character with an N.

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# SafeSite® LED Floodlight - UL 844

## Ordering Information - Slipfitter Model

Classifications: CID2 A, B, C, D

Legacy Part Number	New Part Number	CID2	CIID1	CIID2	CIID3	Fixture Lumens	Wattage	lm/W	Voltage	Beam Distribution
<b>100-277 VAC Models - Glass Lens, 5000K</b>										
FLD466SC4NG	FLD76B2BNSNNGN	•				15,000	135	111	100-277 VAC	NEMA 6 (115°)
FLD476SC4NG	FLD77B2BNSNNGN	•				14,750	135	109	100-277 VAC	NEMA 7x6 (140° x 115°)
FLD467SC4NG	FLD78B2BNSNNGN	•				14,750	135	109	100-277 VAC	NEMA 6x7 (115° x 140°)
FLD455SC4NG	FLD75B2BNSNNGN	•				14,500	140	104	100-277 VAC	NEMA 5 (93°)
FLD444SC4NG	FLD74B2BNSNNGN	•				14,500	140	104	100-277 VAC	NEMA 4 (52°)
FLD422SC4NG	FLD72B2BNSNNGN	•				13,500	140	96	100-277 VAC	NEMA 2 (23°)
FLD276SC2NG	FLD77B2ANSNNGN	•				11,500	106	108	100-277 VAC	NEMA 7x6 (140° x 115°)
FLD267SC2NG	FLD78B2ANSNNGN	•				11,500	106	108	100-277 VAC	NEMA 6x7 (115° x 140°)
FLD266SC2NG	FLD76B2ANSNNGN	•				11,250	106	106	100-277 VAC	NEMA 6 (115°)
FLD255SC2NG	FLD75B2ANSNNGN	•				11,000	106	104	100-277 VAC	NEMA 5 (93°)
FLD244SC2NG	FLD74B2ANSNNGN	•				10,500	106	99	100-277 VAC	NEMA 4 (52°)
FLD222SC2NG	FLD72B2ANSNNGN	•				10,750	106	101	100-277 VAC	NEMA 2 (23°)
<b>100-277 VAC Models - Polycarbonate Lens, 5000K</b>										
FLD466SC4NP	FLD46B2BNSNNGN	•				14,000	135	104	100-277 VAC	NEMA 6 (115°)
FLD476SC4NP	FLD47B2BNSNNGN	•				13,750	135	102	100-277 VAC	NEMA 7x6 (140° x 115°)
FLD467SC4NP	FLD48B2BNSNNGN	•				13,750	135	102	100-277 VAC	NEMA 6x7 (115° x 140°)
FLD455SC4NP	FLD45B2BNSNNGN	•				13,500	140	96	100-277 VAC	NEMA 5 (93°)
FLD444SC4NP	FLD44B2BNSNNGN	•				13,500	140	96	100-277 VAC	NEMA 4 (52°)
FLD422SC4NP	FLD42B2BNSNNGN	•				12,500	140	89	100-277 VAC	NEMA 2 (23°)
FLD276SC2NP	FLD47B2ANSNNGN	•				10,500	106	99	100-277 VAC	NEMA 7x6 (140° x 115°)
FLD267SC2NP	FLD48B2ANSNNGN	•				10,500	106	99	100-277 VAC	NEMA 6x7 (115° x 140°)
FLD266SC2NP	FLD46B2ANSNNGN	•				10,250	106	97	100-277 VAC	NEMA 6 (115°)
FLD255SC2NP	FLD45B2ANSNNGN	•				10,000	106	94	100-277 VAC	NEMA 5 (93°)
FLD244SC2NP	FLD44B2ANSNNGN	•				9,500	106	90	100-277 VAC	NEMA 4 (52°)
FLD222SC2NP	FLD42B2ANSNNGN	•				9,750	106	92	100-277 VAC	NEMA 2 (23°)
<b>347-480 VAC Models - Glass Lens Only, 5000K</b>										
FLD466SC5NG	FLD76B5BNSNNGN	•				15,000	135	111	347/480 VAC	NEMA 6 (115°)
FLD476SC5NG	FLD77B5BNSNNGN	•				14,750	135	109	347/480 VAC	NEMA 7x6 (140° x 115°)
FLD467SC5NG	FLD78B5BNSNNGN	•				14,750	135	109	347/480 VAC	NEMA 6x7 (115° x 140°)
FLD455SC5NG	FLD75B5BNSNNGN	•				14,500	140	104	347/480 VAC	NEMA 5 (93°)
FLD444SC5NG	FLD74B5BNSNNGN	•				14,500	140	104	347/480 VAC	NEMA 4 (52°)
FLD422SC5NG	FLD72B5BNSNNGN	•				13,500	140	96	347/480 VAC	NEMA 2 (23°)
FLD276SC5NG	FLD77B5ANSNNGN	•				11,750	112	105	347/480 VAC	NEMA 7x6 (140° x 115°)
FLD267SC5NG	FLD78B5ANSNNGN	•				11,750	112	105	347/480 VAC	NEMA 6x7 (115° x 140°)
FLD266SC5NG	FLD76B5ANSNNGN	•				11,250	112	100	347/480 VAC	NEMA 6 (115°)
FLD255SC5NG	FLD75B5ANSNNGN	•				10,000	112	89	347/480 VAC	NEMA 5 (93°)
FLD244SC5NG	FLD74B5ANSNNGN	•				10,000	112	89	347/480 VAC	NEMA 4 (52°)
FLD222SC5NG	FLD72B5ANSNNGN	•				10,000	112	89	347/480 VAC	NEMA 2 (23°)

All values typical unless otherwise stated (tolerance +/- 10%).

Part numbers listed in the table above are cool white. For neutral white models, replace the 8th character with an N.

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Fax: +55 (19) 3113-4300  
brasil@dialight.com

### WARNING / DISCLAIMERS:

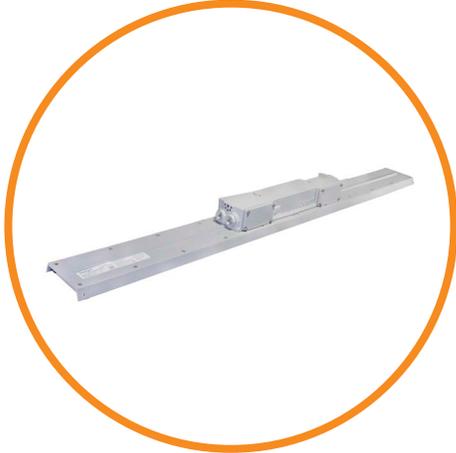
**Installation & secondary retention.** The use of this product without proper installation (including secondary retention / netting) and periodic inspections, could cause severe injury or death. Dialight recommends that all installations should use secondary retention / netting (appropriate to the installation environment) as applicable. Dialight products are intended for ultimate purchase, installation and operation by knowledgeable persons trained in the functional assessment, installation, use and maintenance of such products and all customers (including but not limited to end customers) are responsible for assessing the suitability of Dialight products for any given installation requirement. It is the exclusive responsibility of the contractor, installer and/or end-user to: (a) determine the suitability of the product for its intended application; and, (b) ensure that the product is safely installed (with secondary retention / netting as appropriate) and in compliance with all applicable laws and regulations.

**Product specifications & warranties.** All product information provided is, to the best of Dialight's knowledge, accurate as of the date of publication. All values and performance data herein are design or typical values when measured under laboratory conditions. The information herein is subject to change without notice. The products / software detailed herein are subject to applicable warranties and terms and conditions of use/purchase. Unless agreed otherwise in writing by an authorized representative of Dialight, Dialight does not represent that its products are fit for any particular purpose and accepts no liability for the installation and/or unauthorised use of its products. When ordering, refer to [www.dialight.com](http://www.dialight.com) for current versions of: (a) relevant product documentation (including relevant product data sheets); (b) Dialight terms and conditions of sale; and, (c) the relevant product warranties. To the extent that any contract is deemed formed between Dialight and the purchaser of Dialight products and/or an end-user, versions of documents available at [www.dialight.com](http://www.dialight.com) as at the date of sale shall be the versions incorporated therein. In the event of any discrepancy between this document and information provided at [www.dialight.com](http://www.dialight.com), the latter shall prevail.

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## Vigilant® LED Linear

Low Profile - 10 year warranty

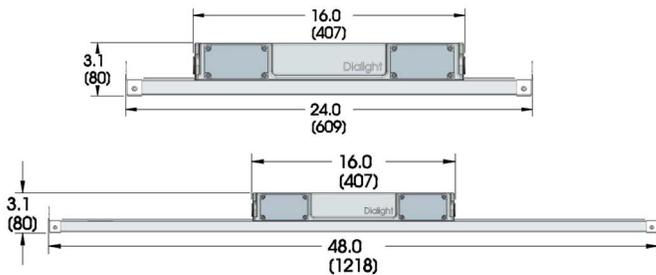


### Certifications & Ratings

- UL 1598/A<sup>1</sup>
- CSA C22.2 No. 250<sup>1</sup>
- IP66/67
- NEMA 4X
- 2000 PSI hose-down rating<sup>2</sup>
- DLC Premium & Standard

<sup>1</sup>ETL listed

<sup>2</sup>Internally tested



Dimensions in inches [mm]

### Mechanical Information:

<b>Fixture weight:</b>	4' - 11 lb (5.0 kg) 2' - 8 lb (3.6 kg)
<b>Shipping weight:</b>	4' - 12 lb (5.4 kg) 2' - 9 lb (4.1 kg)
<b>Mounting:</b>	(4) 3/4" NPT openings Optional swivel bracket - LPXW4 Optional low profile bracket - LPXW4LP

### Variable Dimming:

<b>Variable dimming control:</b>	0-10 VDC
<b>Dimming range:</b>	10 VDC = 100% light output 0 VDC = 5% light output

### Electrical Specifications:

<b>Operating voltage:</b>	100-277 VAC, 50/60Hz 120-250 VDC
<b>Power consumption:</b>	See ordering information
<b>Operating temp:</b>	-40°F to +149°F (-40°C to +65°C)
<b>EMC:</b>	FCC Title 47, Subpart B, Section 15, Class A device. RF Immunity; 10V/m, 80MHz-1GHz
<b>Surge protection:</b>	EN 61000-4-5 6 kV line-to-line 6 kV line-to-ground
<b>Harmonics:</b>	IEC 61000-3-2 Class C ATHD<20%
<b>Power factor:</b>	> 0.9

### Construction:

<b>Finish:</b>	Superior dual coat finish - Sealed polyester topcoat - Chemical resistant epoxy primer
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<b>Lens:</b>	Polycarbonate
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### Photometric Information:

<b>CRI:</b>	80
<b>CCT:</b>	5000K (cool white) 4000K (neutral white)
<b>IES files:</b>	Available at <a href="http://www.dialight.com">www.dialight.com</a>

All values typical unless otherwise stated (tolerance +/- 10%)

**WARNING - INSTALLATION & SECONDARY RETENTION.** Use of any Dialight products without proper installation (including secondary retention / netting) and periodic inspections could cause severe injury or death. Dialight recommends that all installations should use secondary retention / netting (appropriate to the installation environment) where applicable. It is the exclusive responsibility of the contractor, installer and/or end-user to: (a) determine the suitability of the product for its intended application; and, (b) ensure that the product is safely installed (with secondary retention / netting where appropriate) and in compliance with all applicable laws and regulations. To the extent permissible under applicable laws, Dialight disclaims all liability for personal injury and/or other damage resulting from any dislodgment or other dislocation of its products.

# Ordering Information

Vigilant® LED Linear - Low Profile - 10 year warranty



Part Number (x = CCT placeholder)	Length	CRI	Wattage	Fixture Lumens		lm/W		Voltage	Lens	Beam Distribution
				5000K	4000K	5000K	4000K			
LKU-4M(x)2-9DNN-NGN	4'	80	70	9,600	9,300	137	132	100-277 VAC / 120-250 VDC	Clear Polycarbonate	Medium
LKU-5M(x)2-9DNN-NGN	4'	80	70	8,800	8,500	125	121	100-277 VAC / 120-250 VDC	Diffused Polycarbonate	Medium
LKU-4W(x)2-9DNN-NGN	4'	80	70	9,600	9,300	137	132	100-277 VAC / 120-250 VDC	Clear Polycarbonate	Wide
LKU-4M(x)2-7DNN-NGN	4'	80	52	7,250	6,950	139	134	100-277 VAC / 120-250 VDC	Clear Polycarbonate	Medium
LKU-5M(x)2-7DNN-NGN	4'	80	52	6,550	6,250	126	120	100-277 VAC / 120-250 VDC	Diffused Polycarbonate	Medium
LKU-4W(x)2-7DNN-NGN	4'	80	52	7,250	6,950	139	134	100-277 VAC / 120-250 VDC	Clear Polycarbonate	Wide
LJU-4M(x)2-5DNN-NGN	2'	80	37	4,750	4,500	128	122	100-277 VAC / 120-250 VDC	Clear Polycarbonate	Medium
LJU-5M(x)2-5DNN-NGN	2'	80	37	4,450	4,200	120	114	100-277 VAC / 120-250 VDC	Diffused Polycarbonate	Medium
LJU-4W(x)2-5DNN-NGN	2'	80	37	4,750	4,500	128	122	100-277 VAC / 120-250 VDC	Clear Polycarbonate	Wide

All values typical unless otherwise stated (tolerance +/- 10%)  
 CCT placeholders - C=5000K (cool white), N= 4000K (neutral white)  
 For additional ordering options, please consult factory.

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## Vigilant® LED Linear

### Top Conduit - 10 year warranty

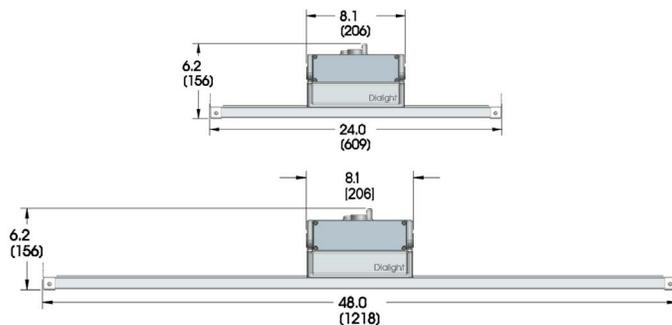


#### Certifications & Ratings

- UL 1598/A<sup>1</sup>
- CSA C22.2 No. 250<sup>1</sup>
- IP66/67
- NEMA 4X
- 2000 PSI hose-down rating<sup>2</sup>
- DLC Premium & Standard

<sup>1</sup>ETL listed

<sup>2</sup>Internally tested



Dimensions in inches [mm]

#### Mechanical Information:

<b>Fixture weight:</b>	4' - 11 lb (5.0 kg) 2' - 8 lb (3.6 kg)
<b>Shipping weight:</b>	4' - 12 lb (5.4 kg) 2' - 9 lb (4.1 kg)
<b>Mounting:</b>	(4) 3/4" NPT openings Optional swivel bracket - LTXW4 Optional low profile bracket - LTXW4LP

#### Variable Dimming:

<b>Variable dimming control:</b>	0-10 VDC
<b>Dimming range:</b>	10 VDC = 100% light output 0 VDC = 5% light output

#### Electrical Specifications:

<b>Operating voltage:</b>	100-277 VAC, 50/60Hz 120-250 VDC
<b>Power consumption:</b>	See ordering information
<b>Operating temp:</b>	-40°F to +149°F (-40°C to +65°C)
<b>EMC:</b>	FCC Title 47, Subpart B, Section 15, Class A device. RF Immunity; 10V/m, 80MHz-1GHz
<b>Surge protection:</b>	EN 61000-4-5 6 kV line-to-line 6 kV line-to-ground
<b>Harmonics:</b>	IEC 61000-3-2 Class C ATHD<20%
<b>Power factor:</b>	> 0.9

#### Construction:

<b>Finish:</b>	Superior dual coat finish - Sealed polyester topcoat - Chemical resistant epoxy primer
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<b>Lens:</b>	Polycarbonate
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#### Photometric Information:

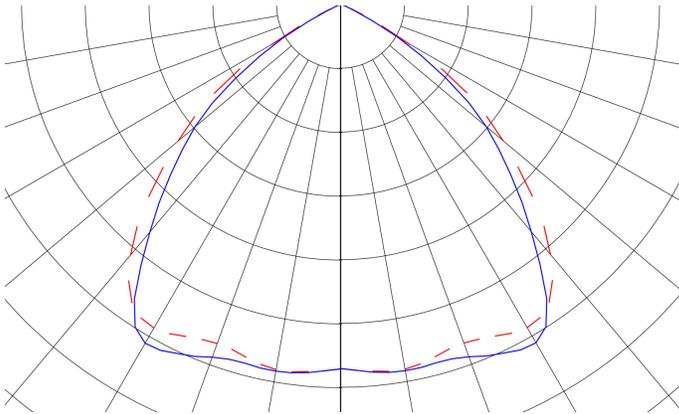
<b>CRI:</b>	80
<b>CCT:</b>	5000K (cool white) 4000K (neutral white)
<b>IES files:</b>	Available at <a href="http://www.dialight.com">www.dialight.com</a>

All values typical unless otherwise stated (tolerance +/- 10%)

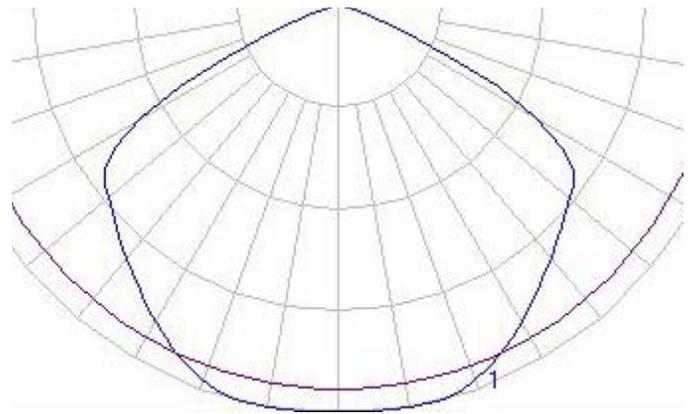
**WARNING - INSTALLATION & SECONDARY RETENTION.** Use of any Dialight products without proper installation (including secondary retention / netting) and periodic inspections could cause severe injury or death. Dialight recommends that all installations should use secondary retention / netting (appropriate to the installation environment) where applicable. It is the exclusive responsibility of the contractor, installer and/or end-user to: (a) determine the suitability of the product for its intended application; and, (b) ensure that the product is safely installed (with secondary retention / netting where appropriate) and in compliance with all applicable laws and regulations. To the extent permissible under applicable laws, Dialight disclaims all liability for personal injury and/or other damage resulting from any dislodgment or other dislocation of its products.

# Beam Distribution

Medium



Wide



# In Rush Currents

Lumen Family	Wattage	In rush current @ input voltage			Time duration of in rush current @ input voltage		
		120 VAC	230 VAC	277 VAC	120 VAC	230 VAC	277 VAC
9K+	71	8A	15A	18A	1ms	1ms	1ms
7K+	52	8A	15A	18A	1ms	1ms	1ms
4.5K+	38	8A	15A	18A	1ms	1ms	1ms
2.5K+	24	8A	15A	18A	1ms	1ms	1ms

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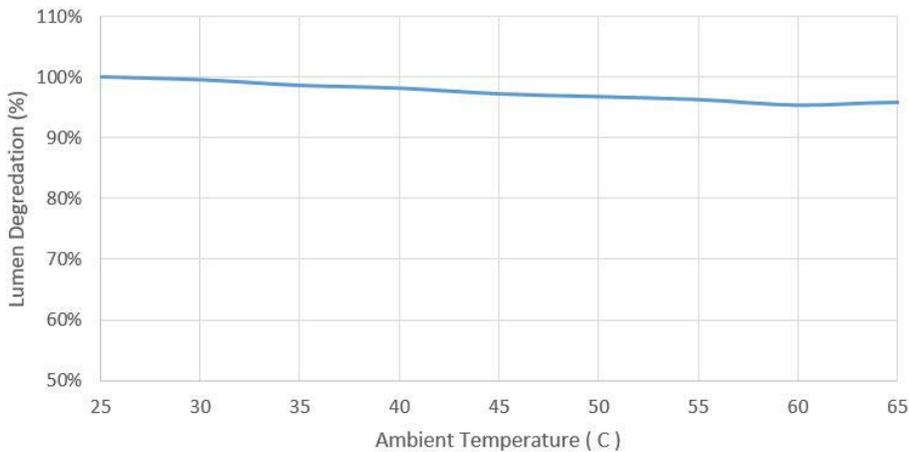
# Lumen Maintenance Factor

Lumen Maintenance Factor									
Time (Hours)									
Ambient (°C)	0	15000	30000	45000	60000	75000	90000	100000	150000
25°	100	98	96	95	94	92	91	90	86
30°	100	97	96	95	93	92	91	90	86
35°	99	96	95	94	92	91	90	89	85
40°	98	96	95	93	92	91	89	89	84
45°	97	95	94	92	91	90	89	88	84
50°	97	94	93	92	91	89	88	87	83
55°	96	94	93	91	90	89	88	87	83
60°	95	93	92	91	89	88	87	86	82
65°	96	94	92	91	90	88	87	86	82

Measured LED temperature for an ambient temperature range of 25°C to 65°C and calculated lumen maintenance using TM-21 calculator and LED LM80 data.

# Thermal Roll-Off

Thermal Roll-off 9000lm



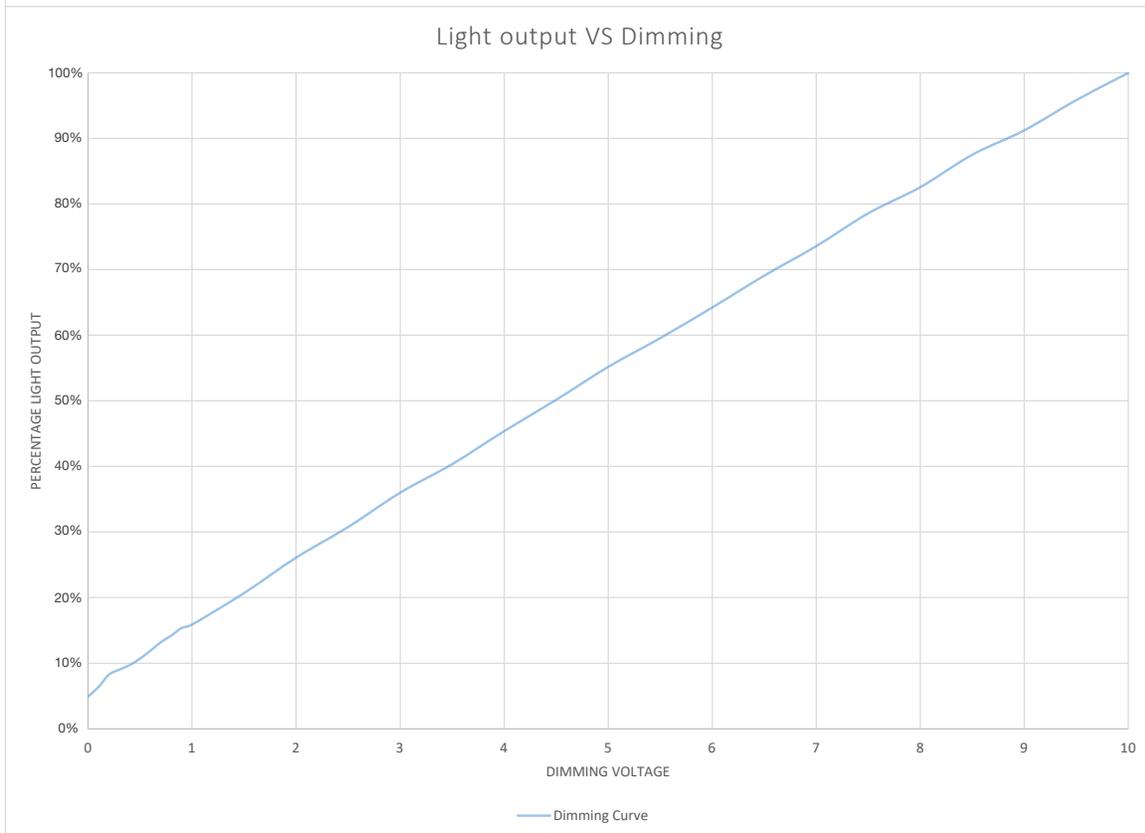
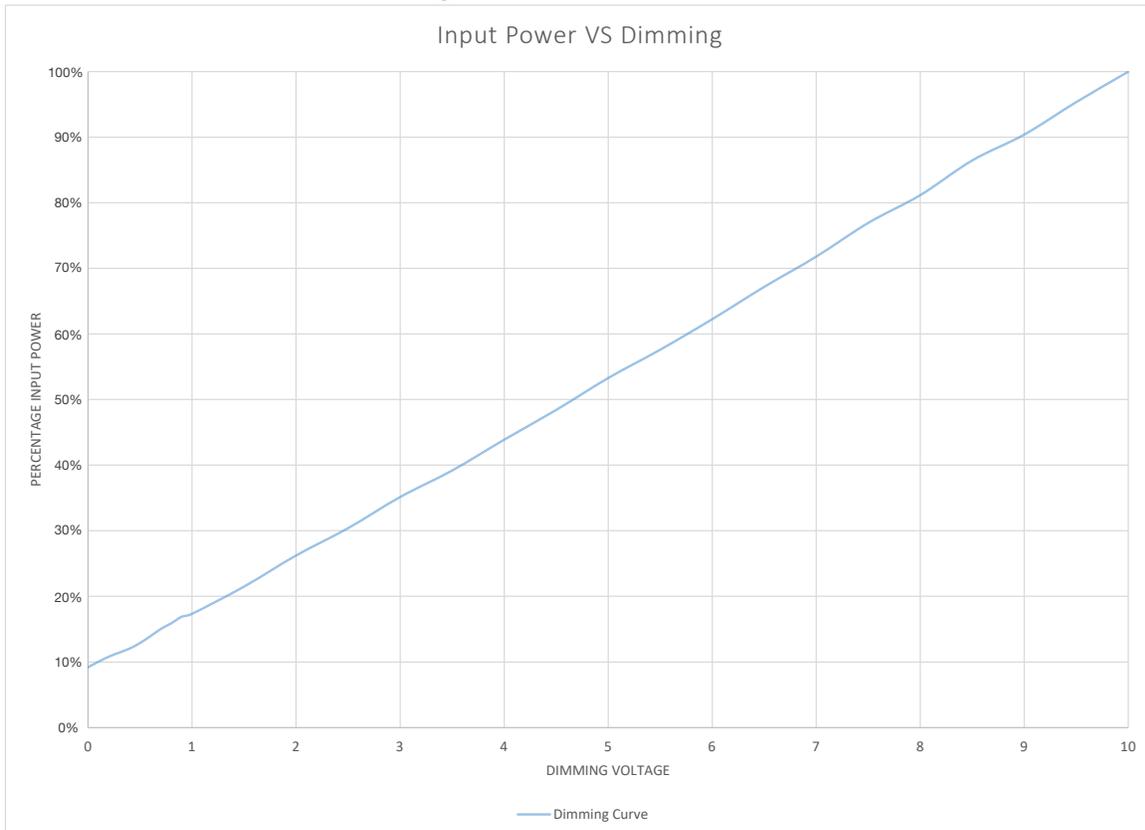
Ambient Temperature (°C)	Lumen Degradation
25°	100%
30°	100%
35°	99%
40°	98%
45°	97%
50°	97%
55°	96%
60°	95%
65°	96%

All values typical unless otherwise stated (tolerance +/- 10%)

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# Dimming

## Dimming Characterization 0-10V



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# SafeSite® LED High Bay - UL / CSA

## Class I, Div. 1 and Class I, Zone 1 - 100-277 VAC



### Mechanical Information:

**Fixture weight:**  
30 lbs (14 kg)

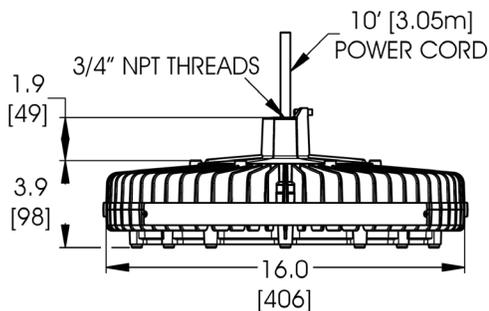
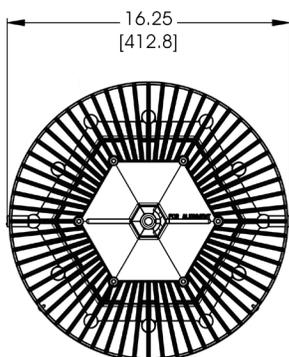
**Shipping weight:**  
35 lbs (19 kg)

**Mounting:**  
3/4" NPT - top  
Various Kits

**Power Cord:**  
10' 18 AWG STOOW/SOOW

Class I, Div. 1 Groups C, D  
 Class I, Div. 1 Groups B, C, D  
 Class I Zone 1, Groups IIB  
 Class I, Div. 2 Groups C, D  
 Class II, Div. 1 Groups E, F, G  
 Class II, Div. 2 Groups F, G

\*Group B applies to HEP models only



Dimensions in inches (mm)

### Temperature Ratings:

**Ambient Temp Range**  
**T4 Temp Code:** -40°F to +149°F (-40°C to +65°C)

**Ambient Temp Range**  
**T5 Temp Code:** -40°F to +131°F (-40°C to +50°C)

### Certifications & Ratings:

10 year warranty  
 UL 844 (wet locations) NEMA 4X  
 CSA 22.2 No. 137-M81 UL 8750  
 IP66/67 L70 rated for >150,000 hours  
 Factory sealed

### Variable Dimming:

**Variable Dimming Control:** 0-10 VDC

**Dimming Range:** 10 VDC = 100% light output  
 0 VDC = <10% light output

### Electrical Specifications:

**Operating voltage:** 100-277 VAC, 120-250 VDC

**Power consumption:** See table

**Operating temp:** -40°F to +149°F (-40°C to +65°C)

**Harmonics:** IEC 61000-3-2 Class C

**Noise requirement /EMC:** FCC Title 47, Subpart B, Section 15, Class A device. RF Immunity; 10V/m, 80MHz-1GHz

**Transient protection:** Protection devices capable of handling up to 6kV. Tested with 6kV/2 ohm combination wave, as per IEEE C62.41, line-line and line-ground

**THD:** < 20%

**Power factor:** >0.9

**Cabling:** STOOW 18 gauge AWG

**Fusing:** Internal

### Construction:

**Housing:** Copper free aluminum

**Finish:** Superior dual coat finish  
 Sealed polyester topcoat  
 Chemical-resistant epoxy primer

**Lens:** See table

### Photometric Information:

**CRI:** 80

**CCT:** 5000K (cool white)  
 4000K (neutral white)

All values typical unless otherwise stated (tolerance +/- 10%)

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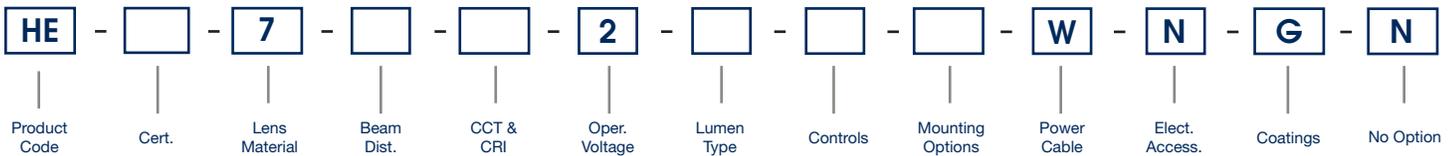
## SafeSite® LED High Bay - UL / CSA

Class I, Div. 1 and Class I, Zone 1 - 100-277 VAC

Project Information	
Part Number:	
Project:	
Fixture Type:	Date:

Specifications

### Ordering Information



#### Product Code

HE High Bay 3/4" NPT

#### Beam Distribution

- E Oval
- M Medium
- N Narrow
- W Wide

#### Lumen Type

- A 9,500 Lumens
- B 12,500 Lumens
- C 16,000 Lumens
- E 23,500 Lumens

#### Power Cable

W 10' [3 meter] Power Cable

#### Certification

- C UL 844, CID1, Class I, Zone 1
- M UL 844, CID1 Paint Spray Class I, Zone 1
- P UL 844, CID1 Group B, Class I, Zone 1

#### CCT & CRI

- C Cool White 5000K - 80 CRI
- N Neutral White 4000K - 80 CRI

#### Controls

- D Dimming (0-10V)
- N No Option

#### Electrical Accessories

N No Plug

#### Lens Material

7 Glass - Clear

#### Operating Voltage

2 100-277 VAC / 120-250 VDC

#### Mounting Options

- N Pendant 3/4" NPT
- P Pendant 3/4" NPT with Safety Retention Tabs

#### Coatings

G Gray (RAL 7040)

#### Option

N No Option

#### Notes

1) Lumen type based on using a glass lens. See tables for lumens when changing lenses.

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# Ordering Information

## SafeSite® LED High Bay

### Class I, Div. 1 and Class I, Zone 1 - 100-277 VAC



Class I, Div. 1 and Class I, Zone 1 - 100-277 VAC										
Part Number	Lumens	Wattage	lm/W	Certification	CCT	Lens	Beam Distribution	Controls Option	Hardware Options	Wiring
HEC-7WC2-ENNW-NGN	23,500	186	126	CID1	CW	Tempered Glass	Wide	No controls	Pendant 3/4" NPT	10' Power Cable
HEC-7MC2-ENPW-NGN	23,500	186	126	CID1	CW	Tempered Glass	Medium	No controls	Pendant 3/4" NPT with Safety Tabs	10' Power Cable
HEM-7MC2-ENNW-NGN	23,500	186	126	Paint Spray	CW	Tempered Glass	Medium	No controls	Pendant 3/4" NPT	10' Power Cable
HEC-7MC2-CNNW-NGN	16,000	129	124	CID1	CW	Tempered Glass	Medium	No controls	Pendant 3/4" NPT	10' Power Cable
HEC-7WC2-CNWW-NGN	16,000	129	124	CID1	CW	Tempered Glass	Wide	No controls	Safety Bracket w/ SS 316 Forward Throw Bracket	10' Power Cable
HEC-7MC2-CNPW-NGN	16,000	129	124	CID1	CW	Tempered Glass	Medium	No controls	Pendant 3/4" NPT with Safety Tabs	10' Power Cable
HEC-7WC2-CNTW-NGN	16,000	129	124	CID1	CW	Tempered Glass	Wide	No controls	Safety Bracket w/ Locking Swivel Mount/Bracket SS316	10' Power Cable
HEC-7WC2-CNNW-NGN	16,000	129	124	CID1	CW	Tempered Glass	Wide	No controls	Pendant 3/4" NPT	10' Power Cable
HEC-7WC2-CNPW-NGN	16,000	129	124	CID1	CW	Tempered Glass	Wide	No controls	Pendant 3/4" NPT with Safety Tabs	10' Power Cable
HEM-7MC2-CNNW-NGN	16,000	129	124	Paint Spray	CW	Tempered Glass	Medium	No controls	Pendant 3/4" NPT	10' Power Cable
HEC-7MC2-BNNW-NGN	12,500	102	123	CID1	CW	Tempered Glass	Medium	No controls	Pendant 3/4" NPT	10' Power Cable
HEC-7WC2-BNPW-NGN	12,500	102	123	CID1	CW	Tempered Glass	Wide	No controls	Pendant 3/4" NPT with Safety Tabs	10' Power Cable
HEM-7WC2-BNNW-NGN	12,500	102	123	Paint Spray	CW	Tempered Glass	Wide	No controls	Pendant 3/4" NPT	10' Power Cable
HEC-7WC2-BNNW-NGN	12,500	102	123	CID1	CW	Tempered Glass	Wide	No controls	Pendant 3/4" NPT	10' Power Cable
HEC-7MC2-BNPW-NGN	12,500	102	123	CID1	CW	Tempered Glass	Medium	No controls	Pendant 3/4" NPT with Safety Tabs	10' Power Cable
HEM-7WN2-ANNW-NGN	9,500	80	119	Paint Spray	NW	Tempered Glass	Wide	No controls	Pendant 3/4" NPT	10' Power Cable
HEC-7MC2-ANNW-NGN	9,500	80	119	CID1	CW	Tempered Glass	Medium	No controls	Pendant 3/4" NPT	10' Power Cable
HEC-7WC2-ANNW-NGN	9,500	80	119	CID1	CW	Tempered Glass	Wide	No controls	Pendant 3/4" NPT	10' Power Cable
HEC-7MN2-ANNW-NGN	9,250	80	116	CID1	NW	Tempered Glass	Medium	No controls	Pendant 3/4" NPT	10' Power Cable

All values typical unless otherwise stated (tolerance +/- 10%)

0-10V dimming option available for products in the above table. Replace the ninth character **N** with **D**. Ex: HEC-7WC2-ENNW-NGN becomes HEC-7WC2-EDNW-NGN.

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# Dialight



## SafeSite® LED Floodlight - UL 844 for Indoor & Outdoor Hazardous Applications



APRIL 2021



## Features & Benefits

- 10 year warranty
- L70 rated for >100,000 hours @ 25°C ambient
- DLC listed
- Instant on/off operation
- Universal input (100-277 VAC, 50/60Hz or 347/480 VAC, 60Hz)
- Superior color rendering index compared to HPS, LPS, MH
- Resistant to shock and vibration
- Isolated wiring compartment
- Integral safety straps
- Temperature compensation technology for longer life

## Application

The SafeSite® LED Floodlight represents the future of energy efficient facility illumination for hazardous applications worldwide. The fixture consumes at least 50% less energy than traditional HID light sources, while reducing maintenance and improving light quality. This light incorporates both cutting edge LED technology along with proprietary optics to achieve flood lighting comparable with other traditional light sources.

# SafeSite® LED Floodlight - UL 844

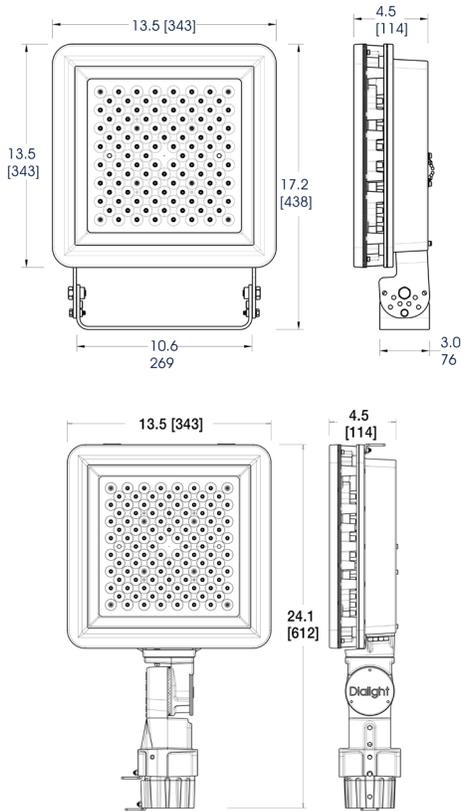
## Standard Model & Slipfitter Model



Standard Models



Slipfitter Models



Dimensions in inches [mm]

Temperature Ratings	
Ambient Temperature Range T4A Temperature Code	Ambient Temperature Range T5 Temperature Code
15,000 - 13,500lm models	11,500 - 10,750lm models
-40°F to +149°F (-40°C to +65°C)	-40°F to +149°F (-40°C to +65°C)

### Certifications & Ratings

- Class I, Div. 2 Groups A, B, C & D
- Class II, Div. 1 Groups E, F & G
- Class II, Div. 2 Groups F & G
- Class III
- UL 844
- CSA C22.2 No. 137
- NEMA 4X
- IP66/67
- IK07 (Glass) / IK10 (Polycarbonate)
- ABS # 14-HS1209391-PDA (Trunnion mount models only)

### Mechanical Information:

- Fixture weight:** 30 lb (13.6 kg)
- Shipping weight:** 35 lb (15.9 kg)
- EPA (Sq.ft):** 1.66
- Mounting:**
  - 304 Stainless Steel trunnion mount bracket (standard)
  - Integral slipfitter (optional for CID2 only)
- Entries:** (2) 3/4" NPT cable entries (Trunnion mount models only)

### Electrical Specifications:

- Operating voltage:** 100-277 VAC, 50/60Hz  
347-480 VAC, 50/60Hz
- Power consumption:** See table
- Operating temp:** -40°F to +149°F (-40°C to +65°C)
- Noise requirement /EMC:** EN 55015 - conducted and radiated  
FCC Title 47, Subpart B, Section 15, Class A device. RF Immunity; 10V/m, 80MHz-1GHz
- Surge protection:** EN61000-4-5  
Verified up to 6kV/2ohms at an independent test laboratory protection devices capable of 20kV
- THD:** < 20%
- Power factor:** > 0.9

### Construction:

- Housing:** Copper-free aluminum
- Finish:** Superior dual coat finish
  - sealed polyester topcoat
  - chemical resistant epoxy primer
- Lens:** Tempered glass  
Polycarbonate

### Photometric Information:

- CRI:** 75
- CCT:** 5000K (cool white)  
4000K (neutral white)
- NEMA Patterns:**
  - 7x6 - Asymmetrical (140° x 115°)
  - 6x7 - Asymmetrical (115° x 140°)
  - 6 - Very wide (115°)
  - 5 - Wide (93°)
  - 4 - Medium (52°)
  - 2 - Narrow (23°)

**IES files:** Available at [www.dialight.com](http://www.dialight.com)

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# SafeSite® LED Floodlight - UL 844

## Mounting Accessories



### HZXSAFECBLS

- Safety cable kit
- Kit includes: (2) Safety cables



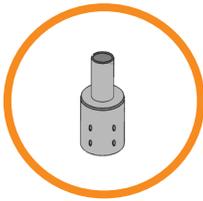
### FLX-1TPT-20DB<sup>1</sup>

- Tenon pole topper, 2-3/8" mount (Trunnion mount models only)
- Kit includes: Tenon topper, pole set screws, and mounting hardware



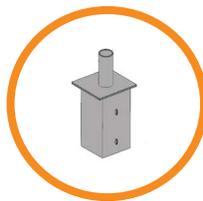
### FLX-1RAB-20DB

- Right angle mounting bracket for 2-3/8" light mount
- Kit includes: Right angle bracket



### FLX-3RPA-20DB FLX-4RPA-20DB

- Reducer for 3" or 4" OD round pole top to 2-3/8" light mount
- Kit includes: Reducer pole set screws



### FLX-4SPA-20DB FLX-5SPA-20DB FLX-6SPA-20DB

- Internal tenon adapter for 4", 5" or 6" square pole top to 2-3/8" light mount
- Kit includes: Adapter



### FLX-2LBH-20DB

- Bull horn for 2 lights, 2-3/8" mount, 21" spacing
- Kit includes: Bull horn, pole set screws



### FLX-3LBH-20DB

- Bull horn for 3 lights, 2-3/8" mount, 21" spacing
- Kit includes: Bull horn, pole set screws



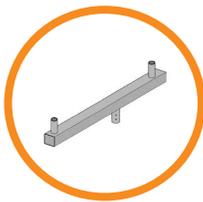
### FLX-4LBH-20DB

- Bull horn for 4 lights, 2-3/8" mount, 21" spacing
- Kit includes: Bull horn, pole set screws



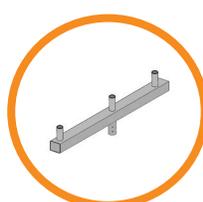
### FLX-4RBH-20DB

- Bull horn for 4 lights, 2-3/8" mount, 21" spacing
- Kit includes: Bull horn, pole set screws



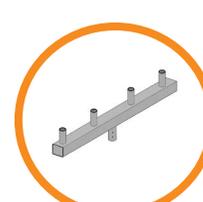
### FLX-2RSR-20DB

- Bull horn for 2 lights, 2-3/8" mount, 21" spacing
- Kit includes: Bull horn, pole set screws



### FLX-3RSR-20DB

- Bull horn for 3 lights, 2-3/8" mount, 21" spacing
- Kit includes: Bull horn, pole set screws



### FLX-4RSR-20DB

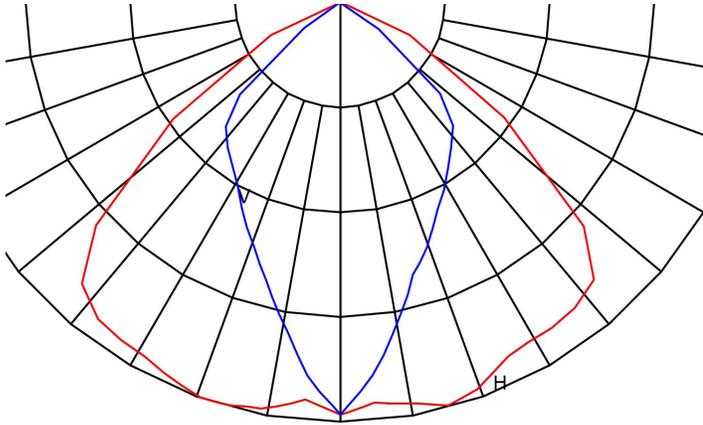
- Bull horn for 4 lights, 2-3/8" mount, 21" spacing
- Kit includes: Bull horn, pole set screws

Brackets and adapters require the integral slipfitter models or tenon pole topper (FLX-1TPT-20DB) to mount floodlight. Tenon pole topper sold separately.

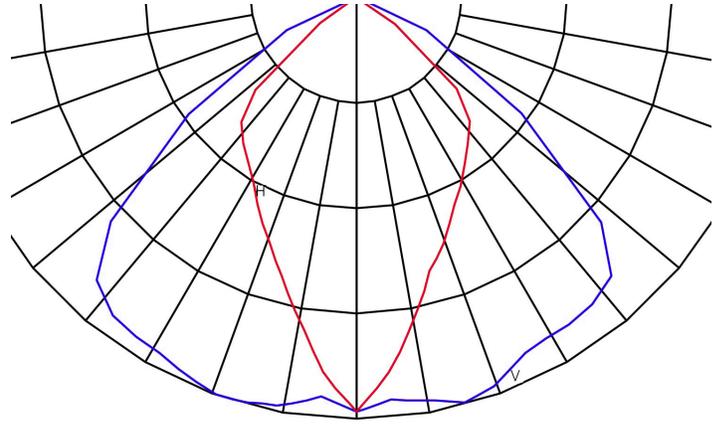
# SafeSite® LED Floodlight - UL 844

## Beam Distribution Patterns

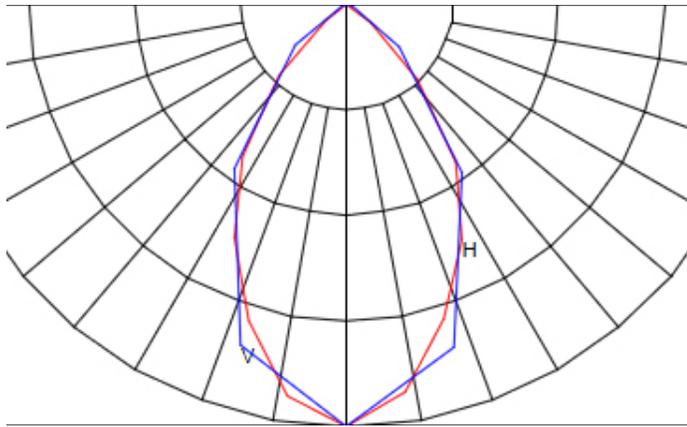
NEMA 7x6 - Field angle = 140° x 115°



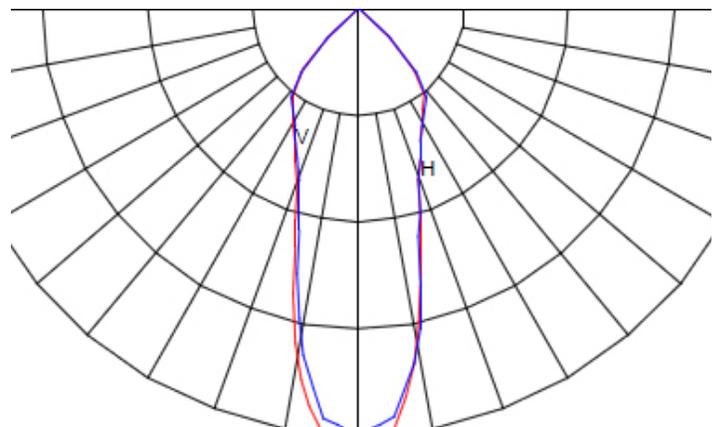
NEMA 6x7 - Field angle = 115° x 140°



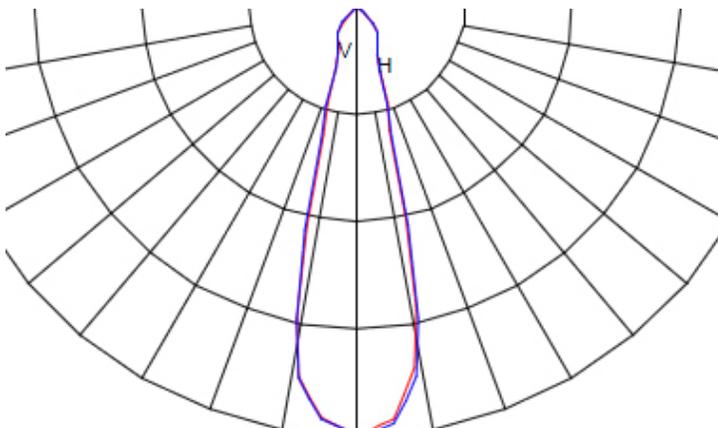
NEMA 6 - Field angle = 115°



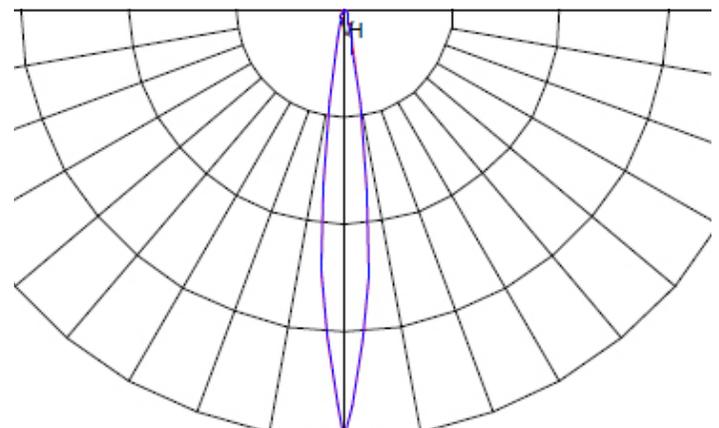
NEMA 5 - Field angle = 93°



NEMA 4 - Field angle = 52°



NEMA 2 - Field angle = 23°



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# SafeSite® LED Floodlight - UL 844

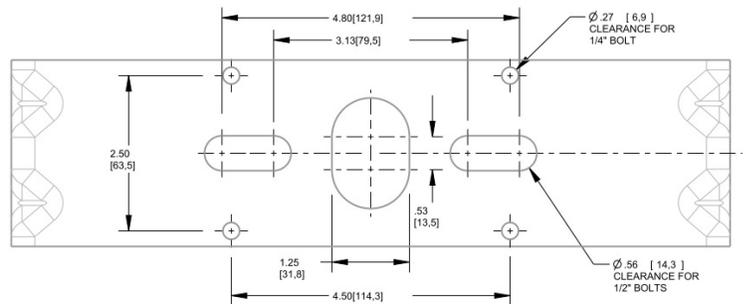
## Mounting Options

### Standard Models



Bracket has locking positions at 0°, (±) 22.5°, (±) 45°, (±) 67.5°, and 90°

Factory Installed Mounting Bracket

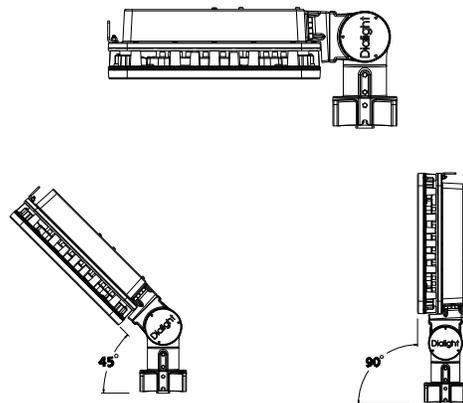


### Slipfitter Models



Mount to 2" round poles (2-3/8" OD)  
 Integrated Slipfitter has locking positions from 0°-180°, in 7.5° increments  
 Gasketed wiring compartment

0°, 45°, 90° Angles

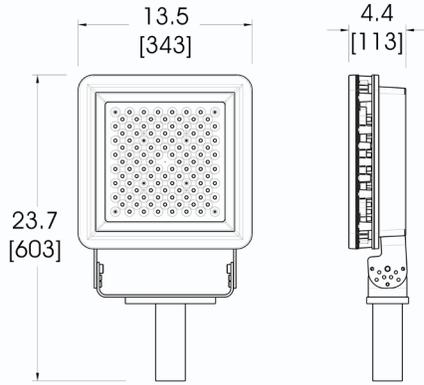


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# SafeSite® LED Floodlight - UL 844

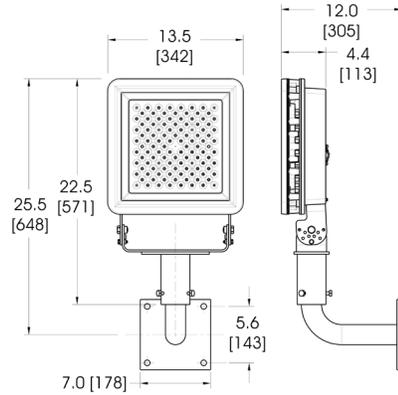
## Mounting Options

FLX-1TPT-20DB



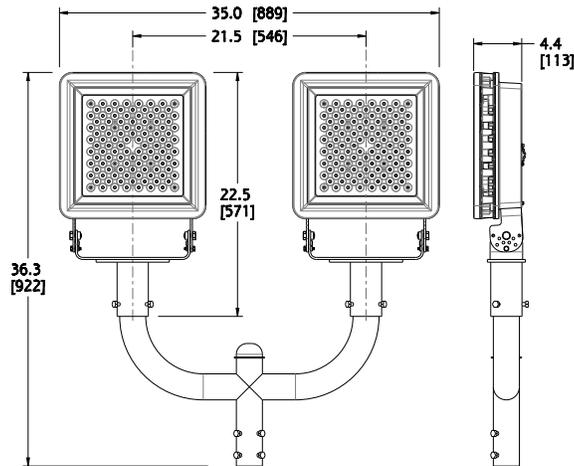
(Fixture and bracket sold separately)

FLX-1RAB-20DB



(Fixture and bracket sold separately)

FLX-2LBH-20DB



(Fixture and bracket sold separately)

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# SafeSite® LED Floodlight - UL 844

## Ordering Information - Standard Model

Classifications: CID2 A, B, C, D • CIID1 E, F, G • CIID2 F, G • CIII

Legacy Part Number	New Part Number	CID2	CIID1	CIID2	CIII	Fixture Lumens	Wattage	lm/W	Voltage	Beam Distribution
<b>100-277 VAC Models - Glass Lens, 5000K</b>										
FLD466NC4NG	FLD76B2BNTNNGN	•	•	•	•	15,000	135	111	100-277 VAC	NEMA 6 (115°)
FLD476NC4NG	FLD77B2BNTNNGN	•	•	•	•	14,750	135	109	100-277 VAC	NEMA 7x6 (140° x 115°)
FLD467NC4NG	FLD78B2BNTNNGN	•	•	•	•	14,750	135	109	100-277 VAC	NEMA 6x7 (115° x 140°)
FLD455NC4NG	FLD75B2BNTNNGN	•	•	•	•	14,500	140	104	100-277 VAC	NEMA 5 (93°)
FLD444NC4NG	FLD74B2BNTNNGN	•	•	•	•	14,500	140	104	100-277 VAC	NEMA 4 (52°)
FLD422NC4NG	FLD72B2BNTNNGN	•	•	•	•	13,500	140	96	100-277 VAC	NEMA 2 (23°)
FLD276NC2NG	FLD77B2ANTNNGN	•	•	•	•	11,500	106	108	100-277 VAC	NEMA 7x6 (140° x 115°)
FLD267NC2NG	FLD78B2ANTNNGN	•	•	•	•	11,500	106	108	100-277 VAC	NEMA 6x7 (115° x 140°)
FLD266NC2NG	FLD76B2ANTNNGN	•	•	•	•	11,250	106	106	100-277 VAC	NEMA 6 (115°)
FLD255NC2NG	FLD75B2ANTNNGN	•	•	•	•	11,000	106	104	100-277 VAC	NEMA 5 (93°)
FLD244NC2NG	FLD74B2ANTNNGN	•	•	•	•	10,500	106	99	100-277 VAC	NEMA 4 (52°)
FLD222NC2NG	FLD72B2ANTNNGN	•	•	•	•	10,750	106	101	100-277 VAC	NEMA 2 (23°)
<b>100-277 VAC Models - Polycarbonate Lens, 5000K</b>										
FLD466NC4NP	FLD46B2BNTNNGN	•				14,000	135	104	100-277 VAC	NEMA 6 (115°)
FLD476NC4NP	FLD47B2BNTNNGN	•				13,750	135	102	100-277 VAC	NEMA 7x6 (140° x 115°)
FLD467NC4NP	FLD48B2BNTNNGN	•				13,750	135	102	100-277 VAC	NEMA 6x7 (115° x 140°)
FLD455NC4NP	FLD45B2BNTNNGN	•				13,500	140	96	100-277 VAC	NEMA 5 (93°)
FLD444NC4NP	FLD44B2BNTNNGN	•				13,500	140	96	100-277 VAC	NEMA 4 (52°)
FLD422NC4NP	FLD42B2BNTNNGN	•				12,500	140	89	100-277 VAC	NEMA 2 (23°)
FLD276NC2NP	FLD47B2ANTNNGN	•				10,500	106	99	100-277 VAC	NEMA 7x6 (140° x 115°)
FLD267NC2NP	FLD48B2ANTNNGN	•				10,500	106	99	100-277 VAC	NEMA 6x7 (115° x 140°)
FLD266NC2NP	FLD46B2ANTNNGN	•				10,250	106	97	100-277 VAC	NEMA 6 (115°)
FLD255NC2NP	FLD45B2ANTNNGN	•				10,000	106	94	100-277 VAC	NEMA 5 (93°)
FLD244NC2NP	FLD44B2ANTNNGN	•				9,500	106	90	100-277 VAC	NEMA 4 (52°)
FLD222NC2NP	FLD42B2ANTNNGN	•				9,750	106	92	100-277 VAC	NEMA 2 (23°)
<b>347-480 VAC Models - Glass Lens Only, 5000K</b>										
FLD466NC5NG	FLD76B5BNTNNGN	•	•	•	•	15,000	135	111	347/480 VAC	NEMA 6 (115°)
FLD476NC5NG	FLD77B5BNTNNGN	•	•	•	•	14,750	135	109	347/480 VAC	NEMA 7x6 (140° x 115°)
FLD467NC5NG	FLD78B5BNTNNGN	•	•	•	•	14,750	135	109	347/480 VAC	NEMA 6x7 (115° x 140°)
FLD455NC5NG	FLD75B5BNTNNGN	•	•	•	•	14,500	140	104	347/480 VAC	NEMA 5 (93°)
FLD444NC5NG	FLD74B5BNTNNGN	•	•	•	•	14,500	140	104	347/480 VAC	NEMA 4 (52°)
FLD422NC5NG	FLD72B5BNTNNGN	•	•	•	•	13,500	140	96	347/480 VAC	NEMA 2 (23°)
FLD276NC5NG	FLD77B5ANTNNGN	•	•	•	•	11,750	112	105	347/480 VAC	NEMA 7x6 (140° x 115°)
FLD267NC5NG	FLD78B5ANTNNGN	•	•	•	•	11,750	112	105	347/480 VAC	NEMA 6x7 (115° x 140°)
FLD266NC5NG	FLD76B5ANTNNGN	•	•	•	•	11,250	112	100	347/480 VAC	NEMA 6 (115°)
FLD255NC5NG	FLD75B5ANTNNGN	•	•	•	•	10,000	112	89	347/480 VAC	NEMA 5 (93°)
FLD244NC5NG	FLD74B5ANTNNGN	•	•	•	•	10,000	112	89	347/480 VAC	NEMA 4 (52°)
FLD222NC5NG	FLD72B5ANTNNGN	•	•	•	•	10,000	112	89	347/480 VAC	NEMA 2 (23°)

All values typical unless otherwise stated (tolerance +/- 10%).

Part numbers listed in the table above are powder coated gray. For trunnion mount models with bronze powder coat replace the 10th character with Z.

Part numbers listed in the table above are cool white. For neutral white models, replace the 8th character with an N.

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# SafeSite® LED Floodlight - UL 844

## Ordering Information - Slipfitter Model

Classifications: CID2 A, B, C, D

Legacy Part Number	New Part Number	CID2	CIID1	CIID2	CIID3	Fixture Lumens	Wattage	lm/W	Voltage	Beam Distribution
<b>100-277 VAC Models - Glass Lens, 5000K</b>										
FLD466SC4NG	FLD76B2BNSNNGN	•				15,000	135	111	100-277 VAC	NEMA 6 (115°)
FLD476SC4NG	FLD77B2BNSNNGN	•				14,750	135	109	100-277 VAC	NEMA 7x6 (140° x 115°)
FLD467SC4NG	FLD78B2BNSNNGN	•				14,750	135	109	100-277 VAC	NEMA 6x7 (115° x 140°)
FLD455SC4NG	FLD75B2BNSNNGN	•				14,500	140	104	100-277 VAC	NEMA 5 (93°)
FLD444SC4NG	FLD74B2BNSNNGN	•				14,500	140	104	100-277 VAC	NEMA 4 (52°)
FLD422SC4NG	FLD72B2BNSNNGN	•				13,500	140	96	100-277 VAC	NEMA 2 (23°)
FLD276SC2NG	FLD77B2ANSNNGN	•				11,500	106	108	100-277 VAC	NEMA 7x6 (140° x 115°)
FLD267SC2NG	FLD78B2ANSNNGN	•				11,500	106	108	100-277 VAC	NEMA 6x7 (115° x 140°)
FLD266SC2NG	FLD76B2ANSNNGN	•				11,250	106	106	100-277 VAC	NEMA 6 (115°)
FLD255SC2NG	FLD75B2ANSNNGN	•				11,000	106	104	100-277 VAC	NEMA 5 (93°)
FLD244SC2NG	FLD74B2ANSNNGN	•				10,500	106	99	100-277 VAC	NEMA 4 (52°)
FLD222SC2NG	FLD72B2ANSNNGN	•				10,750	106	101	100-277 VAC	NEMA 2 (23°)
<b>100-277 VAC Models - Polycarbonate Lens, 5000K</b>										
FLD466SC4NP	FLD46B2BNSNNGN	•				14,000	135	104	100-277 VAC	NEMA 6 (115°)
FLD476SC4NP	FLD47B2BNSNNGN	•				13,750	135	102	100-277 VAC	NEMA 7x6 (140° x 115°)
FLD467SC4NP	FLD48B2BNSNNGN	•				13,750	135	102	100-277 VAC	NEMA 6x7 (115° x 140°)
FLD455SC4NP	FLD45B2BNSNNGN	•				13,500	140	96	100-277 VAC	NEMA 5 (93°)
FLD444SC4NP	FLD44B2BNSNNGN	•				13,500	140	96	100-277 VAC	NEMA 4 (52°)
FLD422SC4NP	FLD42B2BNSNNGN	•				12,500	140	89	100-277 VAC	NEMA 2 (23°)
FLD276SC2NP	FLD47B2ANSNNGN	•				10,500	106	99	100-277 VAC	NEMA 7x6 (140° x 115°)
FLD267SC2NP	FLD48B2ANSNNGN	•				10,500	106	99	100-277 VAC	NEMA 6x7 (115° x 140°)
FLD266SC2NP	FLD46B2ANSNNGN	•				10,250	106	97	100-277 VAC	NEMA 6 (115°)
FLD255SC2NP	FLD45B2ANSNNGN	•				10,000	106	94	100-277 VAC	NEMA 5 (93°)
FLD244SC2NP	FLD44B2ANSNNGN	•				9,500	106	90	100-277 VAC	NEMA 4 (52°)
FLD222SC2NP	FLD42B2ANSNNGN	•				9,750	106	92	100-277 VAC	NEMA 2 (23°)
<b>347-480 VAC Models - Glass Lens Only, 5000K</b>										
FLD466SC5NG	FLD76B5BNSNNGN	•				15,000	135	111	347/480 VAC	NEMA 6 (115°)
FLD476SC5NG	FLD77B5BNSNNGN	•				14,750	135	109	347/480 VAC	NEMA 7x6 (140° x 115°)
FLD467SC5NG	FLD78B5BNSNNGN	•				14,750	135	109	347/480 VAC	NEMA 6x7 (115° x 140°)
FLD455SC5NG	FLD75B5BNSNNGN	•				14,500	140	104	347/480 VAC	NEMA 5 (93°)
FLD444SC5NG	FLD74B5BNSNNGN	•				14,500	140	104	347/480 VAC	NEMA 4 (52°)
FLD422SC5NG	FLD72B5BNSNNGN	•				13,500	140	96	347/480 VAC	NEMA 2 (23°)
FLD276SC5NG	FLD77B5ANSNNGN	•				11,750	112	105	347/480 VAC	NEMA 7x6 (140° x 115°)
FLD267SC5NG	FLD78B5ANSNNGN	•				11,750	112	105	347/480 VAC	NEMA 6x7 (115° x 140°)
FLD266SC5NG	FLD76B5ANSNNGN	•				11,250	112	100	347/480 VAC	NEMA 6 (115°)
FLD255SC5NG	FLD75B5ANSNNGN	•				10,000	112	89	347/480 VAC	NEMA 5 (93°)
FLD244SC5NG	FLD74B5ANSNNGN	•				10,000	112	89	347/480 VAC	NEMA 4 (52°)
FLD222SC5NG	FLD72B5ANSNNGN	•				10,000	112	89	347/480 VAC	NEMA 2 (23°)

All values typical unless otherwise stated (tolerance +/- 10%).

Part numbers listed in the table above are cool white. For neutral white models, replace the 8th character with an N.

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Fax: +55 (19) 3113-4300  
brasil@dialight.com

### WARNING / DISCLAIMERS:

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## Vigilant® LED Linear

Low Profile - 10 year warranty

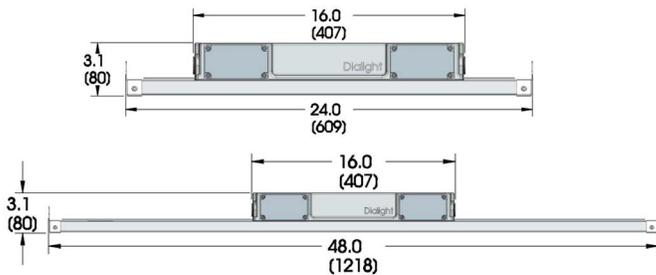


### Certifications & Ratings

- UL 1598/A<sup>1</sup>
- CSA C22.2 No. 250<sup>1</sup>
- IP66/67
- NEMA 4X
- 2000 PSI hose-down rating<sup>2</sup>
- DLC Premium & Standard

<sup>1</sup>ETL listed

<sup>2</sup>Internally tested



Dimensions in inches [mm]

### Mechanical Information:

<b>Fixture weight:</b>	4' - 11 lb (5.0 kg) 2' - 8 lb (3.6 kg)
<b>Shipping weight:</b>	4' - 12 lb (5.4 kg) 2' - 9 lb (4.1 kg)
<b>Mounting:</b>	(4) 3/4" NPT openings Optional swivel bracket - LPXW4 Optional low profile bracket - LPXW4LP

### Variable Dimming:

<b>Variable dimming control:</b>	0-10 VDC
<b>Dimming range:</b>	10 VDC = 100% light output 0 VDC = 5% light output

### Electrical Specifications:

<b>Operating voltage:</b>	100-277 VAC, 50/60Hz 120-250 VDC
<b>Power consumption:</b>	See ordering information
<b>Operating temp:</b>	-40°F to +149°F (-40°C to +65°C)
<b>EMC:</b>	FCC Title 47, Subpart B, Section 15, Class A device. RF Immunity; 10V/m, 80MHz-1GHz
<b>Surge protection:</b>	EN 61000-4-5 6 kV line-to-line 6 kV line-to-ground
<b>Harmonics:</b>	IEC 61000-3-2 Class C ATHD<20%
<b>Power factor:</b>	> 0.9

### Construction:

<b>Finish:</b>	Superior dual coat finish - Sealed polyester topcoat - Chemical resistant epoxy primer
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<b>Lens:</b>	Polycarbonate
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### Photometric Information:

<b>CRI:</b>	80
<b>CCT:</b>	5000K (cool white) 4000K (neutral white)
<b>IES files:</b>	Available at <a href="http://www.dialight.com">www.dialight.com</a>

All values typical unless otherwise stated (tolerance +/- 10%)

**WARNING - INSTALLATION & SECONDARY RETENTION.** Use of any Dialight products without proper installation (including secondary retention / netting) and periodic inspections could cause severe injury or death. Dialight recommends that all installations should use secondary retention / netting (appropriate to the installation environment) where applicable. It is the exclusive responsibility of the contractor, installer and/or end-user to: (a) determine the suitability of the product for its intended application; and, (b) ensure that the product is safely installed (with secondary retention / netting where appropriate) and in compliance with all applicable laws and regulations. To the extent permissible under applicable laws, Dialight disclaims all liability for personal injury and/or other damage resulting from any dislodgment or other dislocation of its products.

# Ordering Information

Vigilant® LED Linear - Low Profile - 10 year warranty



Part Number (x = CCT placeholder)	Length	CRI	Wattage	Fixture Lumens		lm/W		Voltage	Lens	Beam Distribution
				5000K	4000K	5000K	4000K			
LKU-4M(x)2-9DNN-NGN	4'	80	70	9,600	9,300	137	132	100-277 VAC / 120-250 VDC	Clear Polycarbonate	Medium
LKU-5M(x)2-9DNN-NGN	4'	80	70	8,800	8,500	125	121	100-277 VAC / 120-250 VDC	Diffused Polycarbonate	Medium
LKU-4W(x)2-9DNN-NGN	4'	80	70	9,600	9,300	137	132	100-277 VAC / 120-250 VDC	Clear Polycarbonate	Wide
LKU-4M(x)2-7DNN-NGN	4'	80	52	7,250	6,950	139	134	100-277 VAC / 120-250 VDC	Clear Polycarbonate	Medium
LKU-5M(x)2-7DNN-NGN	4'	80	52	6,550	6,250	126	120	100-277 VAC / 120-250 VDC	Diffused Polycarbonate	Medium
LKU-4W(x)2-7DNN-NGN	4'	80	52	7,250	6,950	139	134	100-277 VAC / 120-250 VDC	Clear Polycarbonate	Wide
LJU-4M(x)2-5DNN-NGN	2'	80	37	4,750	4,500	128	122	100-277 VAC / 120-250 VDC	Clear Polycarbonate	Medium
LJU-5M(x)2-5DNN-NGN	2'	80	37	4,450	4,200	120	114	100-277 VAC / 120-250 VDC	Diffused Polycarbonate	Medium
LJU-4W(x)2-5DNN-NGN	2'	80	37	4,750	4,500	128	122	100-277 VAC / 120-250 VDC	Clear Polycarbonate	Wide

All values typical unless otherwise stated (tolerance +/- 10%)  
 CCT placeholders - C=5000K (cool white), N= 4000K (neutral white)  
 For additional ordering options, please consult factory.

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## Vigilant® LED Linear

### Top Conduit - 10 year warranty

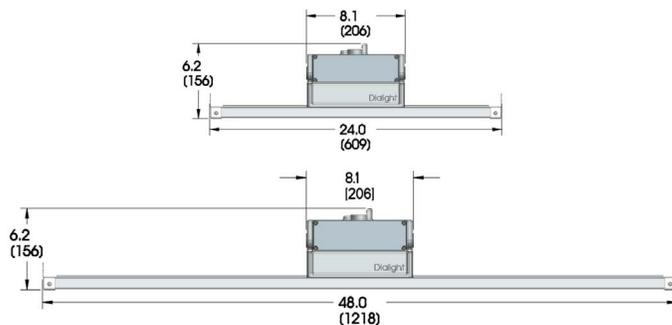


#### Certifications & Ratings

- UL 1598/A<sup>1</sup>
- CSA C22.2 No. 250<sup>1</sup>
- IP66/67
- NEMA 4X
- 2000 PSI hose-down rating<sup>2</sup>
- DLC Premium & Standard

<sup>1</sup>ETL listed

<sup>2</sup>Internally tested



Dimensions in inches [mm]

#### Mechanical Information:

<b>Fixture weight:</b>	4' - 11 lb (5.0 kg) 2' - 8 lb (3.6 kg)
<b>Shipping weight:</b>	4' - 12 lb (5.4 kg) 2' - 9 lb (4.1 kg)
<b>Mounting:</b>	(4) 3/4" NPT openings Optional swivel bracket - LTXW4 Optional low profile bracket - LTXW4LP

#### Variable Dimming:

<b>Variable dimming control:</b>	0-10 VDC
<b>Dimming range:</b>	10 VDC = 100% light output 0 VDC = 5% light output

#### Electrical Specifications:

<b>Operating voltage:</b>	100-277 VAC, 50/60Hz 120-250 VDC
<b>Power consumption:</b>	See ordering information
<b>Operating temp:</b>	-40°F to +149°F (-40°C to +65°C)
<b>EMC:</b>	FCC Title 47, Subpart B, Section 15, Class A device. RF Immunity; 10V/m, 80MHz-1GHz
<b>Surge protection:</b>	EN 61000-4-5 6 kV line-to-line 6 kV line-to-ground
<b>Harmonics:</b>	IEC 61000-3-2 Class C ATHD<20%
<b>Power factor:</b>	> 0.9

#### Construction:

<b>Finish:</b>	Superior dual coat finish - Sealed polyester topcoat - Chemical resistant epoxy primer
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<b>Lens:</b>	Polycarbonate
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#### Photometric Information:

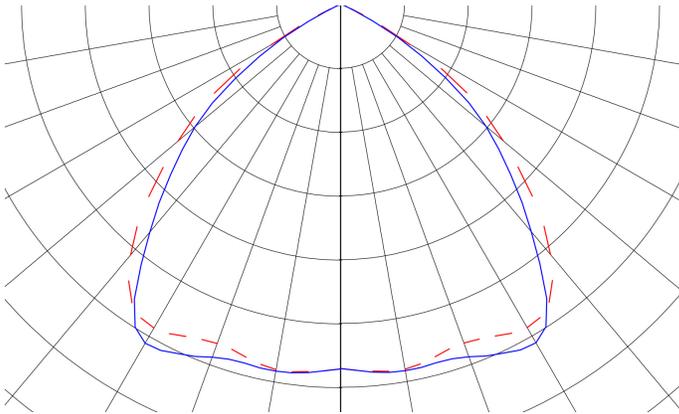
<b>CRI:</b>	80
<b>CCT:</b>	5000K (cool white) 4000K (neutral white)
<b>IES files:</b>	Available at <a href="http://www.dialight.com">www.dialight.com</a>

All values typical unless otherwise stated (tolerance +/- 10%)

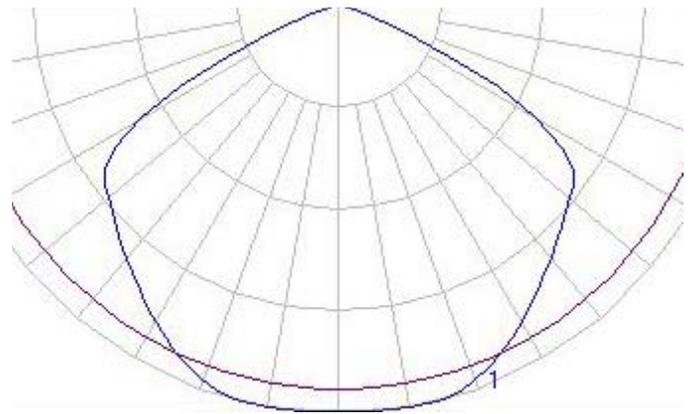
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# Beam Distribution

Medium



Wide



# In Rush Currents

Lumen Family	Wattage	In rush current @ input voltage			Time duration of in rush current @ input voltage		
		120 VAC	230 VAC	277 VAC	120 VAC	230 VAC	277 VAC
9K+	71	8A	15A	18A	1ms	1ms	1ms
7K+	52	8A	15A	18A	1ms	1ms	1ms
4.5K+	38	8A	15A	18A	1ms	1ms	1ms
2.5K+	24	8A	15A	18A	1ms	1ms	1ms

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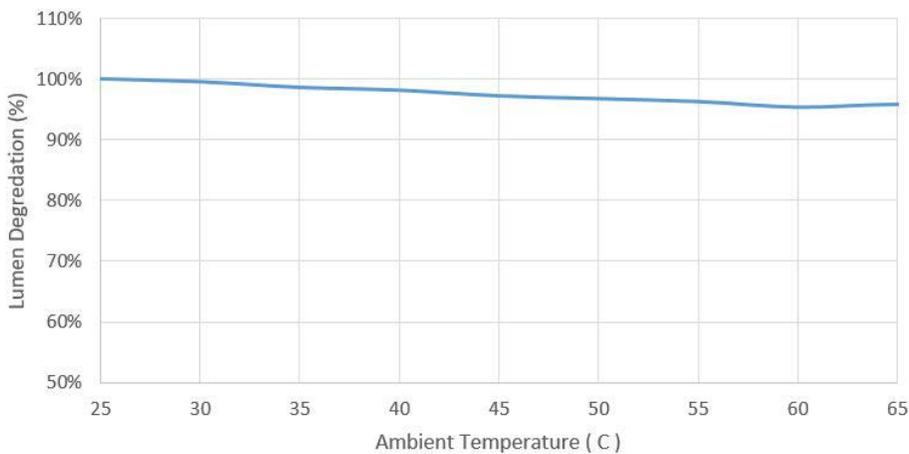
# Lumen Maintenance Factor

Lumen Maintenance Factor									
Time (Hours)									
Ambient (°C)	0	15000	30000	45000	60000	75000	90000	100000	150000
25°	100	98	96	95	94	92	91	90	86
30°	100	97	96	95	93	92	91	90	86
35°	99	96	95	94	92	91	90	89	85
40°	98	96	95	93	92	91	89	89	84
45°	97	95	94	92	91	90	89	88	84
50°	97	94	93	92	91	89	88	87	83
55°	96	94	93	91	90	89	88	87	83
60°	95	93	92	91	89	88	87	86	82
65°	96	94	92	91	90	88	87	86	82

Measured LED temperature for an ambient temperature range of 25°C to 65°C and calculated lumen maintenance using TM-21 calculator and LED LM80 data.

# Thermal Roll-Off

Thermal Roll-off 9000lm



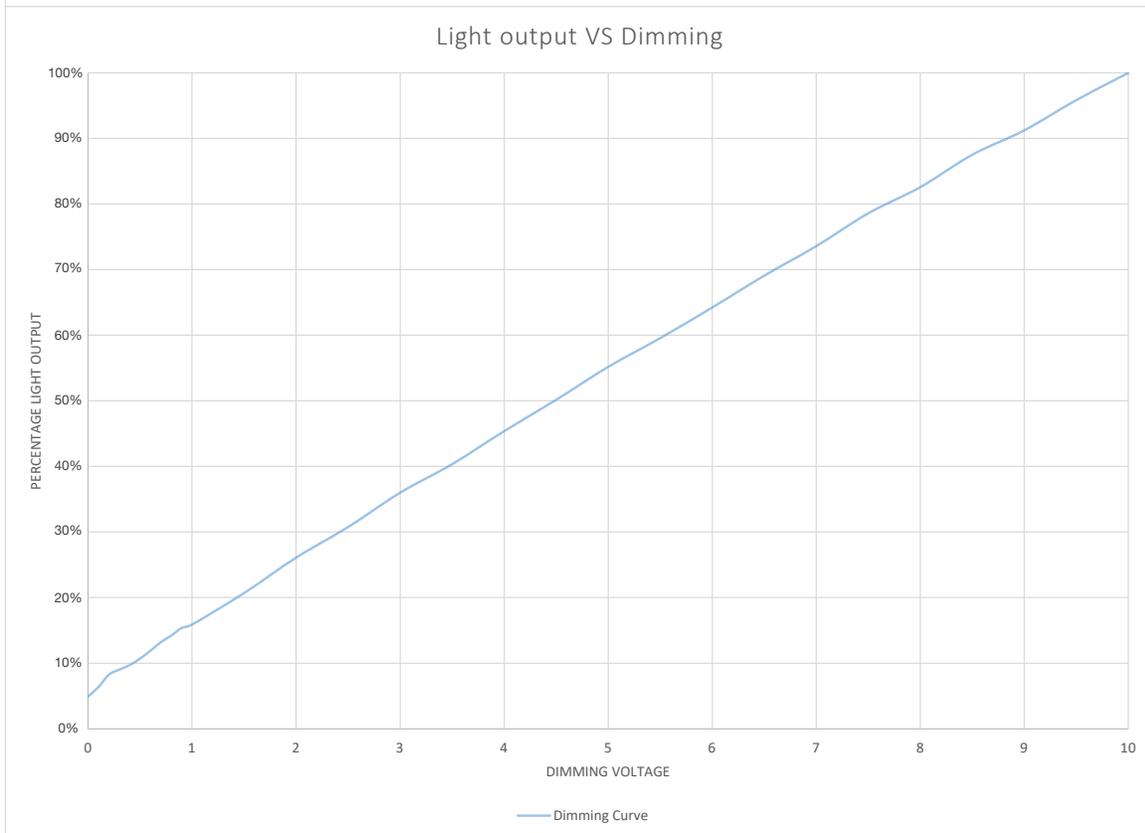
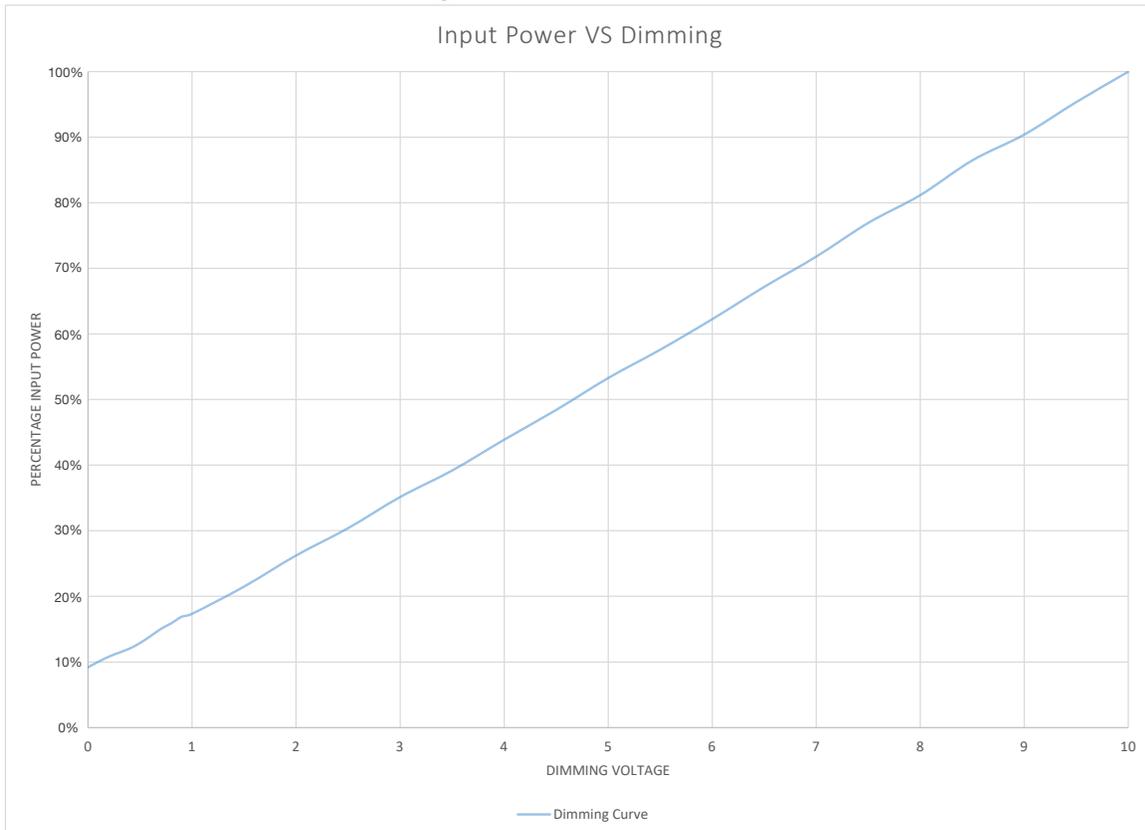
Ambient Temperature (°C)	Lumen Degradation
25°	100%
30°	100%
35°	99%
40°	98%
45°	97%
50°	97%
55°	96%
60°	95%
65°	96%

All values typical unless otherwise stated (tolerance +/- 10%)

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# Dimming

## Dimming Characterization 0-10V



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### ENGINE SYSTEM

- Mitsubishi® L3E
- Diesel fueled
- EPA Tier 4 Final
- 3 cylinder
- 0.95 L displacement
- Power @ 1,800 rpm – HP (kW):
  - Prime: 11.3 (8.4)
  - Standby: 12.2 (9.1)
- Air filter: Dry type cartridge

### Fuel System

- Polyethylene tank – 39.9 gal (151.04 L) capacity
- Run time – hr:
  - Lights only: 164\*
  - 100% load: 67\*
- Fuel consumption – gph (Lph):
  - Lights only: 0.243 (0.920)\*
  - 100% load: 0.594 (2.25)\*
- Fill port diameter: 3.5 in (89 mm)

### Cooling System

- Liquid cooled

### Lubrication System

- Oil filter: Full flow, spin-on type
- 1,000-hr service interval\*\*

*\*Data based on engine manufacturer and field test data after 100-hr engine break-in period. Actual results may vary, according to factors such as age and maintenance of equipment, environmental conditions, and fuel density. For fuel and maintenance recommendations, see owner's manual.*

*\*\*For maximum service interval, replace oil filter after 50-hr break-in period. For oil filter model number, see owner's manual.*

### GENERATOR

- 60 Hz engine/generator
- Marathon Electric® brushless
- Up to 6 kW output
- 120/240 VAC, 20/30 A
- ± 6% capacitor voltage regulation

### CONTROLS

- Illuminated control panel with sealed switches
- Key-activated switch with 4 positions (OFF, RUN, GLOW PLUG, START)
- One switch controls all light fixtures
- Digital hour meter
- Automatic shutdown for low oil pressure and high coolant temperature
- Wet-stacking mitigation

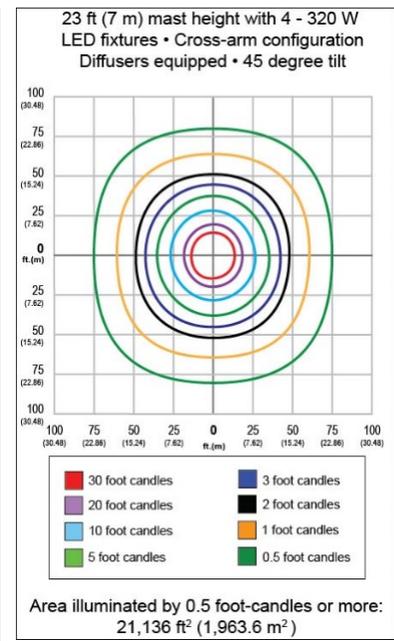
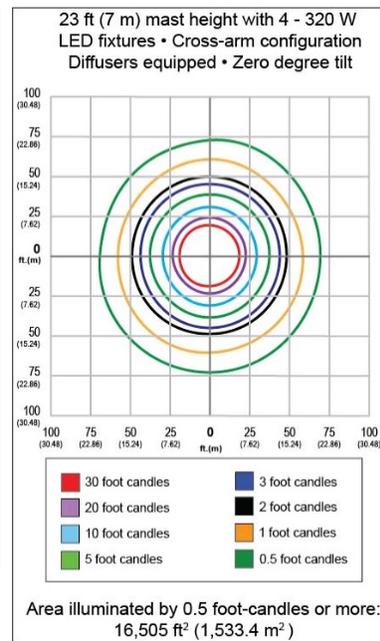
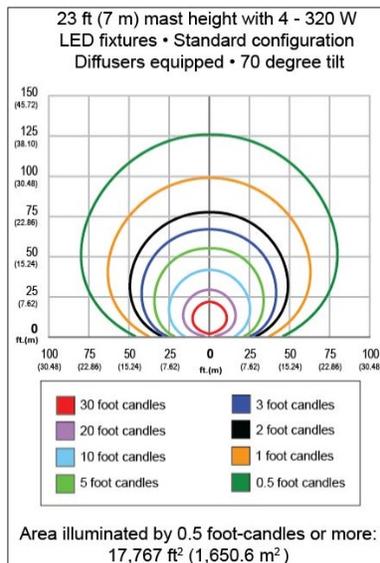
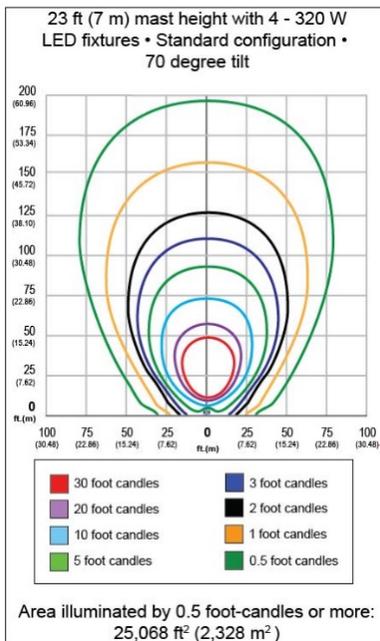


Picture shown may not reflect actual configuration.

## FLOODLIGHTS

- Four 320 W LED fixtures
- Aluminum and polymer housing
- Efficiency: 147 lpw
- Lm/fixture: 47,000
- Total lm: 188,200
- Coverage at 0.5 ft-c: 25,068 ft<sup>2</sup> (2,329 m<sup>2</sup>)
- IP65 rated fixtures
- Fixture-mounted drivers

## Illumination Data



## ELECTRICAL SYSTEM

- 30 A start trip breaker (ensures no-load condition exists at start-up)
- Floodlight circuits with sealed 10 A breakers
- Convenience receptacles with individual breakers:
  - One 120 VAC, 20 A, GFCI, duplex outlet (NEMA 5-20R type)
  - One 240 VAC, 30 A, twistlock outlet (NEMA L14-30R type)
- Wiring is sized and fused to required amperage draw
- 440 CCA wet cell battery

## MAST

- Vertical operation and storage
- Five tubular steel sections with polymer guides
- Ground-adjustable light fixtures
- Winch: Dual handle, manual crank
- Distinctive angled fixture mount for common light distribution
- Rotation: 359° range of motion, adjustable from ground during full extension
- Industrial black powder-coat finish
- Self-retracting, coiled mast cord

**ENCLOSURE**

- Hood:
  - Injection-molded with UV protected colorant
  - Flip-up design for ease of service
- Sound rating: 63 dB(A) at 23 ft (7 m) @ prime power
- Lifting point and fork pockets
- Multi-lingual operating and safety decals
- Illuminated license plate holder
- Document holder with owner's manual – includes AC and DC wiring diagrams

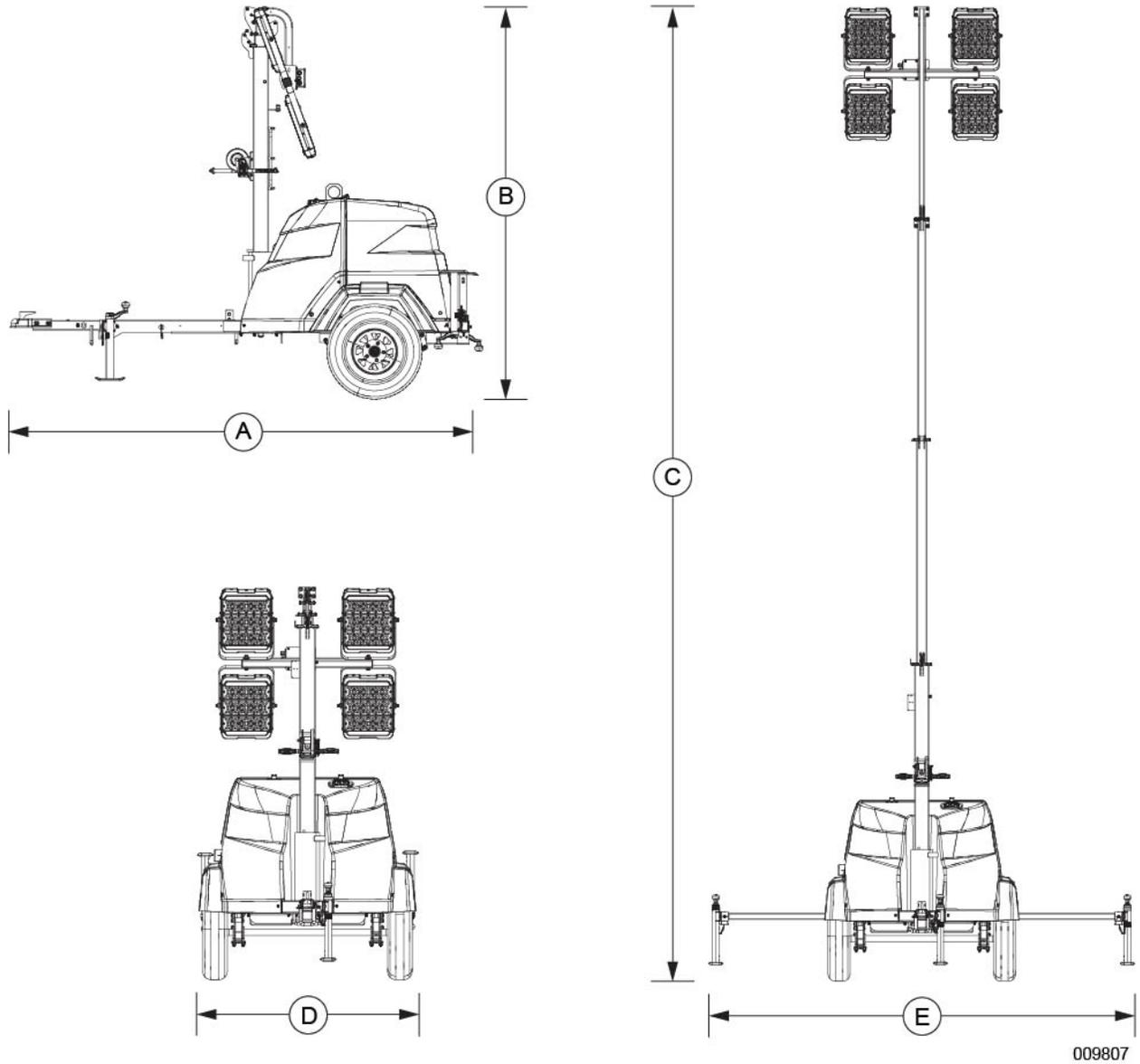
**TRAILER**

- Tubular steel frame
- 2 in (50.8 mm) ball hitch
- Three 1,200 lb (544 kg) leveling jacks – lockable into stowed positions
- Folding tongue
- Side outriggers
- 7,800 lb (3,538 kg) safety chains with spring loaded safety hooks
- Transportation tie-downs
- DOT approved LED lights: Tail, side, brake, and directionals
- 2,200 lb (998 kg) leaf spring axle
- Tires: ST175/80D13, 6 ply

**OPTIONS**

- Electric winch
- Winch cover
- Positive air shutdown
- Tandem tow
- Battery charger
- Battery disconnect
- Power Zone® controller
- Telemetry
- Lower radiator hose heater
- Fuel filter heater

#### DIMENSIONS



A	B	C	D	E
118 in (3 m)	101 in (2.6 m)	23 ft (7 m)	10 ft (3.05 m)	57 in (1.45 m)

#### WEIGHT

- Dry: 1,310 lb (594 kg)
- Operating: 1,600 lb (726 kg)

**AMBIENT CLIMATE RATINGS**

- Maximum wind speed: 65 mph (105 km/h)
- Maximum air temperature – °F (°C):
  - Lights only: 120 (49)
  - 100% load: 104 (40)

**WARRANTY**

- Tower: 1 year, unlimited hours/2 years, 2,000 hours
- LED modules and drivers: 5 year limited warranty

**CERTIFICATIONS**

CSA approved, listed

**FOR MORE INFORMATION**

Owner's manual is available at [www.generacmobileproducts.com/service-support/manuals](http://www.generacmobileproducts.com/service-support/manuals).

Project		Catalog #		Type	
Prepared by		Notes		Date	



# Lumark

## LAS

Area / Site Luminaire

### Typical Applications

Outdoor • Parking Lots • Walkways • Building Areas

### Interactive Menu

- Stock Ordering Information [page 2](#)
- Ordering Information [page 2](#)
- Product Specifications [page 2](#)
- Mounting Details [page 2](#)
- Energy and Performance Data [page 2](#)
- Controls Options [page 3](#)

### Quick Facts

- 10-position lumen selectable across 2 housing sizes
- Lumen packages range from 4,900 - 34,000 lumens (30W - 250W)
- Replaces up to 450W and 1,000W HID equivalent
- Efficacies up to 135 lumens per watt at maximum output
- Energy and maintenance savings up to 79% versus HID solutions

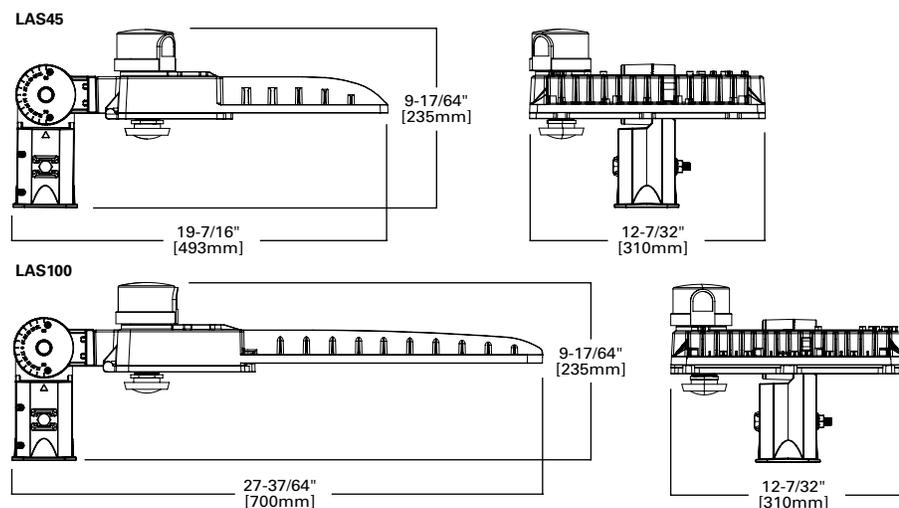
### Product Certifications



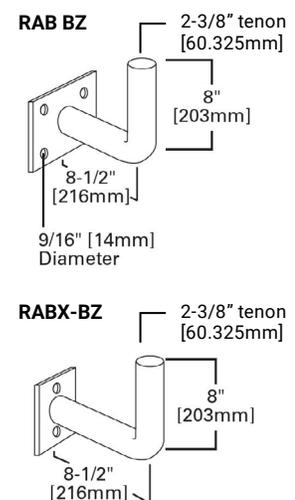
### Product Features



### Dimensional Details



### Mounting Accessories



### Stock Ordering Information

SAMPLE NUMBER: **LAS45S-T4**

Model Number <sup>1</sup>	Distribution	Voltage
LAS45S=450W HID Equivalent, 10-Position Lumen Selectable LAS100S=1,000W HID Equivalent, 10-Position Lumen Selectable	T3=Type III T4=Type IV T5=Type V	[Blank]=Universal, 120-277V HV=High Voltage, 347-480V <sup>2</sup>
<b>NOTES:</b> 1. DesignLights Consortium® Qualified. Refer to <a href="http://www.designlights.org">www.designlights.org</a> Qualified Products List under Family Models for details. 2. Supplied with shorting cap. Use NEMA 3-PIN twistlock photocontrol that matches the input voltage used (either 347V or 480V) as desired.		

### Ordering Information

SAMPLE NUMBER: **LAS45-T4-MS/DIM-L40W**

Model Number <sup>1,2</sup>	Distribution	Voltage	Options	Accessories (Order Separately)
LAS45=450W HID Equivalent LAS100=1,000W HID Equivalent	T3=Type III T4=Type IV T5=Type V	[Blank]=Universal, 120-277V HV=High Voltage, 347-480V	MS/DIM-L40W=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height	FSIR-100=Wireless Configuration Tool for Motion Sensor <sup>3</sup> RABBZ=Wall Mount Tenon Adapter RABX-BZ=Pole Mount Tenon Adapter
<b>NOTES:</b> 1. DesignLights Consortium® Qualified. Refer to <a href="http://www.designlights.org">www.designlights.org</a> Qualified Products List under Family Models for details. 2. Standard lead times apply. Sensor versions do not include lumen select switch. Max light output can be field-programmed via the motion sensor with the accessory configuration tool. 3. This tool enables adjustment to Motion Sensor (MS) parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative for more information.				

### Product Specifications

#### Construction

- Die-cast aluminum housing with hinged, die-cast aluminum door
- Slipfitter mounts 2-3/8" vertical or horizontal tenons. Downward facing only.
- IP65 rated housing enclosure
- 10-position lumen select switch accessible via hinged housing door

#### Optics

- UV-resistant polycarbonate optics
- Full cutoff when mounted at 0 degrees tilt
- 4000K CCT, 70CRI minimum standard
- IP66 optical enclosures

#### Electrical

- -40°C minimum operating temperature
- 40°C maximum operating temperature
- >0.9 power factor
- <20% total harmonic distortion
- Class P drivers incorporate internal MOVs designed to withstand 6kV of surge
- 0-10V dimming driver is standard
- 3-PIN NEMA twistlock photocontrol receptacle and photocontrol included (UNV configurations)

#### Finish

- Standard color is bronze
- Finish only warrantied for a period of 1 year

#### Shipping Data

- LAS45: 14.0 lbs. (6.4 kgs.)
- LAS100: 18.0 lbs. (8.2 kgs.)

### Mounting Details

#### Mounting Configurations and EPAs

POWER	Mounting	Tilt							
			1	2 @ 90°	2 @ 120°	2 @ 180°	3 @ 90°	3 @ 120°	4 @ 90°
LAS45	Slipfitter	0°	0.48776	0.77155	1.10981	0.9737	1.25749	1.32041	1.26178
LAS45	Slipfitter	10°	0.48815	0.85358	1.21680	0.97500	1.30520	1.53192	1.30650
LAS45	Slipfitter	20°	0.48802	1.15778	1.44040	0.97656	1.64372	2.10210	1.64619
LAS45	Slipfitter	30°	0.48776	1.41297	1.66088	0.97188	1.89241	2.58219	1.89605
LAS45	Slipfitter	45°	0.48672	1.73303	1.97171	0.97448	2.21949	3.20801	2.22430
LAS100	Slipfitter	0°	0.60398	0.88777	1.23721	1.20770	1.48902	1.52074	1.49162
LAS100	Slipfitter	10°	0.60385	1.17130	1.54141	1.20380	1.76462	2.10002	1.76514
LAS100	Slipfitter	20°	0.60359	1.59679	1.91997	1.20224	2.19141	2.90810	2.19466
LAS100	Slipfitter	30°	0.60320	1.99550	2.28956	1.20354	2.59064	3.67016	2.59545
LAS100	Slipfitter	45°	0.60346	2.47832	2.77628	1.20094	3.06969	4.65127	4.37489

### Energy and Performance Data

#### Lumen Maintenance

Ambient Temperature	TM-21 Lumen Maintenance (54,000 Hours)	Theoretical L70 (Hours)
Up to 40°C	85.80%	126,000

## Energy and Performance Data (cont.)

[View LAS IES files](#)

### Power and Lumens (LAS45)

Lumen Select Switch	Position 0 (Factory Preset)	1	2	3	4	5	6	7	8	9	
<b>Power (Watts)</b>	152.7	135.4	119.7	99.2	89.5	79.2	75.2	68.8	29.3	29.3	
<b>Input Current @ 120V (A)</b>	1.27	1.13	1.00	0.83	0.75	0.66	0.63	0.57	0.27	0.27	
<b>Input Current @ 277V (A)</b>	0.58	0.53	0.48	0.42	0.39	0.36	0.34	0.32	0.19	0.19	
<b>Input Current @ 347V (A)</b>	0.45	0.40	0.36	0.30	0.27	0.24	0.23	0.21	0.10	0.10	
<b>Input Current @ 480V (A)</b>	0.33	0.30	0.27	0.23	0.21	0.19	0.19	0.17	0.09	0.09	
<b>Distribution</b>											
<b>T3 (Type III)</b>	Lumens	20,089	18,434	16,810	14,515	13,360	12,083	11,550	10,705	4,901	4,901
	BUG Rating <sup>1</sup>	B3-U0-G3	B2-U0-G2	B1-U0-G1	B1-U0-G1						
	Lumens per Watt	132	136	140	146	149	153	154	156	167	167
<b>T4 (Type IV)</b>	Lumens	19,720	18,095	16,502	14,249	13,115	11,862	11,338	10,509	4,811	4,811
	BUG Rating <sup>1</sup>	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3	B1-U0-G2	B1-U0-G2
	Lumens per Watt	129	134	138	144	147	150	151	153	164	164
<b>T5 (Type V)</b>	Lumens	19,956	18,311	16,698	14,418	13,271	12,003	11,473	10,634	4,868	4,868
	BUG Rating <sup>1</sup>	B3-U0-G3	B4-U0-G2	B4-U0-G2	B3-U0-G2	B3-U0-G2	B3-U0-G2	B3-U0-G1	B3-U0-G1	B2-U0-G1	B2-U0-G1
	Lumens per Watt	131	135	139	145	148	152	153	155	166	166
<b>NOTES:</b>											
1. All BUG Ratings reported with fixture oriented at 0 degrees.											

### Power and Lumens (LAS100)

Lumen Select Switch	Position 0 (Factory Preset)	1	2	3	4	5	6	7	8	9	
<b>Power (Watts)</b>	251.0	222.2	196.4	162.8	146.8	129.9	123.4	112.9	48.0	48.0	
<b>Input Current @ 120V (A)</b>	2.09	1.86	1.64	1.36	1.23	1.09	1.03	0.95	0.41	0.41	
<b>Input Current @ 277V (A)</b>	0.90	0.82	0.73	0.62	0.57	0.52	0.50	0.46	0.28	0.28	
<b>Input Current @ 347V (A)</b>	0.74	0.66	0.59	0.49	0.44	0.40	0.38	0.34	0.15	0.15	
<b>Input Current @ 480V (A)</b>	0.55	0.49	0.44	0.37	0.34	0.30	0.29	0.27	0.13	0.13	
<b>Distribution</b>											
<b>T3 (Type III)</b>	Lumens	33,965	31,166	28,421	24,541	22,588	20,429	19,527	18,100	8,286	8,286
	BUG Rating <sup>1</sup>	B4-U0-G4	B4-U0-G4	B4-U0-G4	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B2-U0-G2	B2-U0-G2
	Lumens per Watt	135	140	145	151	154	157	158	160	173	173
<b>T4 (Type IV)</b>	Lumens	33,342	30,594	27,900	24,090	22,174	20,055	19,169	17,768	8,134	8,134
	BUG Rating <sup>1</sup>	B4-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B2-U0-G2	B2-U0-G2
	Lumens per Watt	133	138	142	148	151	154	155	157	169	169
<b>T5 (Type V)</b>	Lumens	33,740	30,959	28,232	24,378	22,438	20,294	19,398	17,980	8,231	8,231
	BUG Rating <sup>1</sup>	B5-U0-G3	B5-U0-G3	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B3-U0-G1	B3-U0-G1
	Lumens per Watt	134	139	144	150	153	156	157	159	171	171
<b>NOTES:</b>											
1. All BUG Ratings reported with fixture oriented at 0 degrees.											

## Control Options

### Dimming Occupancy Sensor (MS)

These sensors are factory installed in the luminaire housing. When a sensor for dimming operation (/DIM) option is selected, the luminaire will dim down to approximately 50 percent power after five minutes of no activity detected. When activity is detected, the luminaire returns to full light output. These occupancy sensors include an integral photocell that can be activated or inactivated with the programming remote / configuration tool for "dusk-to-dawn" control or "daylight harvesting". Note: For MS sensors, the factory preset is OFF (Disabled). The programming remote / tool is a wireless tool that can be utilized to change the dimming level, time delay, sensitivity and other parameters. The sensor lens optimizes the coverage pattern for mounting heights from 20'-40'.

