

APPLICATIONS

Our CLMAL-50 series is a group of premium architectural/commercial LED area luminaires designed to illuminate parking areas, pathways, building facades, loading docks, and a wide variety of other large, general site lighting applications. Multiple mounting options make the CLMAL-50 a versatile luminaire for flood lighting, pole-, ground- and wall-mounted area lighting, and other outdoor lighting requirements.



FEATURES

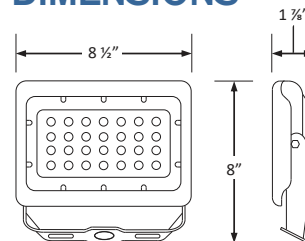
- Available in 3000k (warm white), 4000k (neutral white) and 5000k (cool white) color temperatures.*
- Long-life LEDs provide 230,000 hours of operation with at least 70% of initial lumen output (L₇₀).**
- CLMAL-50 provides 5,717 lumens (117 lumens per watt, LPW) at 3000k; 5,778 lumens (118 LPW) at 4000k; and 5,793 lumens (118 LPW) at 5000k.*
- Standard optic provides an IES roadway type V distribution, or a 7V (vertical) x 7H (horizontal) NEMA floodlight distribution.
- Universal 120-277 AC voltage (50-60Hz) is standard.
- Power factor > 0.90.
- Total harmonic distortion < 20%.
- Color rendering index > 80.
- Optional glare shields (full & half) & wire guards are available.
- Die cast aluminum housing with durable, dark bronze powder coat finish—at least 2 mils thick on all surfaces—and a heat-resistant polycarbonate lens.
- Wireway enclosure is sealed with a water-tight, silicon rubber gasket.
- Effective projected areas (EPA's) are:
 - Front = 0.15 s.f. (knuckle) / 0.13 s.f. (yoke)
 - Side = 0.18 s.f. (knuckle) / 0.13 s.f. (yoke)
 - Face = 0.73 s.f. (knuckle) / 0.57 s.f. (yoke)
- Easy installation in new construction or retrofit applications.

* Contact factory for other color temperatures and lumen packages.

** L₇₀ hours are IES TM-21-11 calculated hours.



DIMENSIONS



MOUNTING OPTIONS

- Aluminum die-cast knuckle-mount option is installed on a junction box. Includes 1/2" NPS stem with locking nut.
- Yoke-mount option provides secure attachment to flat surfaces.

WARRANTY & LISTINGS

- cULus listed for wet locations in ambient temperatures from -20°C to 45°C (-4°F to 113°F).
- IP66 rated for ingress protection.
- DLC premium approved.
- Rated for 3G vibration.
- Lens is IK 8 rated for protection from external impacts.
- Salt fog tested for 1,000 hours (ASTM B117). After salt fog testing, paint rated at 9 per ASTM D1654-05 scratch test.
- Complies with FCC Part 15, class B.
- Complies with EN61000-4-5, surge immunity protection (2kV).
- 5-year warranty of all electronics and housing.

PRODUCT PARAMETER

MODEL	LUMINAIRE WATTS	LUMINAIRE LUMENS	LUMENS PER WATT	MOUNTING OPTIONS	COLOR TEMPERATURE	SHIELDS & WIRE GUARDS (SEE LINE DRAWINGS)
CLMAL-50	50	5717	117	K = Knuckle Mount Y = Yoke Mount	30 = 3000k	-50FGS = Full Glare Shield, 50W
	50	5778	118		40 = 4000k	-50HGS = Half Glare Shield, 50W
	50	5793	118		50 = 5000k	-50WG = Wire Guard, 50W

ELECTRICAL DATA

MODEL	COLOR TEMP.	CRI ¹	LUMINAIRE LUMENS	LUMINAIRE WATTS	LUMENS/WATTS	INPUT VOLTAGE ²	INPUT CURRENT (A)			POWER FACTOR	THD ³	L ₇₀ HOURS ⁴
							120V	240V	277V			
CLMAL-5030	3000k	>80	5717	50	117	120-277	0.41	0.20	0.18	>90%	<20%	230,000
CLMAL-5040	4000k	>80	5778	50	118	120-277	0.41	0.20	0.18	>90%	<20%	230,000
CLMAL-5050	5000k	>80	5793	50	118	120-277	0.41	0.20	0.18	>90%	<20%	230,000

¹ Color rendering index.

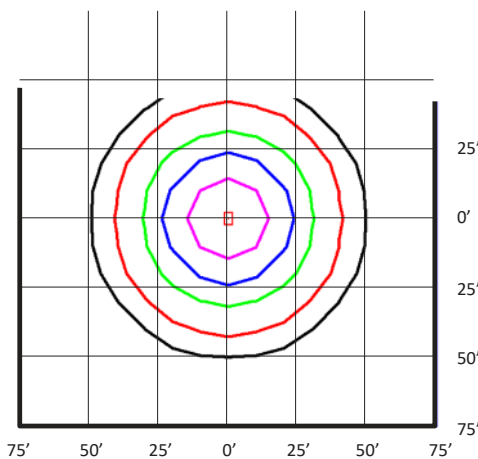
² All 50-60Hz.

³ Total harmonic distortion.

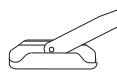
⁴ L₇₀ refers to the number of hours at which lumen output declines to 70% of the initial level. L₇₀ hours are IES TM-21-11 calculated hours.

PHOTOMETRIC DATA

CLMAL-5030 (5,717 Lumens, Type V Distribution)



Luminaire Orientation:

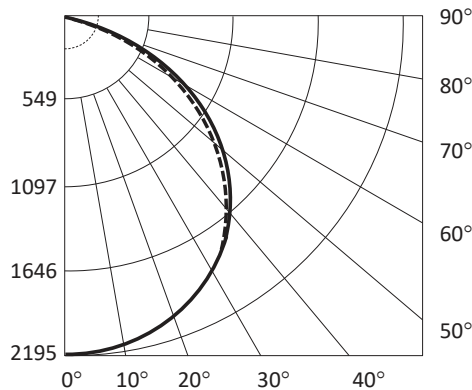


- 2.0
- 1.0
- 0.5
- 0.2
- 0.1

Notes:

- Isofootcandle plots depict initial footcandles at grade.
- Gridlines represent units of mounting height of 25 feet.

FVH - Front - Very High (80-90)	9	0%
BL - Back - Low (0-30)	852	15%
BM - Back - Medium (30-60)	1,592	28%
BH - Back - High (60-80)	383	7%
BVH - Back - Very High (80-90)	7	0%
Total Back Light	2,834	50%
UL - Up Light - Low (90-100)	0	0%



Maximum Candela = 2195

- Horizontal
- - - Vertical

NEMA Floodlight Type Data

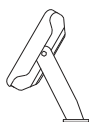
Field Angles:

- Horizontal 148°
- Vertical 149°

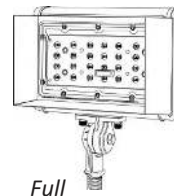
NEMA Type:

- Horizontal 7H
- Vertical 7V

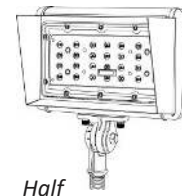
Luminaire Orientation:



Shields



Full



Half

Wire Guards

