

DESCRIPTION

The Concise™ LED luminaire features a rugged and low profile housing construction incorporating patent pending, modular LED LightBAR™ technology. Through superior optical control, the Concise luminaire delivers uniform and energy conscious illumination optimized to improve vehicular movement and pedestrian safety. UL/cUL listed for wet locations.

Catalog #		Type
Project		
Comments		Date
Prepared by		

SPECIFICATION FEATURES

Construction

One-piece, low copper die-cast aluminum housing features heavy wall construction for superior heat transfer and resistance to corrosion. Formed aluminum faceplate is secured via four stainless steel fasteners and is recessed for clean mating of door and housing. Optional tamper-proof Torx™-head fasteners offer vandal resistant access to the electrical compartment.

Optics

Choice of nine patented, high-efficiency AccuLED Optics™ distributions. Optics are precisely designed to shape the light output, maximizing efficiency and application spacing. AccuLED Optics technology creates consistent distributions with the scalability to meet customized application requirements. Offered Standard in 4000K (+/- 275K) CCT and minimum 70 CRI. Optional 3000K CCT, 5000K CCT and 5700K CCT.

Electrical

LED drivers mount to die-cast aluminum back housing for optimal heat sinking, operation efficacy, and prolonged life. Standard drivers feature electronic universal voltage (120-277V 50/60Hz), 347V 60Hz or 480V 60Hz operation. 480V is compatible for use with 480V Wye systems only. Greater than 0.9 power factor, less than 20% harmonic distortion, and is suitable for operation in -40°C to 40°C ambient environments. All fixtures are shipped standard with 10kV/10kA common – and differential – mode surge protection. LightBARs feature an IP66 enclosure rating and maintain greater than 95% lumen maintenance at 60,000 hours per IESNA TM-21. Occupancy sensor and dimming options available.

Mounting

Standard fixture mounts to a square or octagonal 4" surface or recessed j-box via heavy gauge painted quick mount box complete with toolless removable cable allowing for hands-free fixture wiring. Single carton packaging of

housing and quick mounting box for contractor friendly arrival of product to site. Optional mounting methods include rigid or free swinging pendant, trunnion mount and wall mount and surface mount configurations.

Finish

Cast components and mounting box finished in a super TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Standard colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available.

Warranty

Five-year warranty.



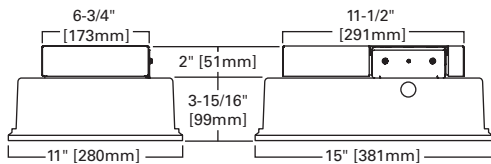
CNC CONCISE LED

1 - 4 LightBARs
Solid State LED

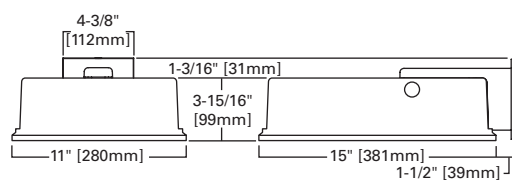
CANOPY LUMINAIRE

MOUNTING METHODS

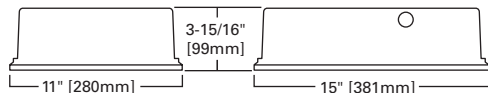
J-Box Mount [Standard]



Wall Mount [WM]



Surface Mount [SM]



CERTIFICATION DATA

UL/cUL Listed
LM79 / LM80 Compliant
IP65 Fixture Rating
IP66 LightBARs
ISO 9001

ENERGY DATA

Electronic LED Driver
>0.9 Power Factor
<20% Total Harmonic Distortion
120V-277V/50 & 60Hz, 347V/60Hz,
480V/60Hz
-40°C Minimum Temperature
40°C Ambient Temperature Rating
50°C Ambient Temperature Rating (HA option)

SHIPPING DATA

Approximate Net Weight:
16 lbs. (8 kgs.)

POWER AND LUMENS BY BAR COUNT (21 LED LIGHTBARS)

Number of LightBARS		E01	E02	E03	E04
Drive Current		350mA Drive Current			
Power (Watts)		25W	52W	75W	97W
Current @ 120V (A)		0.22	0.44	0.63	0.82
Current @ 277V (A)		0.10	0.20	0.28	0.36
Power (Watts)		31W	58W	82W	99W
Current @ 347V (A)		0.11	0.19	0.28	0.29
Current @ 480V (A)		0.09	0.15	0.20	0.21
CQ	Lumens	3,108	6,215	9,323	12,431
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2
SQ	Lumens	3,066	6,131	9,197	12,262
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2
WQ	Lumens	3,092	6,184	9,276	12,368
	BUG Rating	B2-U0-G1	B3-U0-G2	B3-U0-G3	B4-U0-G3
GL2	Lumens	2,928	5,856	8,784	11,712
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2
GL3	Lumens	2,969	5,937	8,906	11,875
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2
GL4	Lumens	2,882	5,764	8,646	11,528
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2
RW	Lumens	3,004	6,007	9,011	12,015
	BUG Rating	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3
CPL/CPR	Lumens	2,693	5,387	8,080	10,774
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G3	B2-U0-G3

POWER AND LUMENS BY BAR COUNT (7 LED LIGHTBARS)

Number of LightBARS		F01	F02	F03	F04
Drive Current		1A Drive Current			
Power (Watts)		26W	55W	78W	102W
Current @ 120V (A)		0.22	0.46	0.66	0.86
Current @ 277V (A)		0.10	0.21	0.29	0.37
Power (Watts)		32W	60W	85W	105W
Current @ 347V (A)		0.11	0.19	0.28	0.30
Current @ 480V (A)		0.09	0.15	0.21	0.22
CQ	Lumens	2,565	5,131	7,696	10,262
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2
SQ	Lumens	2,531	5,061	7,592	10,123
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2
WQ	Lumens	2,553	5,105	7,658	10,210
	BUG Rating	B2-U0-G1	B3-U0-G2	B3-U0-G3	B4-U0-G3
GL2	Lumens	2,417	4,834	7,251	9,668
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B2-U0-G2
GL3	Lumens	2,451	4,901	7,352	9,803
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B2-U0-G2
GL4	Lumens	2,379	4,758	7,138	9,517
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G2
RW	Lumens	2,480	4,959	7,439	9,918
	BUG Rating	B1-U0-G1	B2-U0-G2	B3-U0-G3	B3-U0-G3
CPL/CPR	Lumens	2,224	4,447	6,671	8,894
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G3	B1-U0-G3

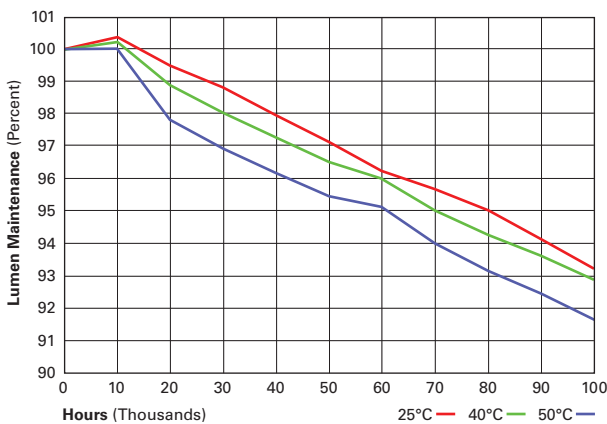
LUMEN MAINTENANCE

Ambient Temperature	25,000 Hours*	50,000 Hours*	60,000 Hours*	100,000 Hours	Theoretical L70 (Hours)
25°C	> 99%	> 97%	> 96%	> 93%	> 450,000
40°C	> 98%	> 97%	> 96%	> 92%	> 425,000
50°C	> 97%	> 96%	> 95%	> 91%	> 400,000

* Per IESNA TM-21 data.

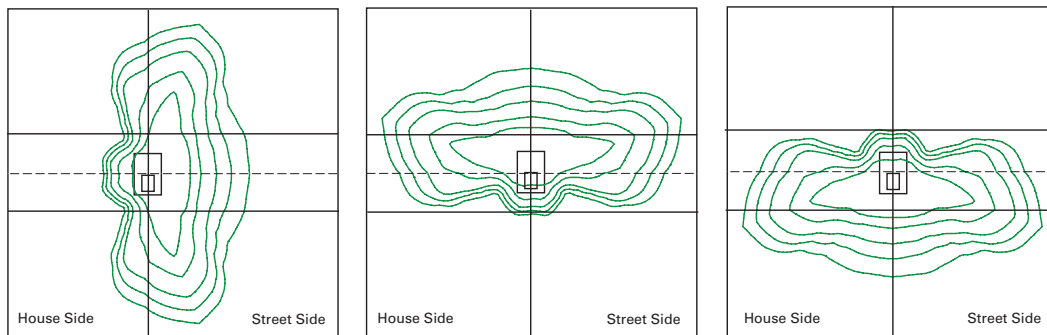
LUMEN MULTIPLIER

Ambient Temperature	Lumen Multiplier
10°C	1.02
15°C	1.01
25°C	1.00
40°C	0.99
50°C	0.96



OPTIC ORIENTATION

Dotted lines represent driving lanes.



ORDERING INFORMATION

Sample Number: CNC-E04-LED-E1-SQ-TW

Product Family	Number of LightBARs ^{1,2}	Lamp Type	Voltage	Distribution	Color
CNC=Concise	E01=(1) 21 LED LightBAR ³ E02=(2) 21 LED LightBARs E03=(3) 21 LED LightBARs E04=(4) 21 LED LightBARs F01=(1) 7 LED LightBAR ³ F02=(2) 7 LED LightBARs F03=(3) 7 LED LightBARs F04=(4) 7 LED LightBARs	LED=Solid State Light Emitting Diodes	E1=Electronic (120V-277V) 347=347V 480=480V ⁴	CQ=Concentrated Type V Square SQ=Type V Square WQ=Wide Type V Square GL2=Type II w/Glare Control GL3=Type III w/Glare Control GL4=Type IV w/Glare Control RW=Rectangular CPL=90° Forward Throw Perimeter Left CPR=90° Forward Throw Perimeter Right	AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic TW=True White
Options (Add as Suffix)					Accessories (Order Separately)
DIM=0-10V Dimming Drivers ⁵ HA=50°C High Ambient Temperature Rating ⁶ 2L=Two Circuits ^{7,8} WM=Wall Mount L90=Optics Rotated 90° Left R90=Optics Rotated 90° Right TR=Tamper-Resistant Fasteners TMB=Trunnion Mount with Connection Box (Some Assembly Required)		SM=Surface Mount ⁹ 7030=70 CRI / 3000K CCT ¹⁰ 7050=70 CRI / 5000K CCT ¹⁰ 7060=70 CRI / 5700K CCT ¹⁰ 8030=80 CRI / 3000K CCT ¹⁰ LCF=LightBAR Cover Plate Matches Housing Finish ICP=Integral Cold Weather Battery Pack (Specify 120V or 277V. Must Specify Voltage) ¹¹ OSX=Integral Occupancy Sensor (Specify Number of LightBARs) ¹²			MA1253=10kV Circuit Module Replacement RV/WG=Field-Installed Wire Guard

- NOTES:
- Standard 4000K CCT and greater than 70CRI.
 - 21 LED LightBAR powered at 350mA, 7 LED LightBAR powered at 1A.
 - Not available with 2L two circuits option.
 - Only for use with 480V Wye systems. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems).
 - Not available with HA option. Not available in E04 or F04 with 347V or 480V.
 - Not available in models with E04 or F04.
 - Available in models with E02-E04, or F02-F04. Low-level output varies by bar count specified. Consult factory.
 - Consult factory before ordering in combination with OSX option.
 - Surface mount configuration limited to 25°C ambient conditions.
 - Lead times apply. See website for IES files.
 - Available with E01 and F01 configurations only. Rated for 25°C ambient operating temperature.
 - Housed in external box mounted to the luminaire. Available in E02-E04 and F02-F04 configurations. Replace X with number of LightBARs (e.g., OS2) controlled by the occupancy sensor, default time delay setting is 15-minutes. Standard lens covers up to 12' mounting height, 360° and maximum 20' diameter. For other configurations, consult customer service.