

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P533320

Luminaire Tested: **GALN-SA8D-730-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533320
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-730-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51242 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

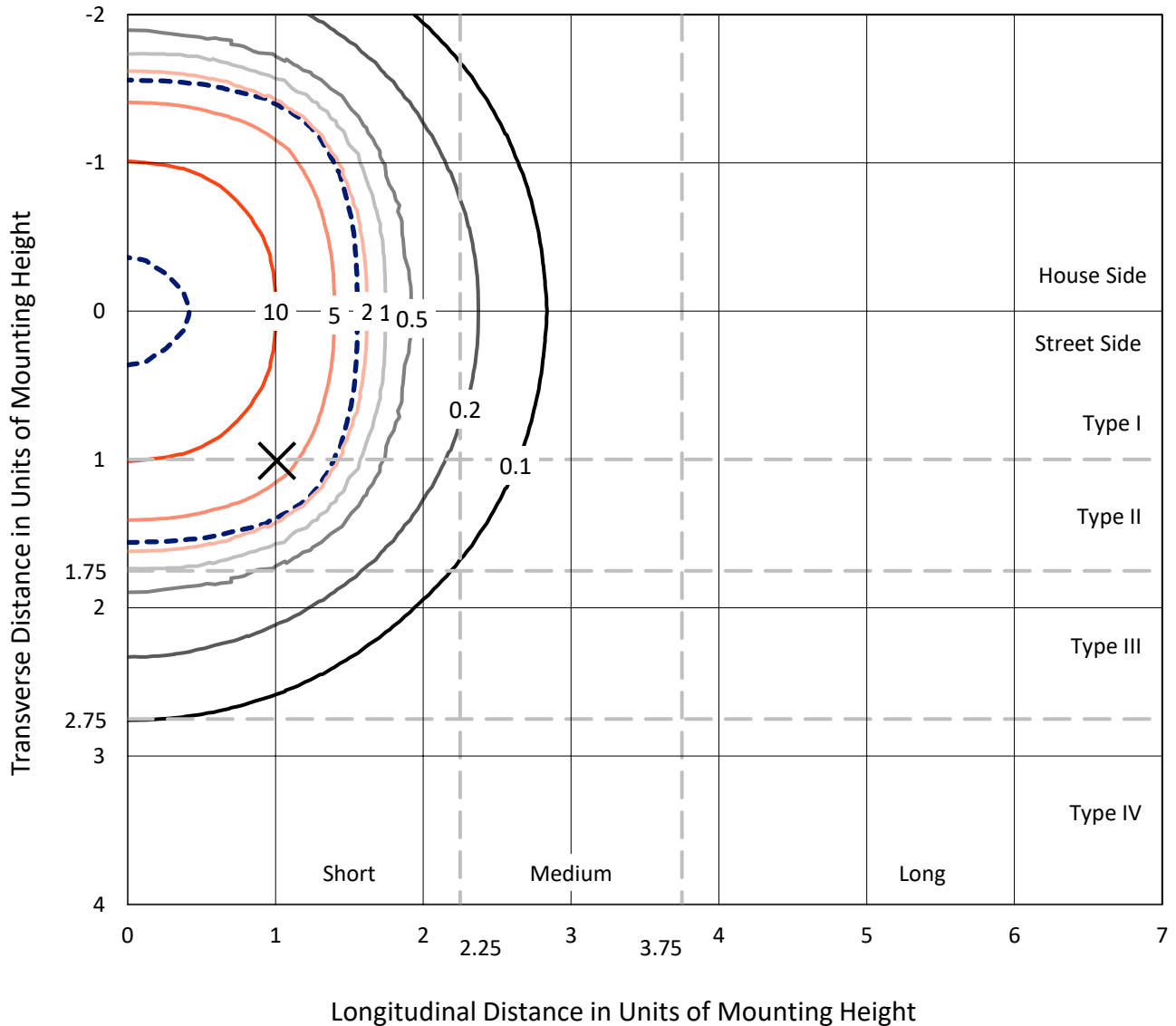




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Iso-Footcandle Lines of Horizontal Illumination

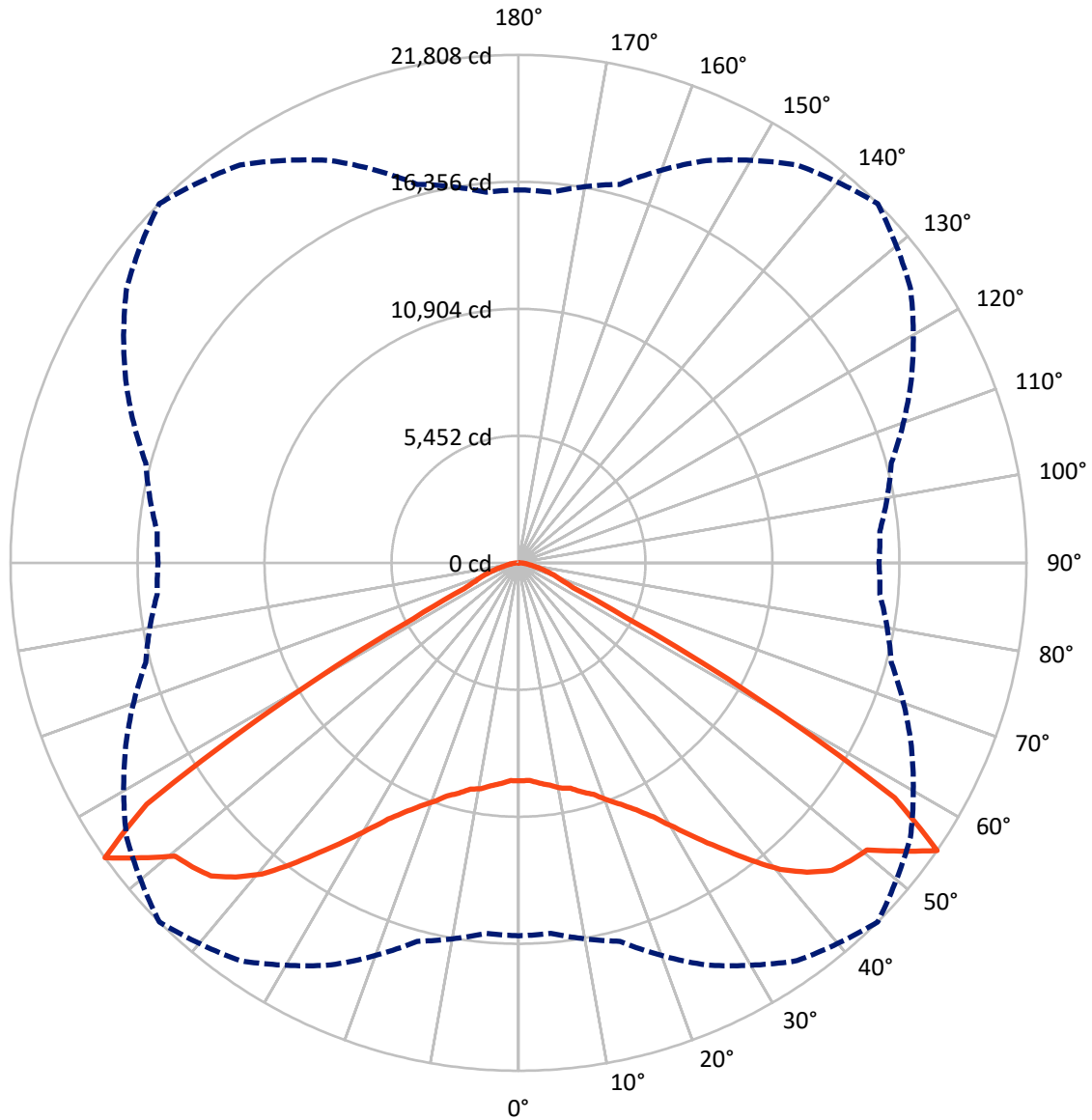
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25621.0	0.0	25621.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	25621.0	0.0	25621.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	51242.0	0.0	51242.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	914.0	1.8
10°-20°	2896.0	5.7
20°-30°	5400.1	10.5
30°-40°	9041.6	17.6
40°-50°	14069.4	27.5
50°-60°	14608.4	28.5
60°-70°	3098.0	6.0
70°-80°	1020.3	2.0
80°-90°	194.3	0.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	51242.0	100.0
0°-180°	51242.0	100.0

Coefficient of Utilization

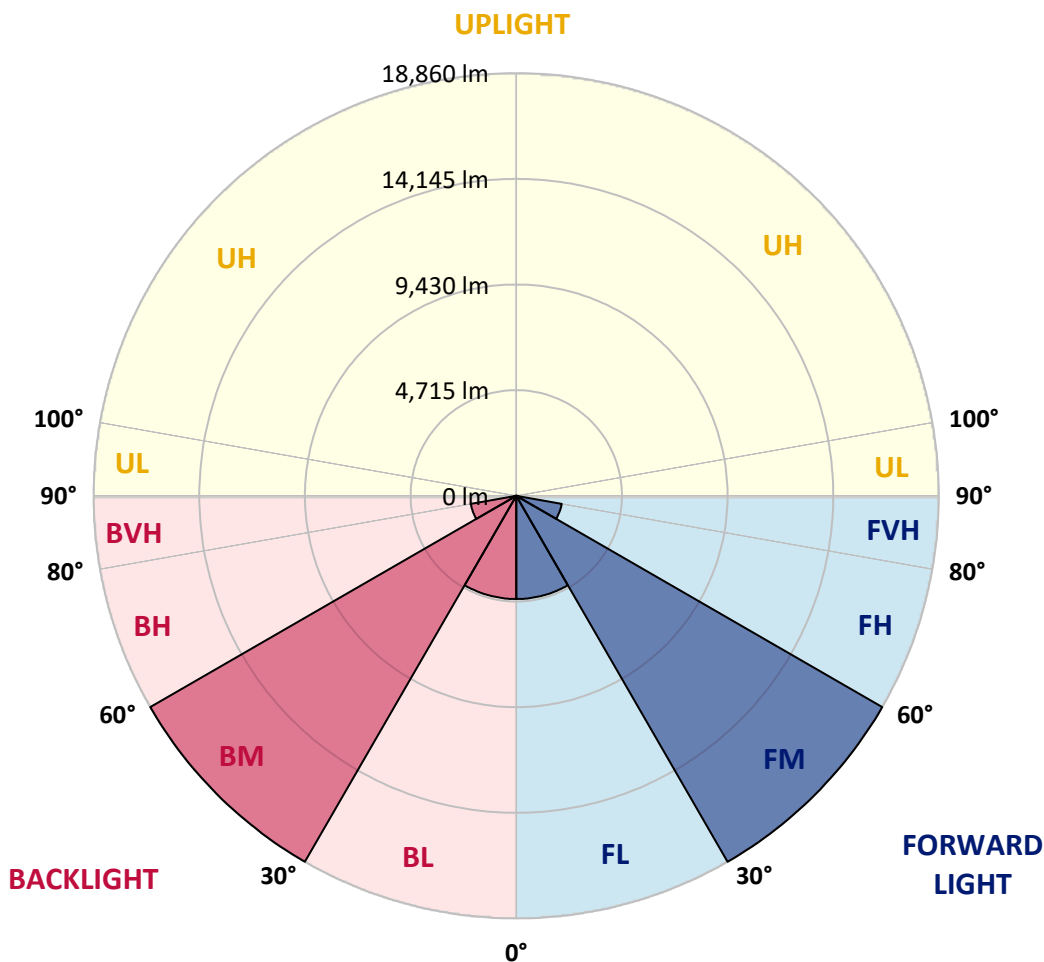


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4605.1	9.0			
FM (30°-60°)	18859.7	36.8			
FH (60°-80°)	2059.1	4.0			G2/5000
FVH (80°-90°)	97.2	0.2			G1/100
BL (0°-30°)	4605.1	9.0	B4/5000		
BM (30°-60°)	18859.7	36.8	B5		
BH (60°-80°)	2059.1	4.0	B3/2500		G2/5000
BVH (80°-90°)	97.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	9356.0	9356.0	9356.0	9356.0	9356.0	9356.0	9356.0	9356.0	9356.0	9356.0	9356.0
2.5°	9467.5	9424.1	9349.8	9405.6	9448.9	9356.0	9393.2	9411.8	9399.4	9349.8	9368.4
5°	9603.7	9578.9	9517.0	9560.4	9504.6	9504.6	9467.5	9417.9	9492.2	9479.9	9510.8
7.5°	9603.7	9572.7	9696.6	9616.1	9640.9	9640.9	9578.9	9529.4	9566.6	9510.8	9479.9
10°	9795.7	9839.0	9783.3	9801.8	9789.5	9832.8	9739.9	9709.0	9678.0	9659.4	9622.3
12.5°	10024.8	9993.8	10012.4	10000.0	10043.3	9931.9	9876.1	9808.0	9863.8	9783.3	9839.0
15°	10210.5	10191.9	10210.5	10260.0	10216.7	10210.5	10111.4	10043.3	9956.6	9975.2	9888.5
17.5°	10464.4	10445.8	10452.0	10495.3	10489.2	10458.2	10383.9	10253.9	10222.9	10173.4	10117.6
20°	10842.1	10811.1	10798.7	10817.3	10848.3	10873.1	10724.4	10674.9	10569.6	10489.2	10396.3
22.5°	11164.1	11151.7	11201.2	11120.7	11188.8	11263.1	11120.7	11096.0	10835.9	10792.6	10693.5
25°	11609.9	11591.3	11560.4	11678.0	11758.5	11752.3	11616.1	11479.9	11281.7	11232.2	11232.2
27.5°	12080.5	11975.2	12136.2	12167.2	12309.6	12352.9	12235.3	12037.1	11851.4	11746.1	11770.9
30°	12668.7	12569.6	12606.8	12829.7	13015.5	13176.5	12879.2	12588.2	12328.2	12142.4	12111.4
32.5°	13256.9	13157.9	13269.3	13486.1	13857.6	14099.1	13808.0	13300.3	12996.9	12724.4	12780.2
35°	13733.7	13808.0	13987.6	14315.8	14699.7	15089.8	14625.4	14235.3	13801.8	13498.4	13541.8
37.5°	14501.5	14730.6	14873.0	15250.8	15795.6	16198.1	15715.1	15207.4	14743.0	14346.7	14210.5
40°	15504.6	15659.4	15820.4	16266.2	16910.2	17312.7	16854.5	16191.9	15733.7	15325.1	15306.5
42.5°	16606.8	16755.4	16922.6	17467.5	17851.4	18154.8	17733.7	17380.8	16873.0	16551.1	16532.5
45°	17888.5	17783.3	17969.0	18328.1	18650.1	18848.3	18575.8	18402.5	18037.1	17739.9	17709.0
47.5°	18743.0	18650.1	18984.5	19306.5	19356.0	19139.3	19195.0	19356.0	18972.1	18482.9	18637.7
50°	19238.4	19238.4	19461.3	19758.5	19665.6	19387.0	19826.6	19839.0	19455.1	19021.6	19021.6
52.5°	18377.7	18569.6	19201.2	20173.3	20482.9	20563.4	20464.4	20043.3	19040.2	18154.8	18111.4
55°	16012.4	15969.0	16823.5	19052.6	20854.5	21808.0	20544.9	18606.8	16569.6	15572.7	15473.7
57.5°	10414.8	10464.4	11739.9	14012.4	17263.1	19040.2	16910.2	14185.7	11739.9	10365.3	10495.3
60°	4687.3	4854.5	5628.5	7325.1	10117.6	11566.5	10142.4	7696.6	5907.1	5126.9	5195.0
62.5°	2693.5	2724.5	2755.4	3269.3	4309.6	5096.0	4476.8	3455.1	3046.4	2910.2	2910.2
65°	2272.4	2253.9	2260.1	2303.4	2414.9	2575.8	2507.7	2414.9	2427.2	2414.9	2396.3
67.5°	1931.9	1956.7	1938.1	1969.0	1975.2	2000.0	2043.3	2080.5	2086.7	2099.1	2086.7
70°	1585.1	1591.3	1603.7	1628.5	1634.7	1653.2	1715.2	1746.1	1764.7	1764.7	1789.5
72.5°	1213.6	1207.4	1219.8	1244.6	1275.5	1281.7	1337.5	1380.8	1405.6	1374.6	1380.8
75°	798.8	805.0	823.5	842.1	885.4	928.8	947.4	990.7	996.9	1009.3	978.3
77.5°	476.8	489.2	507.7	544.9	582.0	619.2	662.5	693.5	705.9	693.5	656.3
80°	309.6	309.6	334.4	365.3	408.7	439.6	464.4	489.2	507.7	489.2	476.8
82.5°	192.0	192.0	222.9	260.1	291.0	309.6	346.7	377.7	396.3	383.9	365.3
85°	99.1	105.3	130.0	161.0	185.8	198.1	192.0	173.4	154.8	148.6	136.2
87.5°	31.0	31.0	37.2	37.2	31.0	31.0	37.2	31.0	37.2	37.2	37.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)