

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: P533450

Luminaire Tested: **GALN-SA8D-827-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533450
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-827-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 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: 41362 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

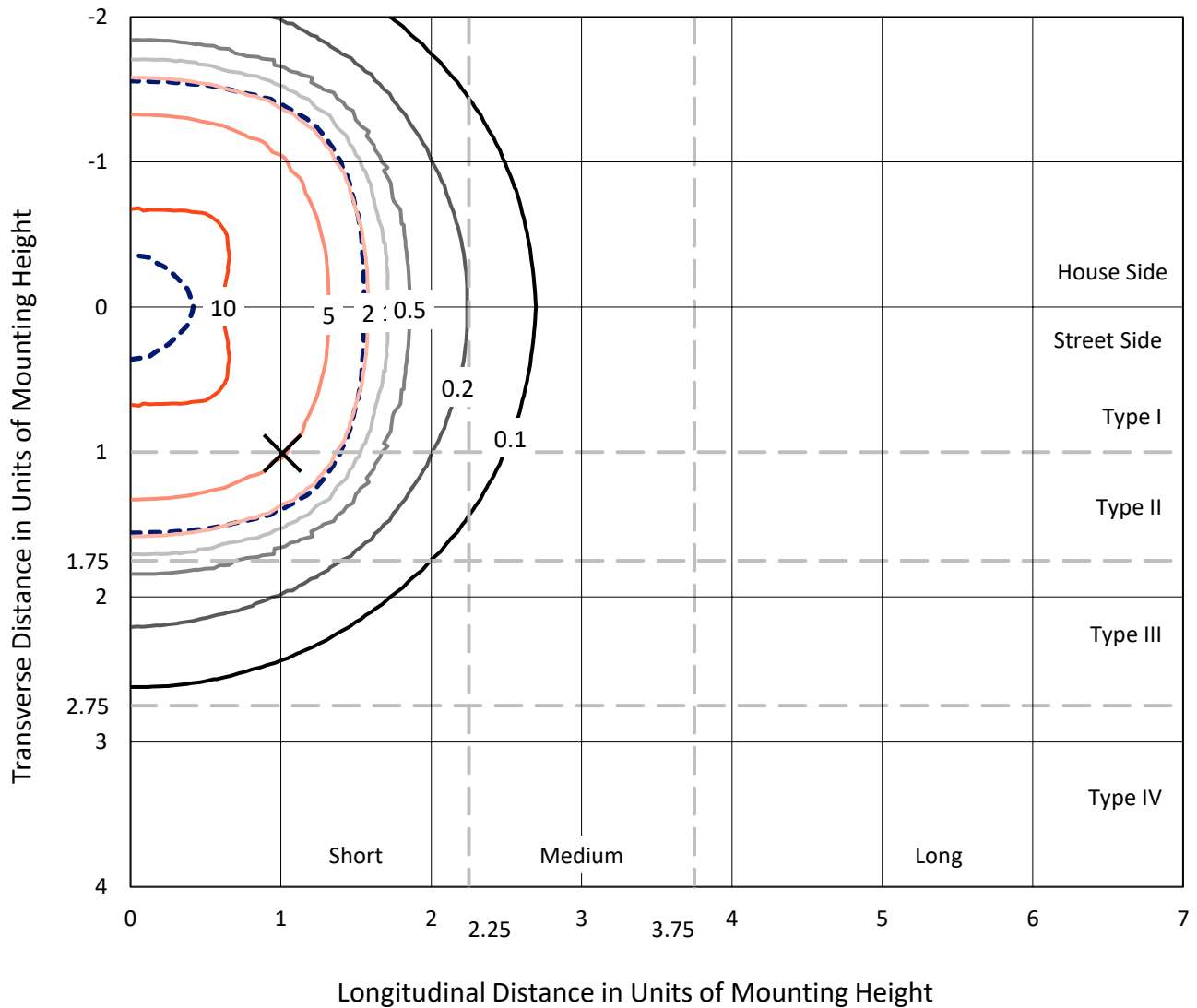
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

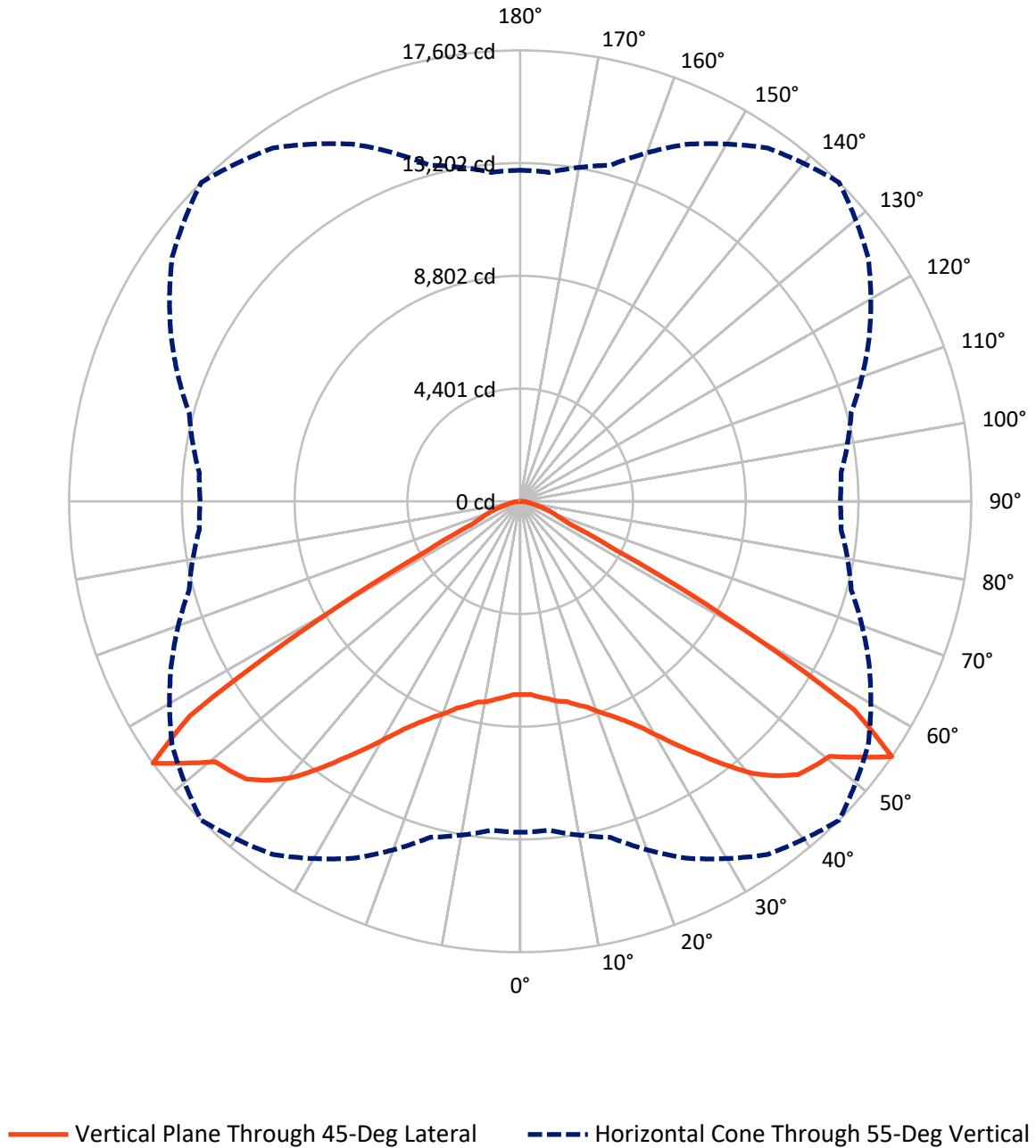
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20681.0	0.0	20681.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20681.0	0.0	20681.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	41362.0	0.0	41362.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	737.8	1.8
10°-20°	2337.6	5.7
20°-30°	4358.9	10.5
30°-40°	7298.2	17.6
40°-50°	11356.6	27.5
50°-60°	11791.8	28.5
60°-70°	2500.6	6.0
70°-80°	823.5	2.0
80°-90°	156.8	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°	41362.0	100.0
0°-180°	41362.0	100.0

Coefficient of Utilization

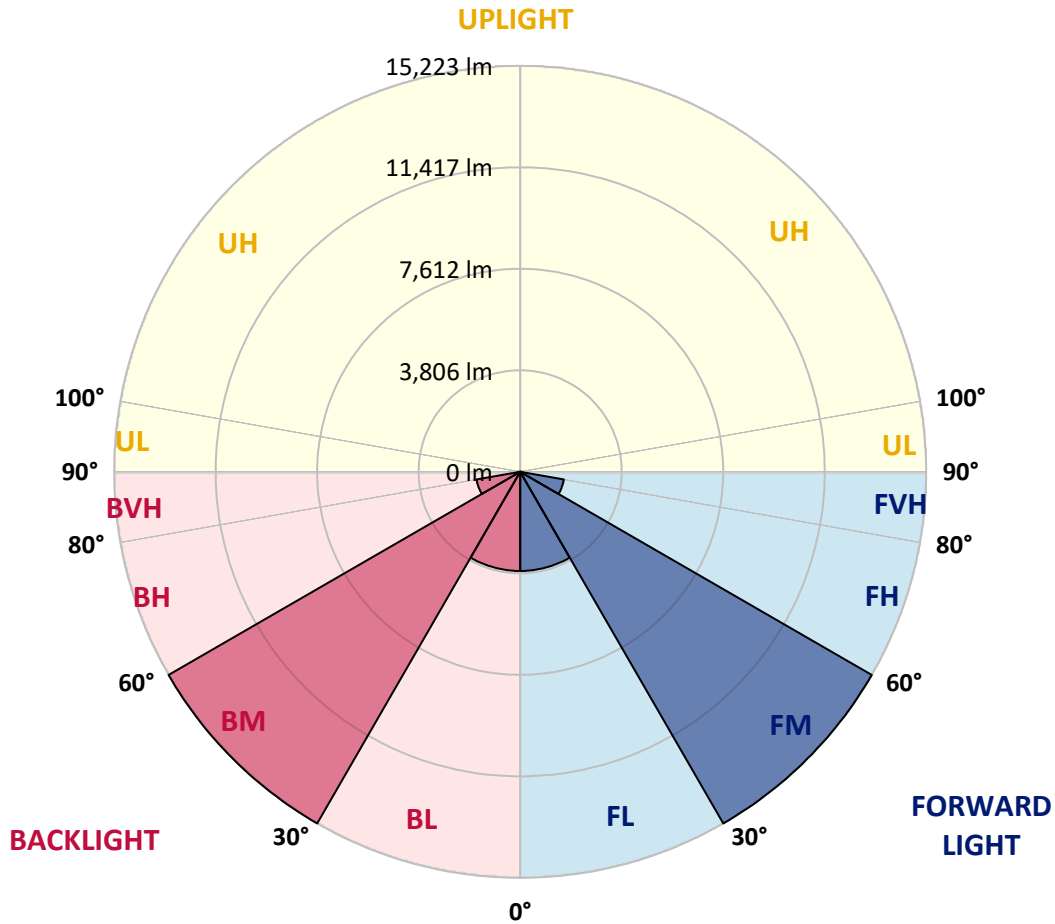


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3717.2	9.0			
FM (30°-60°)	15223.3	36.8			
FH (60°-80°)	1662.1	4.0			G1/1800
FVH (80°-90°)	78.4	0.2			G1/100
BL (0°-30°)	3717.2	9.0	B4/5000		
BM (30°-60°)	15223.3	36.8	B5		
BH (60°-80°)	1662.1	4.0	B3/2500		G1/1800
BVH (80°-90°)	78.4	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-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7552.1	7552.1	7552.1	7552.1	7552.1	7552.1	7552.1	7552.1	7552.1	7552.1	7552.1
2.5°	7642.0	7607.1	7547.1	7592.1	7627.1	7552.1	7582.1	7597.1	7587.1	7547.1	7562.1
5°	7752.0	7732.0	7682.0	7717.0	7672.0	7672.0	7642.0	7602.1	7662.0	7652.0	7677.0
7.5°	7752.0	7727.0	7827.0	7762.0	7782.0	7782.0	7732.0	7692.0	7722.0	7677.0	7652.0
10°	7906.9	7941.9	7897.0	7911.9	7901.9	7936.9	7862.0	7837.0	7812.0	7797.0	7767.0
12.5°	8091.9	8066.9	8081.9	8071.9	8106.9	8016.9	7971.9	7916.9	7961.9	7897.0	7941.9
15°	8241.8	8226.8	8241.8	8281.8	8246.8	8241.8	8161.8	8106.9	8036.9	8051.9	7981.9
17.5°	8446.7	8431.7	8436.7	8471.7	8466.7	8441.7	8381.8	8276.8	8251.8	8211.8	8166.8
20°	8751.6	8726.6	8716.6	8731.6	8756.6	8776.6	8656.7	8616.7	8531.7	8466.7	8391.8
22.5°	9011.5	9001.5	9041.5	8976.5	9031.5	9091.5	8976.5	8956.5	8746.6	8711.6	8631.7
25°	9371.4	9356.4	9331.4	9426.4	9491.3	9486.3	9376.4	9266.4	9106.5	9066.5	9066.5
27.5°	9751.2	9666.3	9796.2	9821.2	9936.2	9971.2	9876.2	9716.2	9566.3	9481.3	9501.3
30°	10226.1	10146.1	10176.1	10356.0	10505.9	10635.9	10396.0	10161.1	9951.2	9801.2	9776.2
32.5°	10700.9	10620.9	10710.9	10885.8	11185.7	11380.6	11145.7	10735.9	10490.9	10271.0	10316.0
35°	11085.7	11145.7	11290.6	11555.5	11865.4	12180.3	11805.4	11490.6	11140.7	10895.8	10930.8
37.5°	11705.5	11890.4	12005.4	12310.2	12750.1	13075.0	12685.1	12275.3	11900.4	11580.5	11470.6
40°	12515.2	12640.1	12770.1	13129.9	13649.7	13974.6	13604.7	13070.0	12700.1	12370.2	12355.2
42.5°	13404.8	13524.8	13659.7	14099.6	14409.4	14654.3	14314.5	14029.6	13619.7	13359.8	13344.8
45°	14439.4	14354.5	14504.4	14794.3	15054.2	15214.1	14994.2	14854.3	14559.4	14319.5	14294.5
47.5°	15129.2	15054.2	15324.1	15584.0	15624.0	15449.0	15494.0	15624.0	15314.1	14919.2	15044.2
50°	15529.0	15529.0	15708.9	15948.8	15873.9	15649.0	16003.8	16013.8	15703.9	15354.1	15354.1
52.5°	14834.3	14989.2	15499.0	16283.7	16533.6	16598.6	16518.6	16178.8	15369.1	14654.3	14619.4
55°	12925.0	12890.0	13579.8	15379.1	16833.5	17603.2	16583.6	15019.2	13374.8	12570.1	12490.2
57.5°	8406.8	8446.7	9476.3	11310.6	13934.6	15369.1	13649.7	11450.6	9476.3	8366.8	8471.7
60°	3783.5	3918.5	4543.2	5912.7	8166.8	9336.4	8186.8	6212.6	4768.2	4138.4	4193.4
62.5°	2174.2	2199.2	2224.1	2639.0	3478.7	4113.4	3613.6	2788.9	2459.1	2349.1	2349.1
65°	1834.3	1819.3	1824.3	1859.3	1949.2	2079.2	2024.2	1949.2	1959.2	1949.2	1934.3
67.5°	1559.4	1579.4	1564.4	1589.4	1594.4	1614.4	1649.4	1679.4	1684.3	1694.3	1684.3
70°	1279.5	1284.5	1294.5	1314.5	1319.5	1334.5	1384.5	1409.5	1424.5	1424.5	1444.4
72.5°	979.6	974.6	984.6	1004.6	1029.6	1034.6	1079.6	1114.6	1134.6	1109.6	1114.6
75°	644.8	649.7	664.7	679.7	714.7	749.7	764.7	799.7	804.7	814.7	789.7
77.5°	384.9	394.8	409.8	439.8	469.8	499.8	534.8	559.8	569.8	559.8	529.8
80°	249.9	249.9	269.9	294.9	329.9	354.9	374.9	394.8	409.8	394.8	384.9
82.5°	154.9	154.9	179.9	209.9	234.9	249.9	279.9	304.9	319.9	309.9	294.9
85°	80.0	85.0	105.0	129.9	149.9	159.9	154.9	139.9	125.0	120.0	110.0
87.5°	25.0	25.0	30.0	30.0	25.0	25.0	30.0	25.0	30.0	30.0	30.0
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)