

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: P530642

Luminaire Tested: **GALN-SA5D-827-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530642
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-SA5D-827-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 25651 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

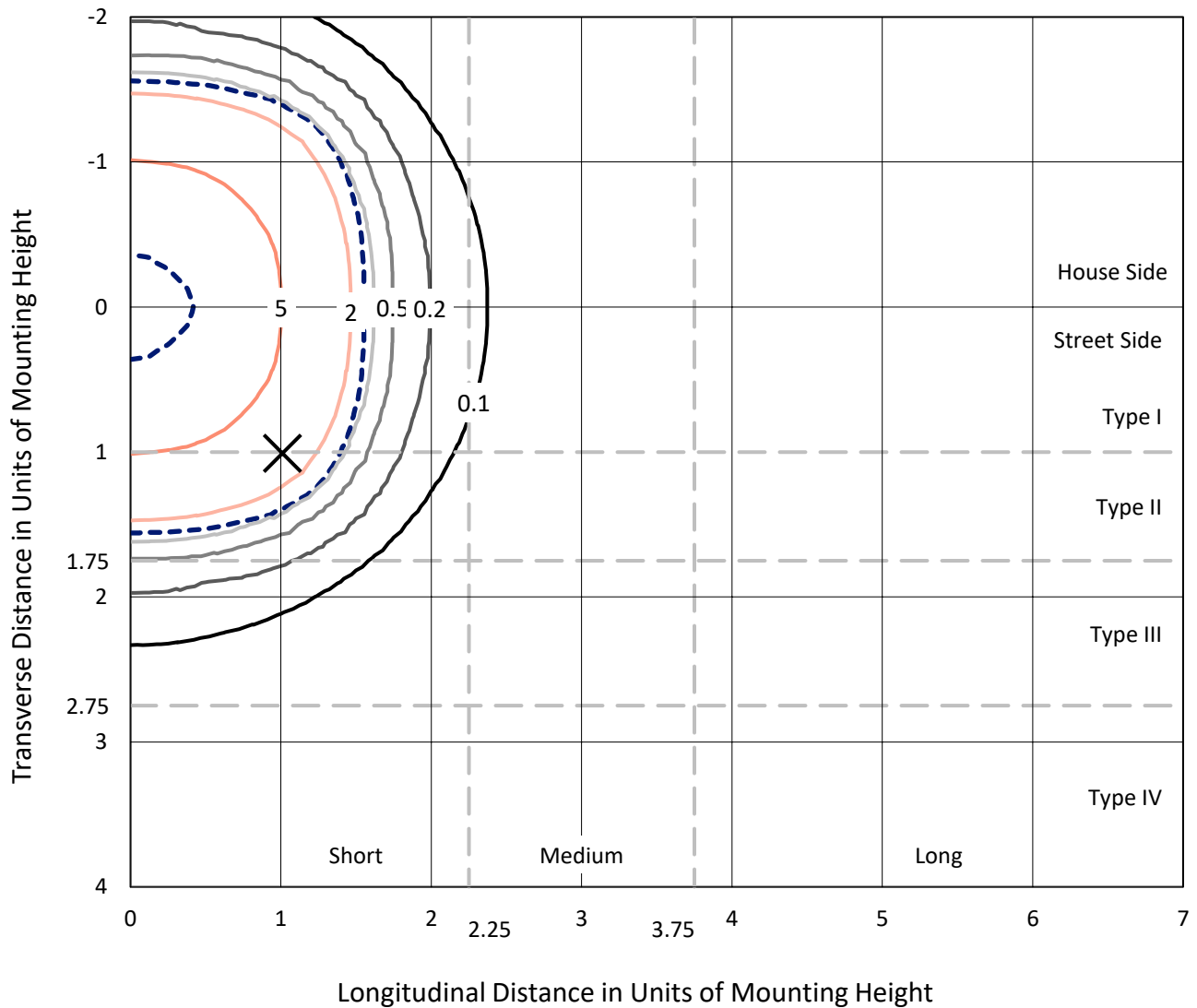
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

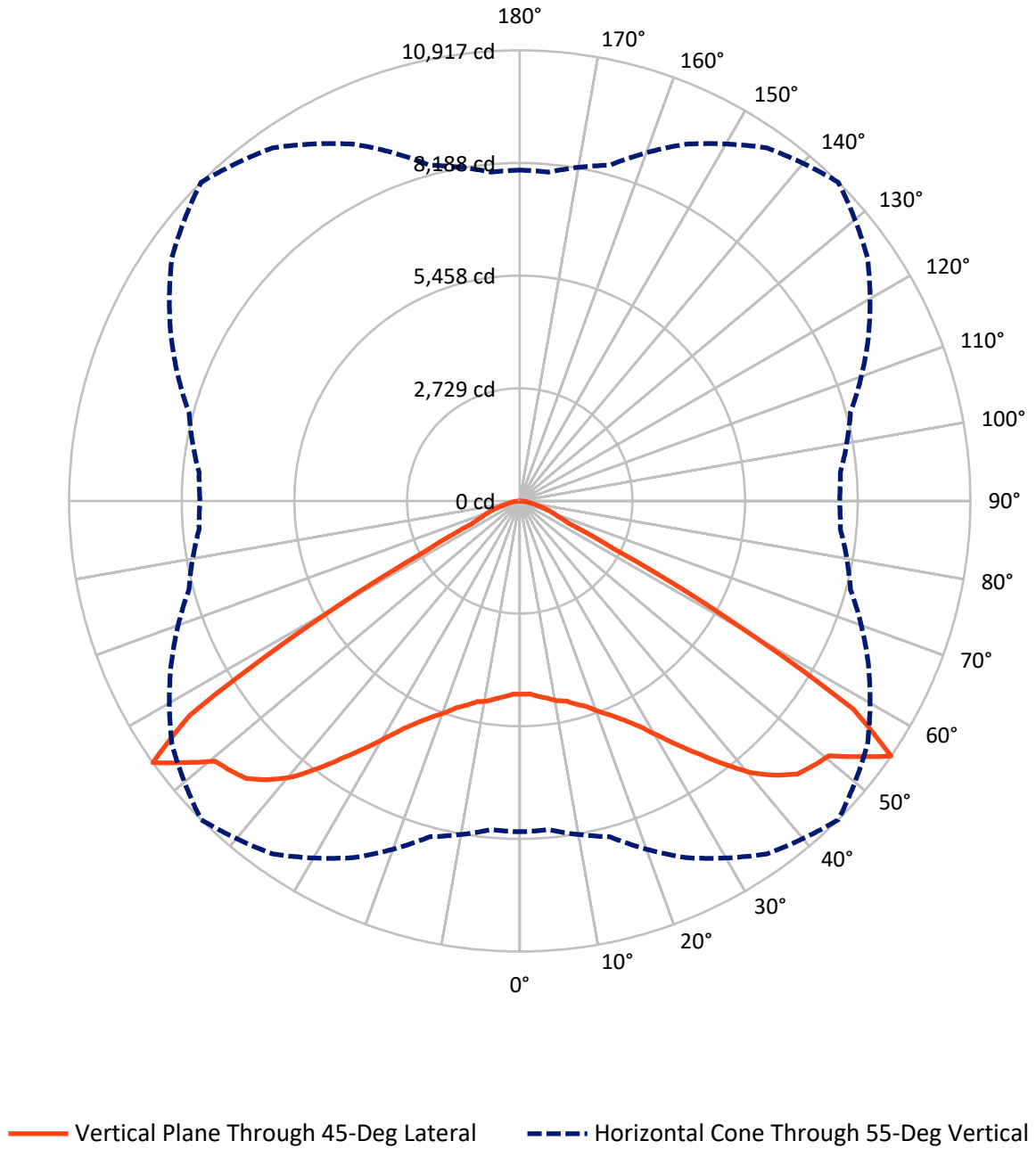
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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	12825.5	0.0	12825.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12825.5	0.0	12825.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	25651.0	0.0	25651.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	457.5	1.8
10°-20°	1449.7	5.7
20°-30°	2703.2	10.5
30°-40°	4526.1	17.6
40°-50°	7042.9	27.5
50°-60°	7312.8	28.5
60°-70°	1550.8	6.0
70°-80°	510.7	2.0
80°-90°	97.3	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°	25651.0	100.0
0°-180°	25651.0	100.0

Coefficient of Utilization



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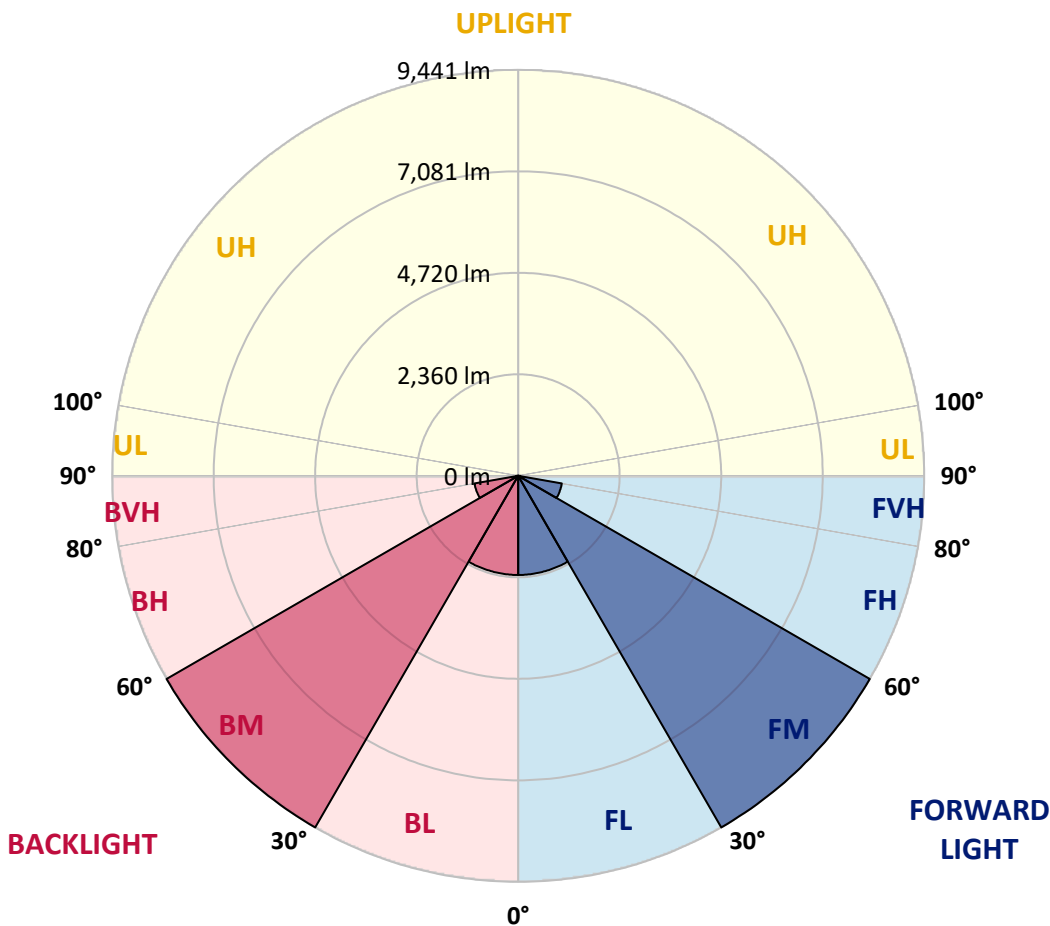
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2305.2	9.0			
FM (30°-60°)	9440.9	36.8			
FH (60°-80°)	1030.8	4.0			G1/1800
FVH (80°-90°)	48.6	0.2			G1/100
BL (0°-30°)	2305.2	9.0	B3/2500		
BM (30°-60°)	9440.9	36.8	B5		
BH (60°-80°)	1030.8	4.0	B3/2500		G1/1800
BVH (80°-90°)	48.6	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°	4683.5	4683.5	4683.5	4683.5	4683.5	4683.5	4683.5	4683.5	4683.5	4683.5	4683.5
2.5°	4739.3	4717.6	4680.4	4708.3	4730.0	4683.5	4702.1	4711.4	4705.2	4680.4	4689.7
5°	4807.5	4795.1	4764.1	4785.8	4757.9	4757.9	4739.3	4714.5	4751.7	4745.5	4761.0
7.5°	4807.5	4792.0	4854.0	4813.7	4826.1	4826.1	4795.1	4770.3	4788.9	4761.0	4745.5
10°	4903.6	4925.3	4897.4	4906.7	4900.5	4922.2	4875.7	4860.2	4844.7	4835.4	4816.8
12.5°	5018.2	5002.7	5012.0	5005.8	5027.5	4971.8	4943.9	4909.8	4937.7	4897.4	4925.3
15°	5111.2	5101.9	5111.2	5136.0	5114.3	5111.2	5061.6	5027.5	4984.2	4993.4	4950.1
17.5°	5238.3	5229.0	5232.1	5253.8	5250.7	5235.2	5198.0	5132.9	5117.4	5092.6	5064.7
20°	5427.4	5411.9	5405.7	5415.0	5430.5	5442.9	5368.5	5343.7	5291.0	5250.7	5204.2
22.5°	5588.6	5582.4	5607.2	5566.9	5601.0	5638.2	5566.9	5554.5	5424.3	5402.6	5353.0
25°	5811.7	5802.4	5786.9	5845.8	5886.1	5883.0	5814.8	5746.7	5647.5	5622.7	5622.7
27.5°	6047.3	5994.6	6075.2	6090.7	6162.0	6183.7	6124.8	6025.6	5932.6	5879.9	5892.3
30°	6341.8	6292.2	6310.8	6422.4	6515.4	6595.9	6447.2	6301.5	6171.3	6078.3	6062.8
32.5°	6636.2	6586.6	6642.4	6750.9	6936.9	7057.8	6912.1	6657.9	6506.1	6369.7	6397.6
35°	6874.9	6912.1	7002.0	7166.3	7358.4	7553.7	7321.2	7126.0	6909.0	6757.1	6778.8
37.5°	7259.3	7373.9	7445.2	7634.3	7907.1	8108.5	7866.8	7612.6	7380.1	7181.8	7113.6
40°	7761.4	7838.9	7919.5	8142.6	8465.0	8666.5	8437.1	8105.4	7876.1	7671.5	7662.2
42.5°	8313.1	8387.5	8471.2	8744.0	8936.1	9088.0	8877.2	8700.6	8446.4	8285.2	8275.9
45°	8954.7	8902.0	8995.0	9174.8	9336.0	9435.2	9298.8	9212.0	9029.1	8880.3	8864.8
47.5°	9382.5	9336.0	9503.4	9664.5	9689.3	9580.9	9608.7	9689.3	9497.2	9252.3	9329.8
50°	9630.4	9630.4	9742.0	9890.8	9844.3	9704.8	9924.9	9931.1	9738.9	9522.0	9522.0
52.5°	9199.6	9295.7	9611.8	10098.5	10253.5	10293.8	10244.2	10033.4	9531.3	9088.0	9066.3
55°	8015.6	7993.9	8421.6	9537.5	10439.4	10916.8	10284.5	9314.3	8294.5	7795.5	7745.9
57.5°	5213.5	5238.3	5876.8	7014.4	8641.7	9531.3	8465.0	7101.2	5876.8	5188.7	5253.8
60°	2346.4	2430.1	2817.5	3666.8	5064.7	5790.0	5077.1	3852.8	2957.0	2566.5	2600.6
62.5°	1348.3	1363.8	1379.3	1636.6	2157.3	2551.0	2241.0	1729.6	1525.0	1456.8	1456.8
65°	1137.6	1128.3	1131.4	1153.0	1208.8	1289.4	1255.3	1208.8	1215.0	1208.8	1199.5
67.5°	967.1	979.5	970.2	985.7	988.8	1001.2	1022.9	1041.5	1044.6	1050.8	1044.6
70°	793.5	796.6	802.8	815.2	818.3	827.6	858.6	874.1	883.4	883.4	895.8
72.5°	607.5	604.4	610.6	623.0	638.5	641.6	669.5	691.2	703.6	688.1	691.2
75°	399.8	402.9	412.2	421.5	443.2	464.9	474.2	495.9	499.0	505.2	489.7
77.5°	238.7	244.9	254.2	272.8	291.4	310.0	331.7	347.2	353.4	347.2	328.6
80°	155.0	155.0	167.4	182.9	204.6	220.1	232.5	244.9	254.2	244.9	238.7
82.5°	96.1	96.1	111.6	130.2	145.7	155.0	173.6	189.1	198.4	192.2	182.9
85°	49.6	52.7	65.1	80.6	93.0	99.2	96.1	86.8	77.5	74.4	68.2
87.5°	15.5	15.5	18.6	18.6	15.5	15.5	18.6	15.5	18.6	18.6	18.6
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)