

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: P534151

Luminaire Tested: **GALN-SA9C-827-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534151
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-827-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32186 lumens
Efficiency: N/A
Efficacy: 66.9 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

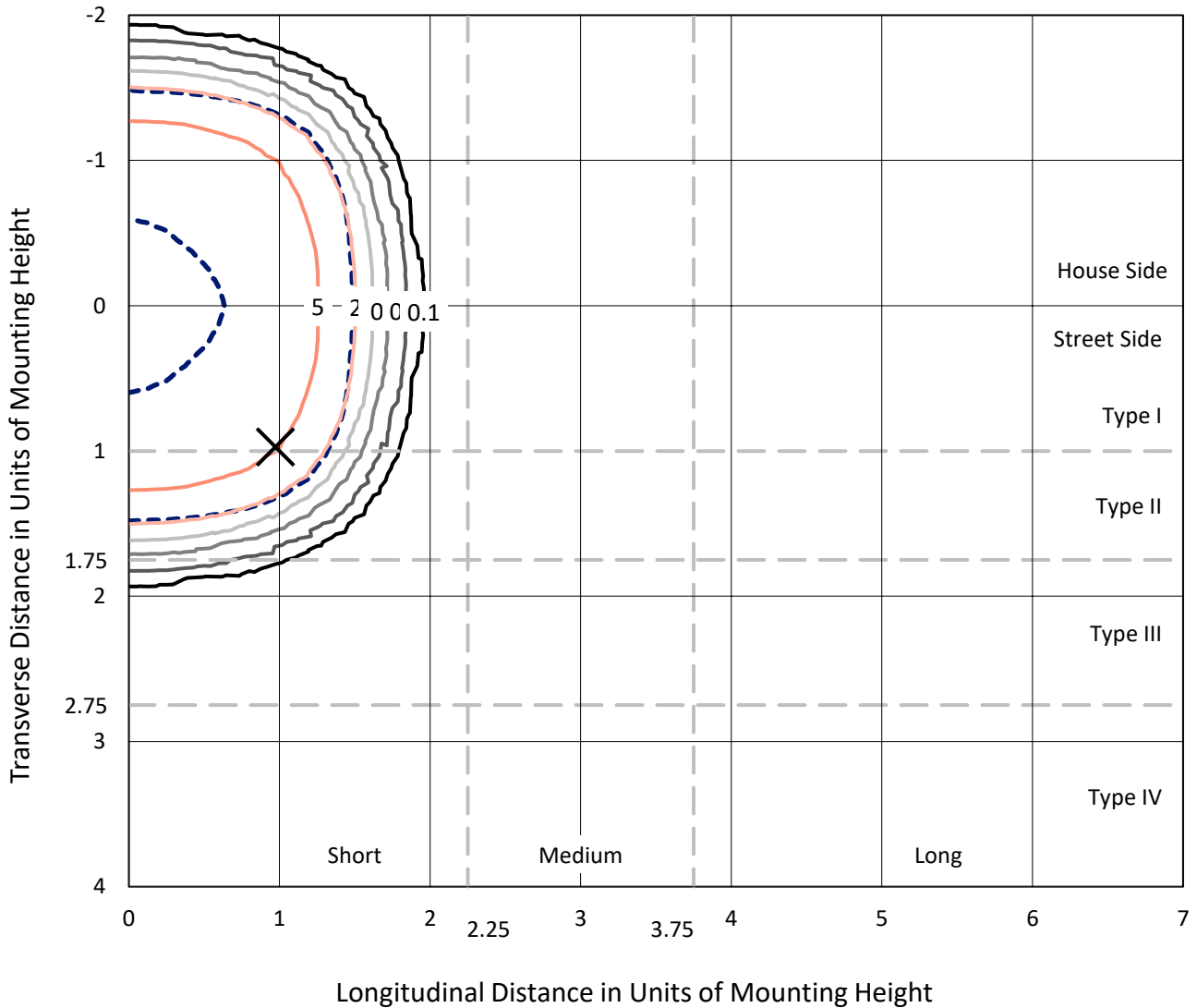
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

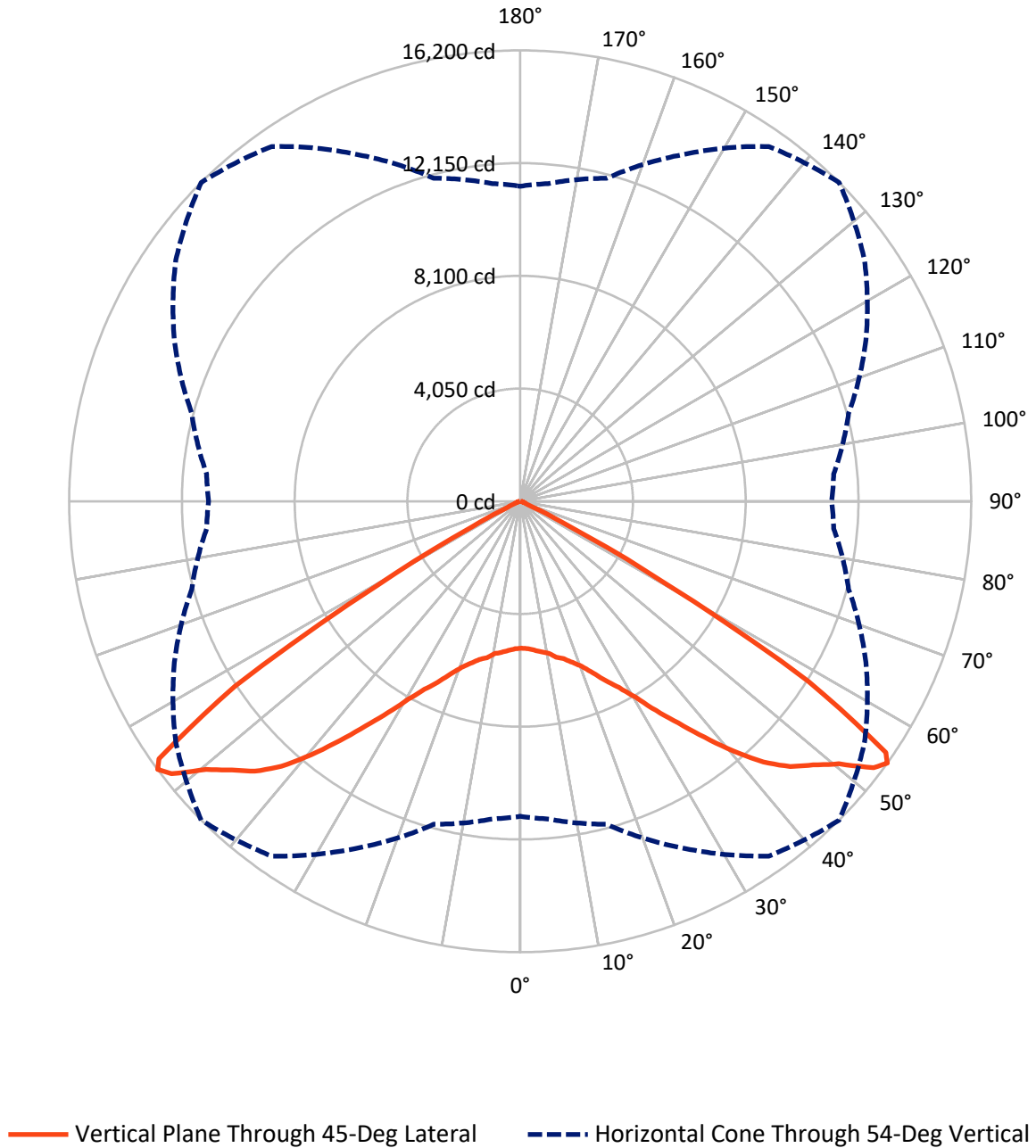
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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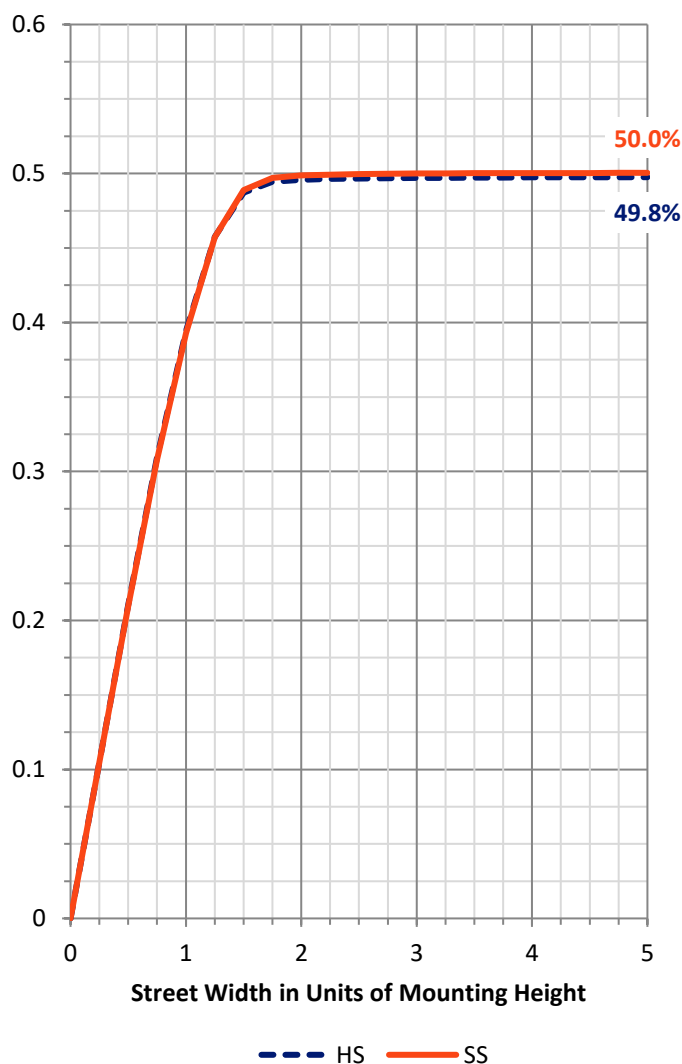
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16093.0	0.0	16093.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16093.0	0.0	16093.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	32186.0	0.0	32186.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	516.5	1.6
10°-20°	1672.8	5.2
20°-30°	3278.5	10.2
30°-40°	5895.4	18.3
40°-50°	10091.9	31.4
50°-60°	9764.8	30.3
60°-70°	835.9	2.6
70°-80°	99.1	0.3
80°-90°	31.1	0.1
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°	32186.0	100.0
0°-180°	32186.0	100.0

Coefficient of Utilization



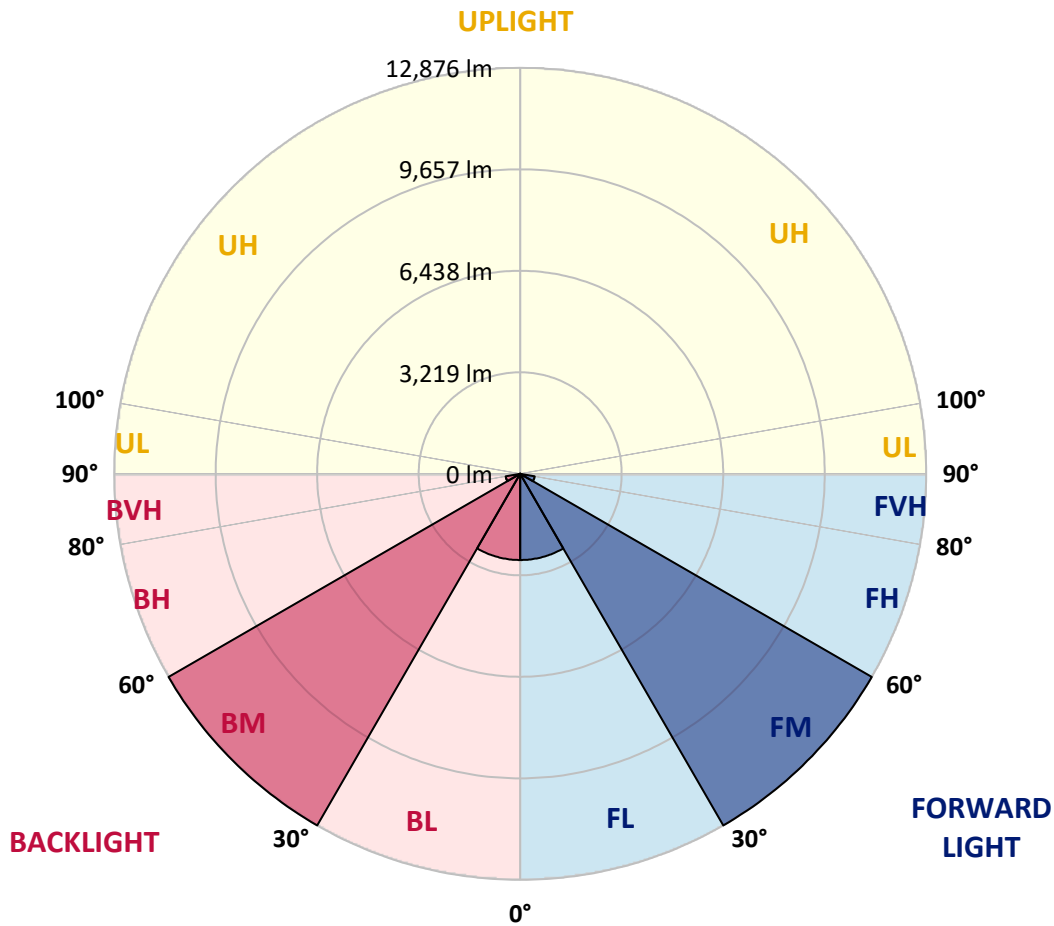
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2733.9	8.5			
FM (30°-60°)	12876.1	40.0			
FH (60°-80°)	467.5	1.5			G0/660
FVH (80°-90°)	15.5	0.0			G1/100
BL (0°-30°)	2733.9	8.5	B4/5000		
BM (30°-60°)	12876.1	40.0	B5		
BH (60°-80°)	467.5	1.5	B1/500		G0/660
BVH (80°-90°)	15.5	0.0			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°	5277.5	5277.5	5277.5	5277.5	5277.5	5277.5	5277.5	5277.5	5277.5	5277.5	5277.5
2.5°	5303.0	5333.6	5313.2	5328.5	5328.5	5303.0	5318.3	5257.1	5297.9	5267.3	5272.4
5°	5384.6	5379.5	5379.5	5384.6	5364.2	5374.4	5354.0	5333.6	5318.3	5297.9	5359.1
7.5°	5486.6	5486.6	5450.9	5461.1	5450.9	5466.2	5425.4	5384.6	5369.3	5354.0	5343.8
10°	5583.4	5573.2	5557.9	5603.8	5568.1	5547.8	5527.4	5501.9	5445.8	5425.4	5405.0
12.5°	5726.2	5721.1	5700.7	5746.6	5726.2	5746.6	5670.1	5603.8	5593.6	5527.4	5563.0
15°	5894.5	5940.4	5904.7	5904.7	5894.5	5869.0	5838.4	5807.8	5716.0	5690.5	5695.6
17.5°	6113.7	6098.4	6103.5	6103.5	6154.5	6088.2	6027.1	5950.6	5904.7	5889.4	5838.4
20°	6322.8	6343.2	6338.1	6373.8	6404.4	6333.0	6266.7	6256.5	6129.0	6149.4	6078.0
22.5°	6689.9	6674.6	6700.1	6725.6	6705.2	6695.0	6633.8	6557.4	6445.2	6394.2	6384.0
25°	7077.5	7052.0	7006.1	7067.3	7097.9	7143.7	7026.5	6985.7	6812.3	6735.8	6740.9
27.5°	7408.9	7444.6	7495.6	7521.1	7597.6	7582.3	7500.7	7368.1	7235.5	7148.8	7092.8
30°	7862.7	7883.1	7969.8	8005.5	8138.1	8173.8	8046.3	7893.3	7658.8	7546.6	7480.3
32.5°	8280.8	8423.6	8418.5	8597.0	8811.1	8959.0	8729.5	8495.0	8260.4	8127.9	8010.6
35°	8959.0	8933.5	9081.4	9270.0	9616.8	9785.0	9535.2	9264.9	8908.0	8693.9	8602.1
37.5°	9591.3	9601.5	9800.3	10101.2	10498.9	10759.0	10539.7	10096.1	9729.0	9453.6	9326.1
40°	10509.1	10529.5	10733.5	11075.1	11523.8	11804.3	11549.3	11100.6	10611.1	10396.9	10396.9
42.5°	11585.0	11671.7	11804.3	12100.0	12502.8	12813.9	12584.4	12232.6	11738.0	11462.6	11503.4
45°	12691.5	12732.3	12819.0	13257.5	13446.2	13599.1	13385.0	13221.8	12890.4	12553.8	12497.7
47.5°	13726.6	13741.9	13996.9	14134.5	14282.4	14154.9	14292.6	14078.4	13706.2	13379.9	13313.6
50°	14185.5	14160.0	14522.1	14940.2	15052.4	14828.0	14710.7	14567.9	14002.0	13609.3	13436.0
52.5°	12849.6	12997.4	13670.5	14833.1	15710.1	15898.8	15215.5	14557.7	13502.2	12737.4	12620.1
54°	11319.9	11457.5	12013.3	13736.8	15562.3	16199.6	15098.2	13701.1	12212.2	11304.6	11187.3
55°	9805.4	9652.5	10662.1	12421.2	14868.8	15934.5	14634.2	12594.6	10891.5	10060.4	9897.2
57.5°	5308.1	5333.6	6185.1	7847.4	10447.9	12217.3	10789.6	8520.5	6435.0	5501.9	5420.3
60°	1682.7	1723.5	2095.7	3171.6	4992.0	5960.8	5109.2	3421.5	2366.0	1896.8	1820.4
62.5°	525.2	545.6	596.6	887.2	1366.5	1952.9	1529.7	917.8	683.3	627.2	637.4
65°	321.2	321.2	326.3	346.7	407.9	474.2	458.9	402.8	387.5	377.3	372.2
67.5°	209.1	204.0	214.2	229.5	239.7	244.8	260.1	275.3	270.2	260.1	260.1
70°	127.5	122.4	132.6	153.0	158.1	168.3	183.6	204.0	198.9	188.7	193.8
72.5°	71.4	71.4	76.5	91.8	107.1	117.3	132.6	147.9	153.0	147.9	147.9
75°	25.5	30.6	40.8	56.1	66.3	81.6	96.9	112.2	127.5	117.3	112.2
77.5°	10.2	10.2	20.4	35.7	51.0	66.3	91.8	107.1	117.3	107.1	96.9
80°	5.1	5.1	15.3	30.6	45.9	61.2	76.5	91.8	96.9	86.7	76.5
82.5°	5.1	5.1	15.3	30.6	45.9	56.1	81.6	91.8	102.0	91.8	76.5
85°	0.0	5.1	15.3	30.6	40.8	45.9	45.9	30.6	25.5	15.3	15.3
87.5°	0.0	0.0	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)