

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: P534385

Luminaire Tested: **GALN-SA9D-827-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534385
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-SA9D-827-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1200mA 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: 35416 lumens
Efficiency: N/A
Efficacy: 64.2 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

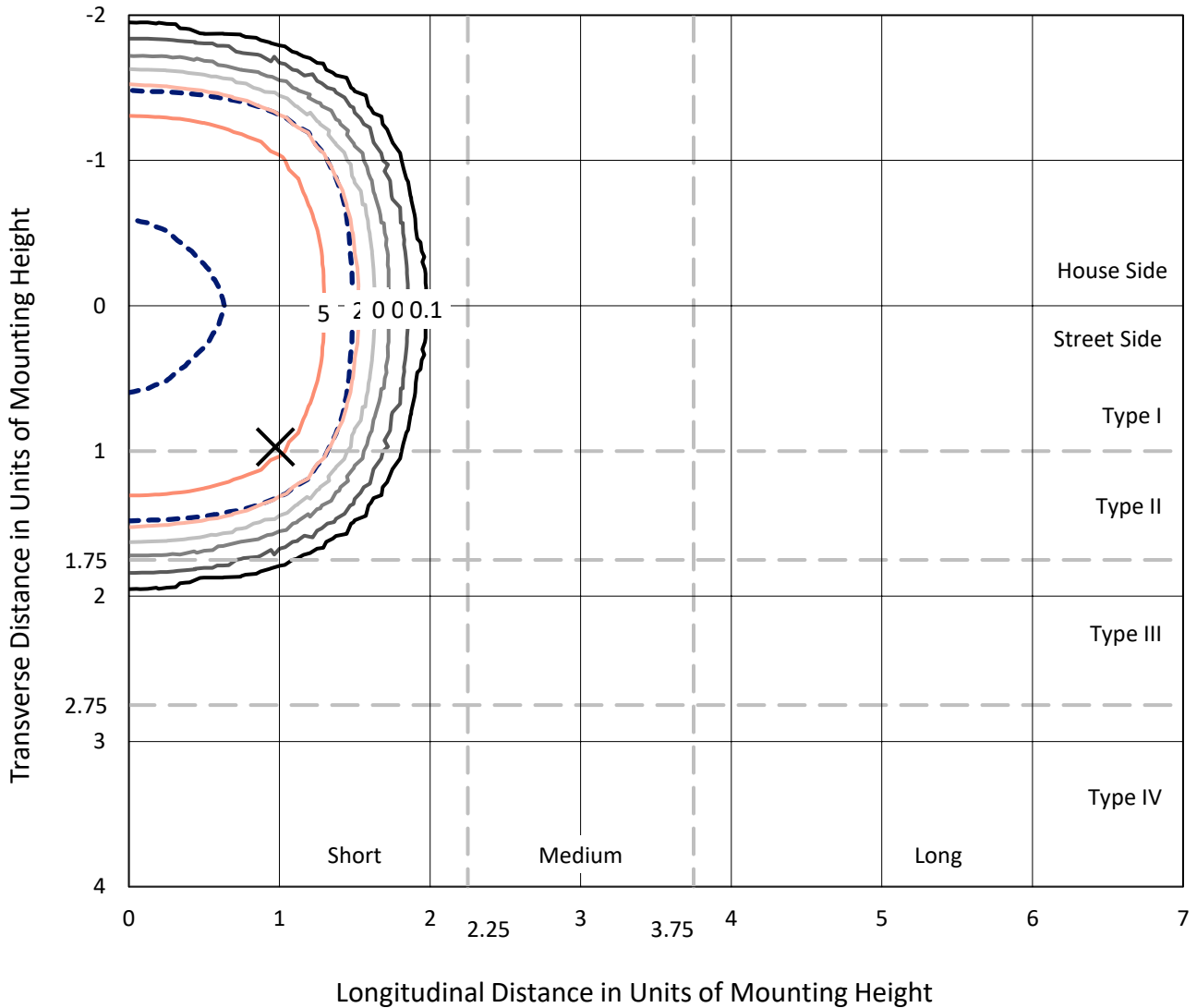
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

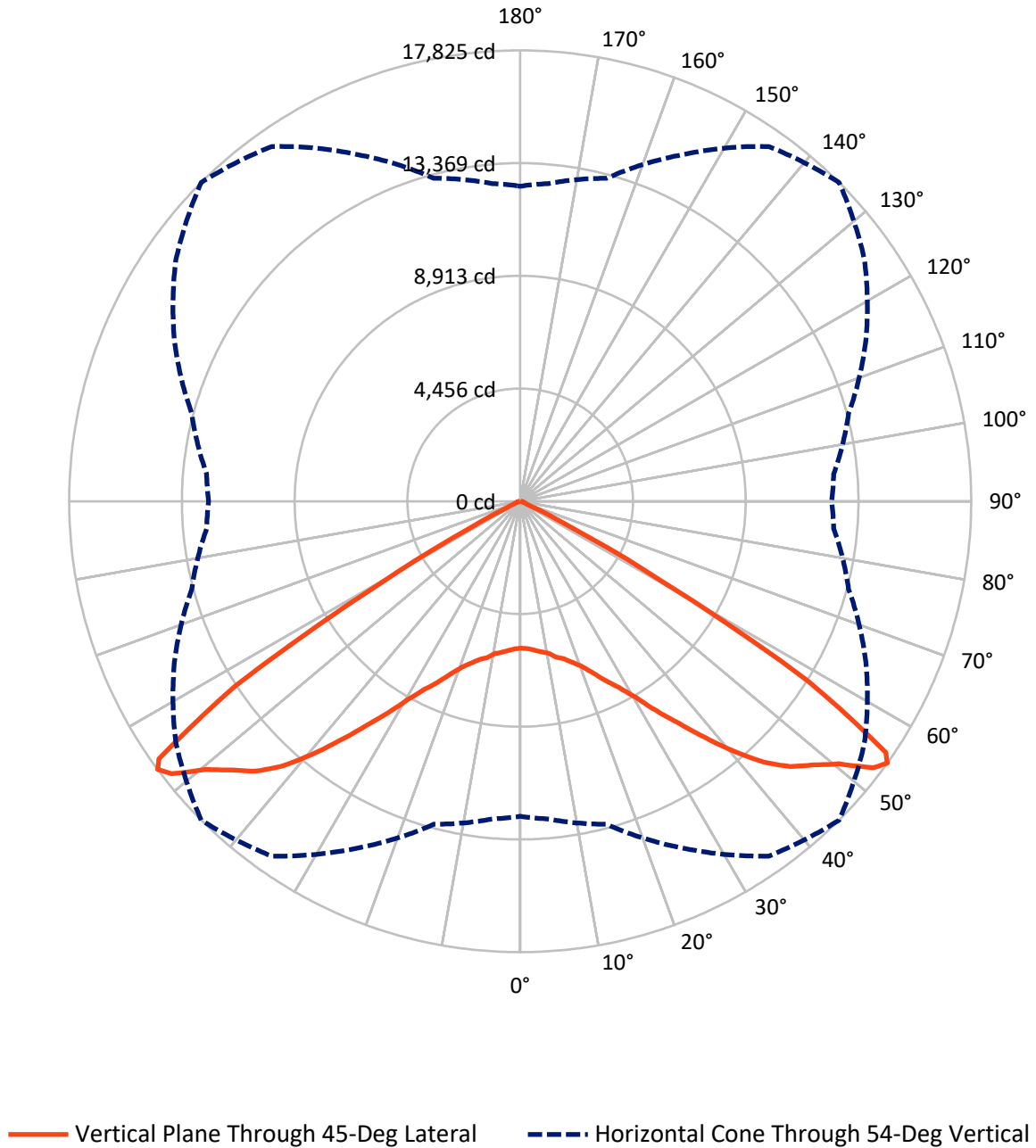
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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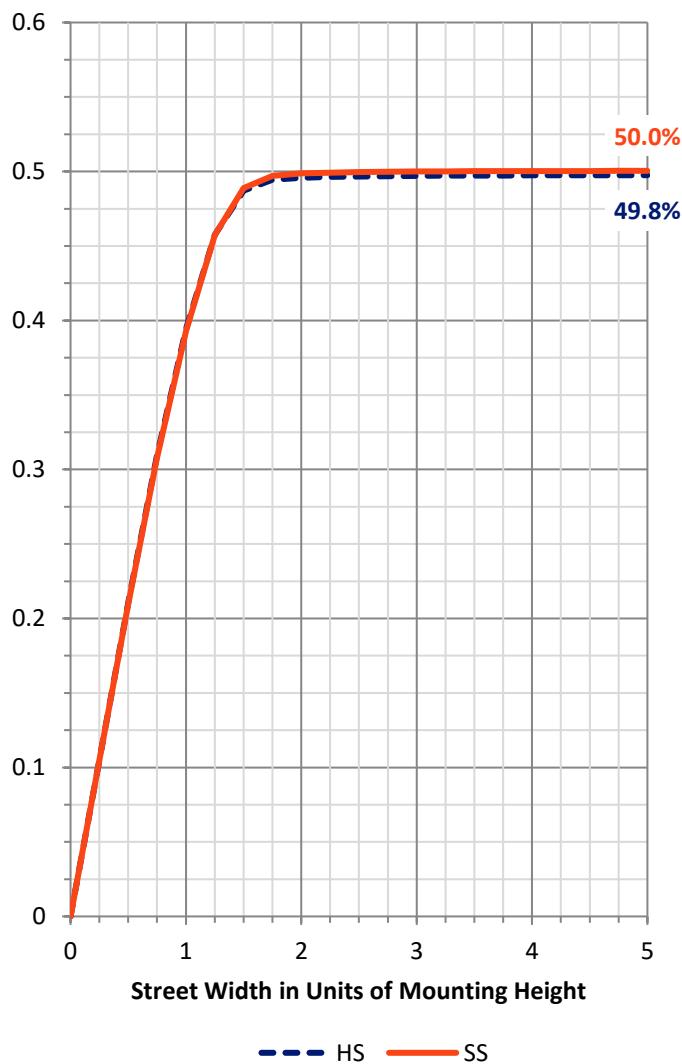
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17708.0	0.0	17708.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17708.0	0.0	17708.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	35416.0	0.0	35416.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	568.4	1.6
10°-20°	1840.6	5.2
20°-30°	3607.5	10.2
30°-40°	6487.1	18.3
40°-50°	11104.6	31.4
50°-60°	10744.8	30.3
60°-70°	919.8	2.6
70°-80°	109.0	0.3
80°-90°	34.2	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°	35416.0	100.0
0°-180°	35416.0	100.0

Coefficient of Utilization



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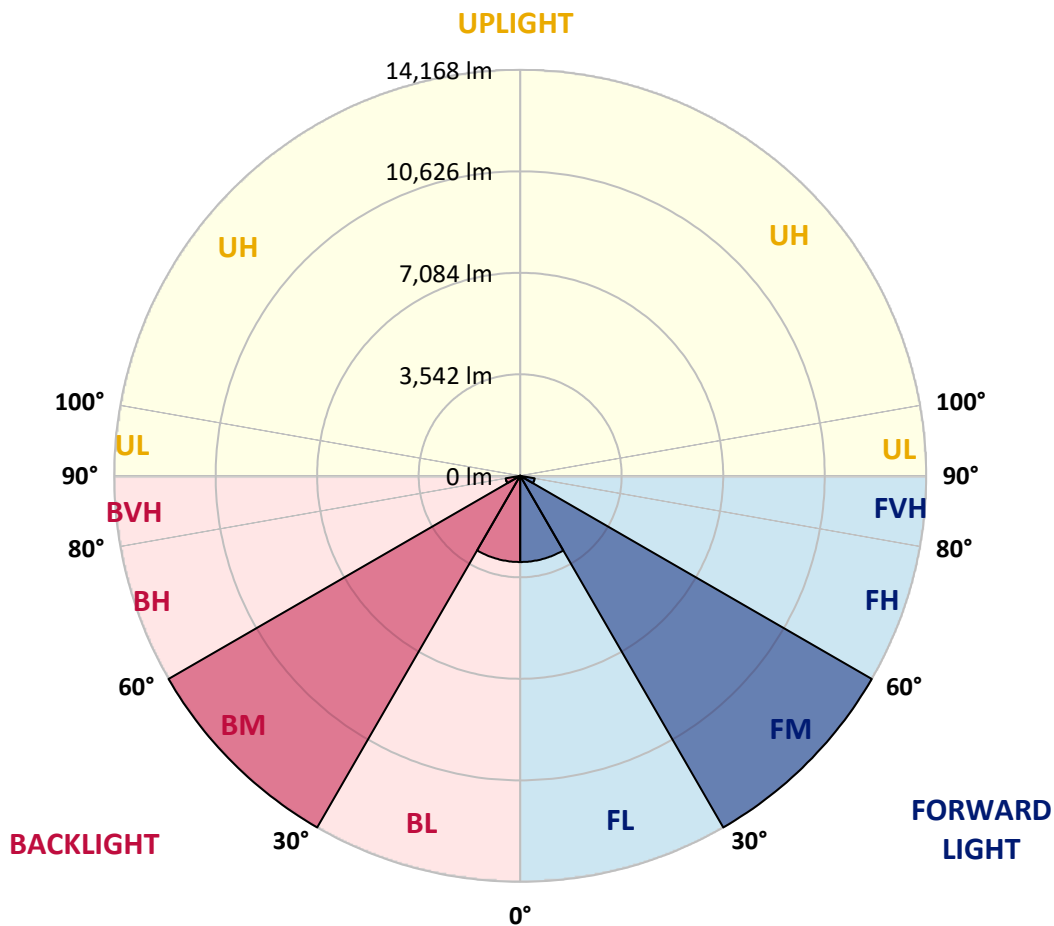
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3008.3	8.5			
FM (30°-60°)	14168.2	40.0			
FH (60°-80°)	514.4	1.5			G0/660
FVH (80°-90°)	17.1	0.0			G1/100
BL (0°-30°)	3008.3	8.5	B4/5000		
BM (30°-60°)	14168.2	40.0	B5		
BH (60°-80°)	514.4	1.5	B2/1000		G0/660
BVH (80°-90°)	17.1	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°	5807.1	5807.1	5807.1	5807.1	5807.1	5807.1	5807.1	5807.1	5807.1	5807.1	5807.1
2.5°	5835.2	5868.8	5846.4	5863.2	5863.2	5835.2	5852.0	5784.7	5829.6	5795.9	5801.5
5°	5924.9	5919.3	5919.3	5924.9	5902.5	5913.7	5891.3	5868.8	5852.0	5829.6	5896.9
7.5°	6037.2	6037.2	5997.9	6009.1	5997.9	6014.7	5969.8	5924.9	5908.1	5891.3	5880.1
10°	6143.8	6132.5	6115.7	6166.2	6126.9	6104.5	6082.0	6054.0	5992.3	5969.8	5947.4
12.5°	6300.9	6295.3	6272.8	6323.3	6300.9	6323.3	6239.1	6166.2	6155.0	6082.0	6121.3
15°	6486.0	6536.5	6497.2	6497.2	6486.0	6458.0	6424.3	6390.6	6289.6	6261.6	6267.2
17.5°	6727.3	6710.5	6716.1	6716.1	6772.2	6699.2	6631.9	6547.7	6497.2	6480.4	6424.3
20°	6957.3	6979.8	6974.2	7013.4	7047.1	6968.5	6895.6	6884.4	6744.1	6766.6	6688.0
22.5°	7361.3	7344.5	7372.5	7400.6	7378.1	7366.9	7299.6	7215.4	7092.0	7035.9	7024.7
25°	7787.7	7759.7	7709.2	7776.5	7810.2	7860.7	7731.6	7686.7	7496.0	7411.8	7417.4
27.5°	8152.4	8191.7	8247.8	8275.8	8360.0	8343.2	8253.4	8107.5	7961.6	7866.3	7804.5
30°	8651.8	8674.2	8769.6	8808.9	8954.7	8994.0	8853.8	8685.4	8427.3	8303.9	8231.0
32.5°	9111.8	9268.9	9263.3	9459.7	9695.4	9858.1	9605.6	9347.5	9089.4	8943.5	8814.5
35°	9858.1	9830.0	9992.7	10200.3	10581.9	10767.0	10492.1	10194.7	9802.0	9566.3	9465.3
37.5°	10553.8	10565.0	10783.9	11114.9	11552.5	11838.7	11597.4	11109.3	10705.3	10402.3	10262.1
40°	11563.7	11586.2	11810.6	12186.5	12680.3	12988.9	12708.3	12214.6	11676.0	11440.3	11440.3
42.5°	12747.6	12843.0	12988.9	13314.3	13757.5	14099.8	13847.3	13460.2	12915.9	12613.0	12657.8
45°	13965.1	14010.0	14105.4	14587.9	14795.5	14963.9	14728.2	14548.7	14184.0	13813.7	13751.9
47.5°	15104.1	15121.0	15401.5	15553.0	15715.7	15575.4	15726.9	15491.3	15081.7	14722.6	14649.7
50°	15609.1	15581.0	15979.4	16439.5	16562.9	16316.0	16187.0	16029.9	15407.1	14975.1	14784.3
52.5°	14139.1	14301.8	15042.4	16321.7	17286.7	17494.3	16742.5	16018.7	14857.3	14015.6	13886.6
54°	12455.9	12607.3	13218.9	15115.3	17124.0	17825.3	16613.4	15076.1	13437.7	12439.0	12310.0
55°	10789.5	10621.1	11732.1	13667.8	16360.9	17533.6	16102.8	13858.5	11984.6	11070.0	10890.5
57.5°	5840.8	5868.8	6805.8	8634.9	11496.4	13443.3	11872.3	9375.6	7080.8	6054.0	5964.2
60°	1851.5	1896.4	2306.0	3489.9	5492.9	6559.0	5622.0	3764.8	2603.4	2087.2	2003.0
62.5°	577.9	600.3	656.5	976.3	1503.7	2148.9	1683.2	1009.9	751.8	690.1	701.3
65°	353.5	353.5	359.1	381.5	448.9	521.8	505.0	443.2	426.4	415.2	409.6
67.5°	230.0	224.4	235.7	252.5	263.7	269.3	286.1	303.0	297.4	286.1	286.1
70°	140.3	134.7	145.9	168.3	173.9	185.2	202.0	224.4	218.8	207.6	213.2
72.5°	78.6	78.6	84.2	101.0	117.8	129.0	145.9	162.7	168.3	162.7	162.7
75°	28.1	33.7	44.9	61.7	72.9	89.8	106.6	123.4	140.3	129.0	123.4
77.5°	11.2	11.2	22.4	39.3	56.1	72.9	101.0	117.8	129.0	117.8	106.6
80°	5.6	5.6	16.8	33.7	50.5	67.3	84.2	101.0	106.6	95.4	84.2
82.5°	5.6	5.6	16.8	33.7	50.5	61.7	89.8	101.0	112.2	101.0	84.2
85°	0.0	5.6	16.8	33.7	44.9	50.5	50.5	33.7	28.1	16.8	16.8
87.5°	0.0	0.0	5.6	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)