

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: P532980

Luminaire Tested: **GALN-SA8B-827-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532980
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-827-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29814 lumens
Efficiency: N/A
Efficacy: 91.7 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

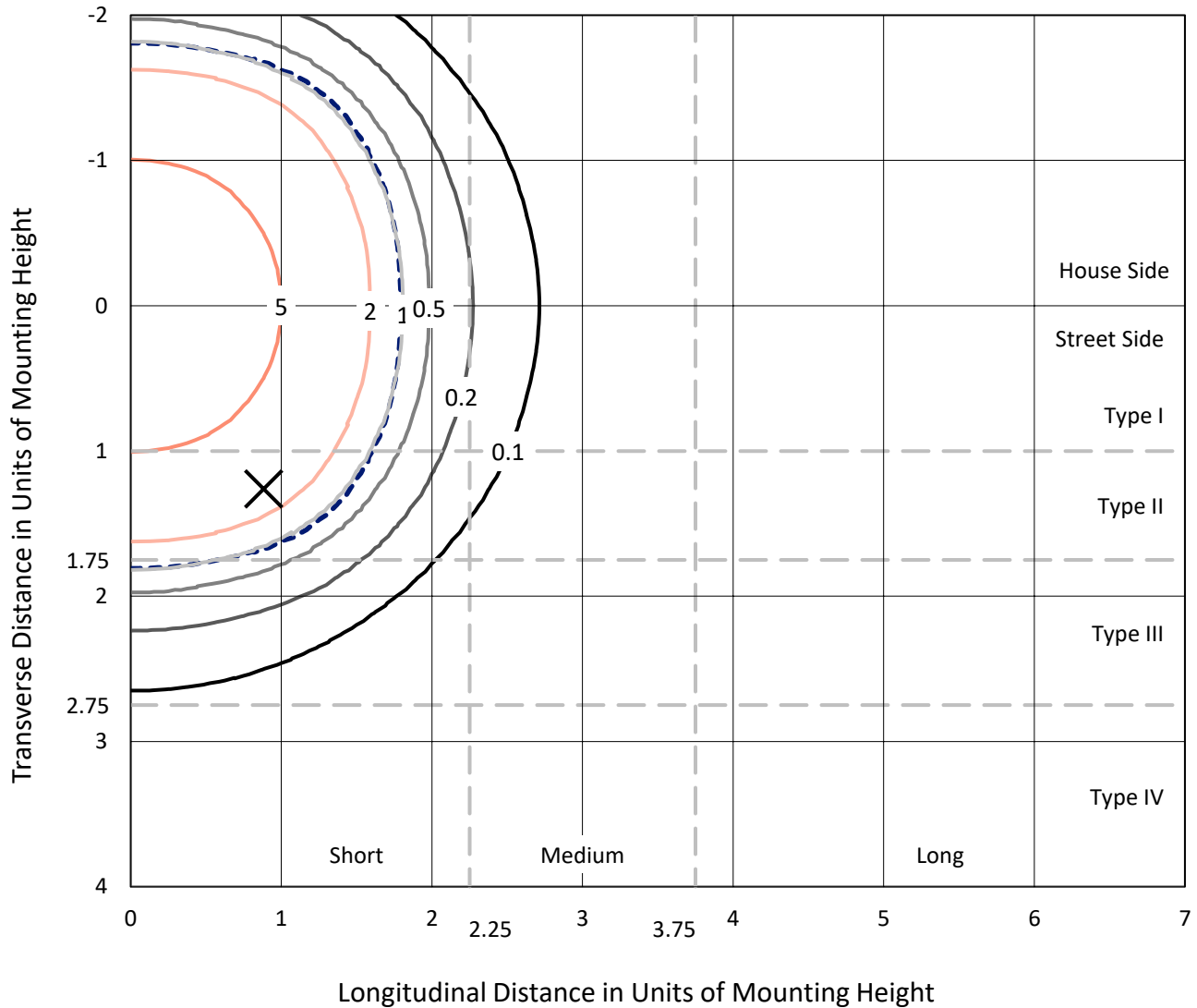
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

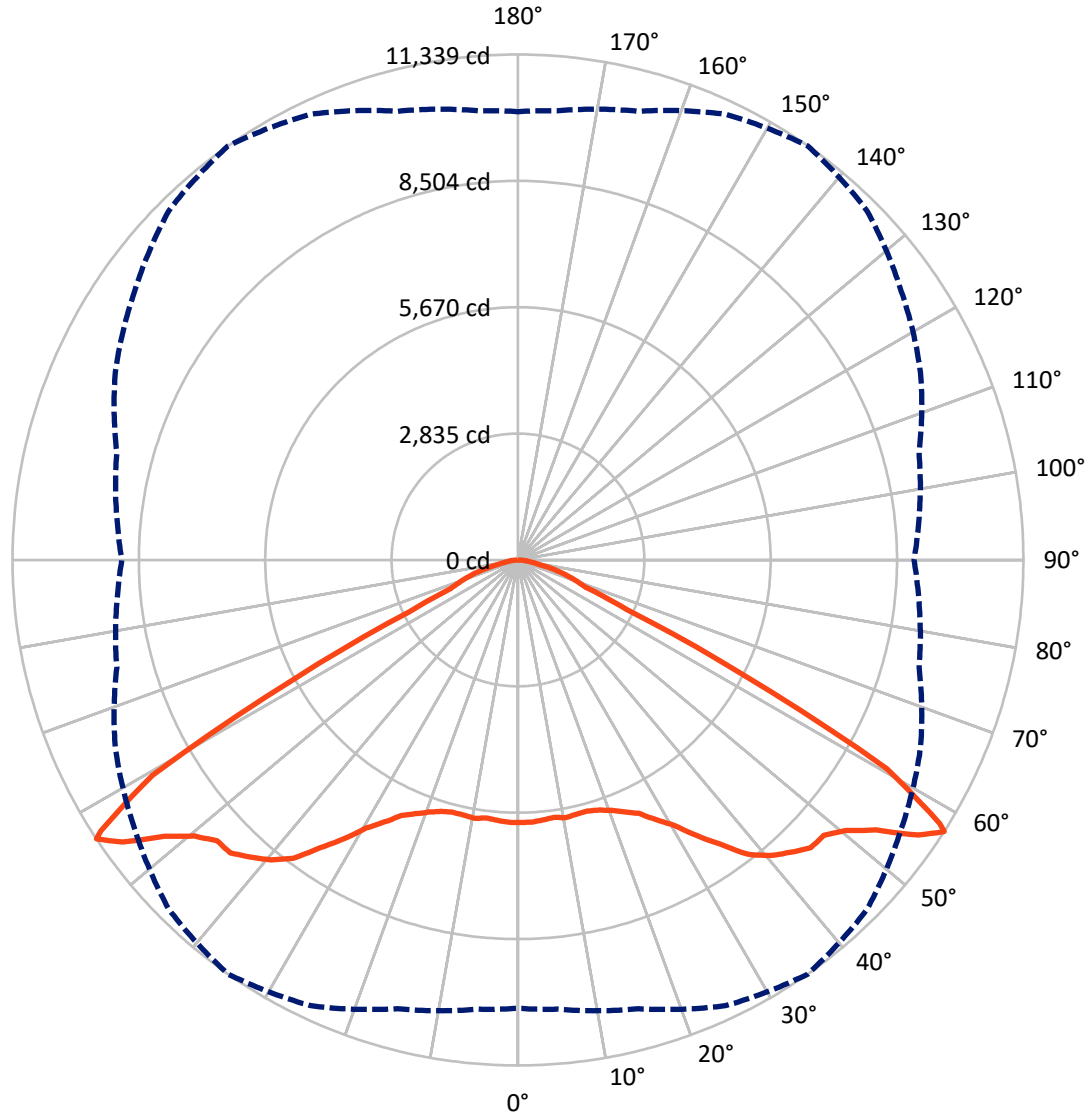
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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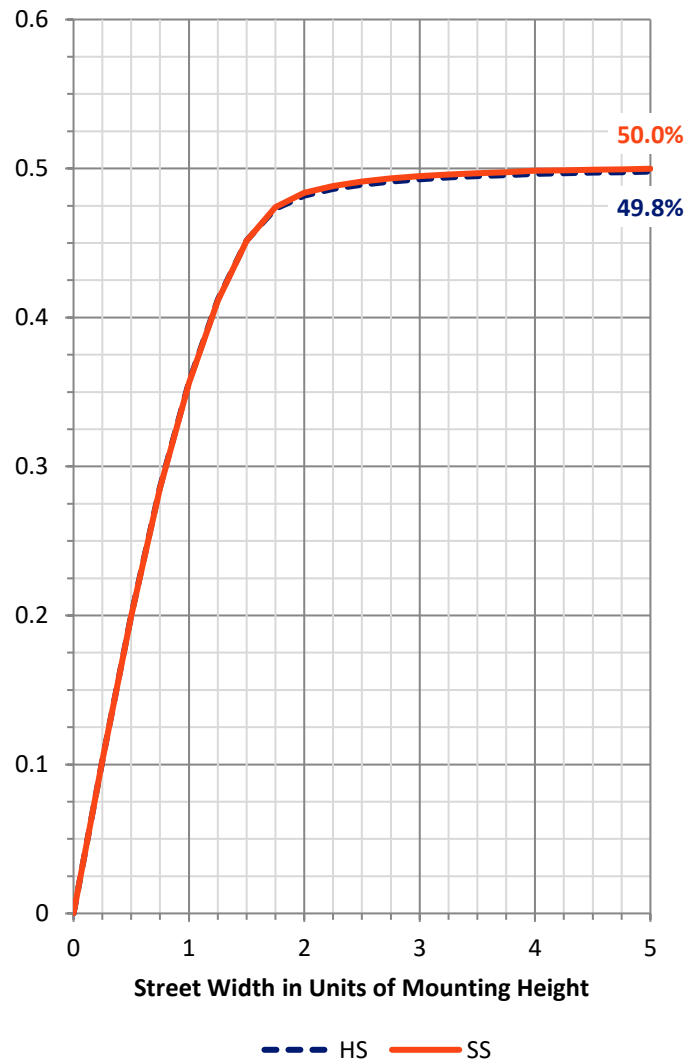
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14907.0	0.0	14907.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14907.0	0.0	14907.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	29814.0	0.0	29814.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	558.2	1.9
10°-20°	1653.3	5.5
20°-30°	2887.4	9.7
30°-40°	4731.1	15.9
40°-50°	6936.9	23.3
50°-60°	8737.5	29.3
60°-70°	3286.1	11.0
70°-80°	873.8	2.9
80°-90°	149.8	0.5
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°	29814.0	100.0
0°-180°	29814.0	100.0



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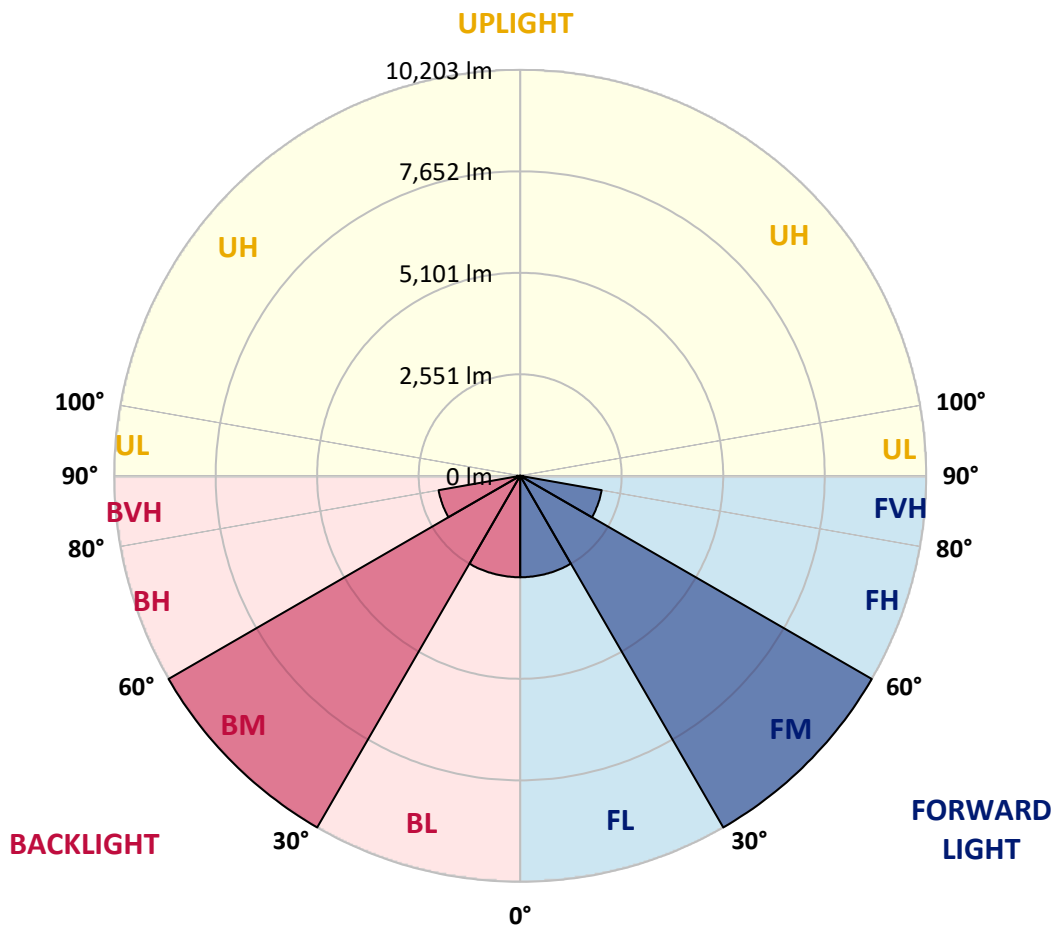
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2549.4	8.6			
FM (30°-60°)	10202.7	34.2			
FH (60°-80°)	2079.9	7.0			G2/5000
FVH (80°-90°)	74.9	0.3			G1/100
BL (0°-30°)	2549.4	8.6	B4/5000		
BM (30°-60°)	10202.7	34.2	B5		
BH (60°-80°)	2079.9	7.0	B3/2500		G2/5000
BVH (80°-90°)	74.9	0.3			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°	5888.0	5888.0	5888.0	5888.0	5888.0	5888.0	5888.0	5888.0	5888.0	5888.0	5888.0
2.5°	5858.7	5917.4	5891.7	5877.0	5888.0	5869.7	5840.3	5873.4	5866.0	5836.6	5825.6
5°	5844.0	5888.0	5858.7	5888.0	5858.7	5910.1	5895.4	5840.3	5906.4	5844.0	5866.0
7.5°	5832.9	5847.6	5855.0	5840.3	5829.3	5891.7	5858.7	5832.9	5796.2	5785.2	5803.6
10°	5807.2	5844.0	5788.9	5862.3	5877.0	5832.9	5832.9	5785.2	5755.8	5737.4	5799.9
12.5°	5873.4	5810.9	5803.6	5840.3	5851.3	5869.7	5818.3	5792.5	5737.4	5744.8	5733.8
15°	5796.2	5821.9	5825.6	5832.9	5844.0	5888.0	5840.3	5785.2	5763.2	5686.0	5693.4
17.5°	5825.6	5799.9	5825.6	5910.1	5895.4	5928.4	5877.0	5792.5	5741.1	5697.0	5755.8
20°	5877.0	5866.0	5877.0	5979.9	5998.2	6027.6	5983.5	5906.4	5807.2	5755.8	5785.2
22.5°	5932.1	5924.8	5932.1	6031.3	6137.8	6174.6	6130.5	5950.5	5899.1	5803.6	5770.5
25°	6031.3	6038.6	6115.8	6226.0	6295.8	6365.6	6284.7	6156.2	5990.9	5932.1	5862.3
27.5°	6251.7	6270.1	6314.1	6475.7	6597.0	6659.4	6545.5	6369.2	6266.4	6145.2	6126.8
30°	6523.5	6523.5	6600.6	6740.2	6905.5	7001.0	6861.4	6652.1	6527.2	6461.1	6420.7
32.5°	6883.5	6843.1	6872.4	7118.5	7375.7	7456.5	7269.1	7012.0	6813.7	6725.5	6696.1
35°	7192.0	7217.7	7283.8	7548.3	7834.8	8022.1	7728.3	7394.0	7192.0	7111.2	7096.5
37.5°	7592.4	7636.5	7669.5	8033.2	8378.4	8448.2	8165.4	7897.3	7651.2	7585.0	7548.3
40°	8158.0	8128.7	8139.7	8407.8	8720.0	8764.1	8485.0	8294.0	8091.9	8051.5	8051.5
42.5°	8624.5	8591.5	8628.2	8727.4	8966.1	8933.1	8778.8	8639.2	8554.7	8510.7	8554.7
45°	8907.4	8900.0	8966.1	9039.6	9208.6	9098.4	8977.2	8999.2	8918.4	8844.9	8841.3
47.5°	9215.9	9168.2	9249.0	9359.2	9230.6	9179.2	9171.8	9219.6	9193.9	9065.3	9024.9
50°	9366.5	9348.1	9476.7	9605.3	9535.5	9417.9	9443.6	9520.8	9190.2	9017.6	8918.4
52.5°	9770.6	9774.2	10020.3	10090.1	10060.7	9888.1	9943.2	9733.8	9344.5	9102.0	9113.1
55°	10406.0	10380.3	10655.8	10861.5	10894.5	10674.1	10409.7	10115.8	9627.3	9381.2	9307.7
57°	10057.1	10115.8	10420.7	11030.4	11339.0	11078.2	10501.5	9965.2	9315.1	9017.6	8885.3
57.5°	9590.6	9686.1	10215.0	10828.4	11151.7	11129.6	10387.6	9686.1	9105.7	8642.9	8653.9
60°	7026.7	7045.1	7522.6	8496.0	9506.1	9528.1	8624.5	7695.2	7048.8	6545.5	6615.3
62.5°	3706.2	3790.7	3981.7	4764.1	5638.3	5851.3	5304.0	4826.5	4268.2	3886.2	3922.9
65°	1961.5	1950.4	2042.3	2262.7	2692.4	2802.6	2729.1	2350.8	2156.1	2093.7	2097.4
67.5°	1594.1	1612.5	1601.5	1612.5	1641.9	1689.6	1678.6	1693.3	1704.3	1722.7	1719.0
70°	1351.7	1351.7	1359.1	1362.7	1362.7	1384.8	1410.5	1458.2	1461.9	1480.3	1487.6
72.5°	1065.2	1057.9	1068.9	1094.6	1098.3	1116.6	1153.4	1182.8	1193.8	1193.8	1171.7
75°	723.6	731.0	745.6	767.7	789.7	822.8	852.2	870.5	877.9	866.9	855.8
77.5°	407.7	415.1	426.1	459.1	484.9	514.2	547.3	565.7	584.0	587.7	565.7
80°	242.4	242.4	260.8	286.5	315.9	345.3	374.7	396.7	404.0	404.0	393.0
82.5°	146.9	150.6	165.3	191.0	216.7	235.1	260.8	279.2	293.9	290.2	282.8
85°	77.1	77.1	91.8	113.9	132.2	150.6	150.6	139.6	132.2	113.9	106.5
87.5°	25.7	22.0	29.4	29.4	25.7	29.4	29.4	33.1	33.1	33.1	33.1
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)