

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: P532979

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532979
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
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-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20271 lumens
Efficiency: N/A
Efficacy: 62.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

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

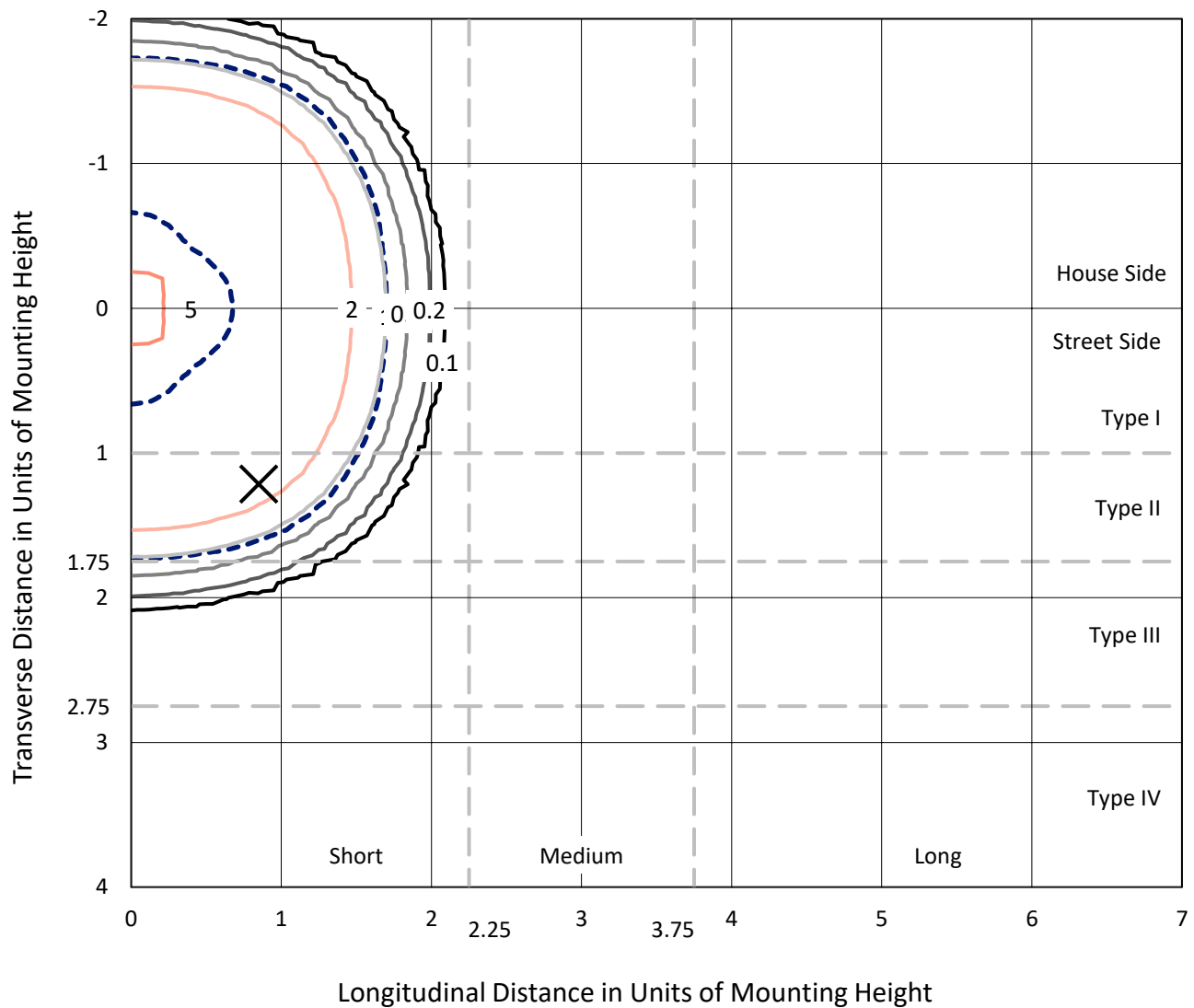


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Iso-Footcandle Lines of Horizontal Illumination

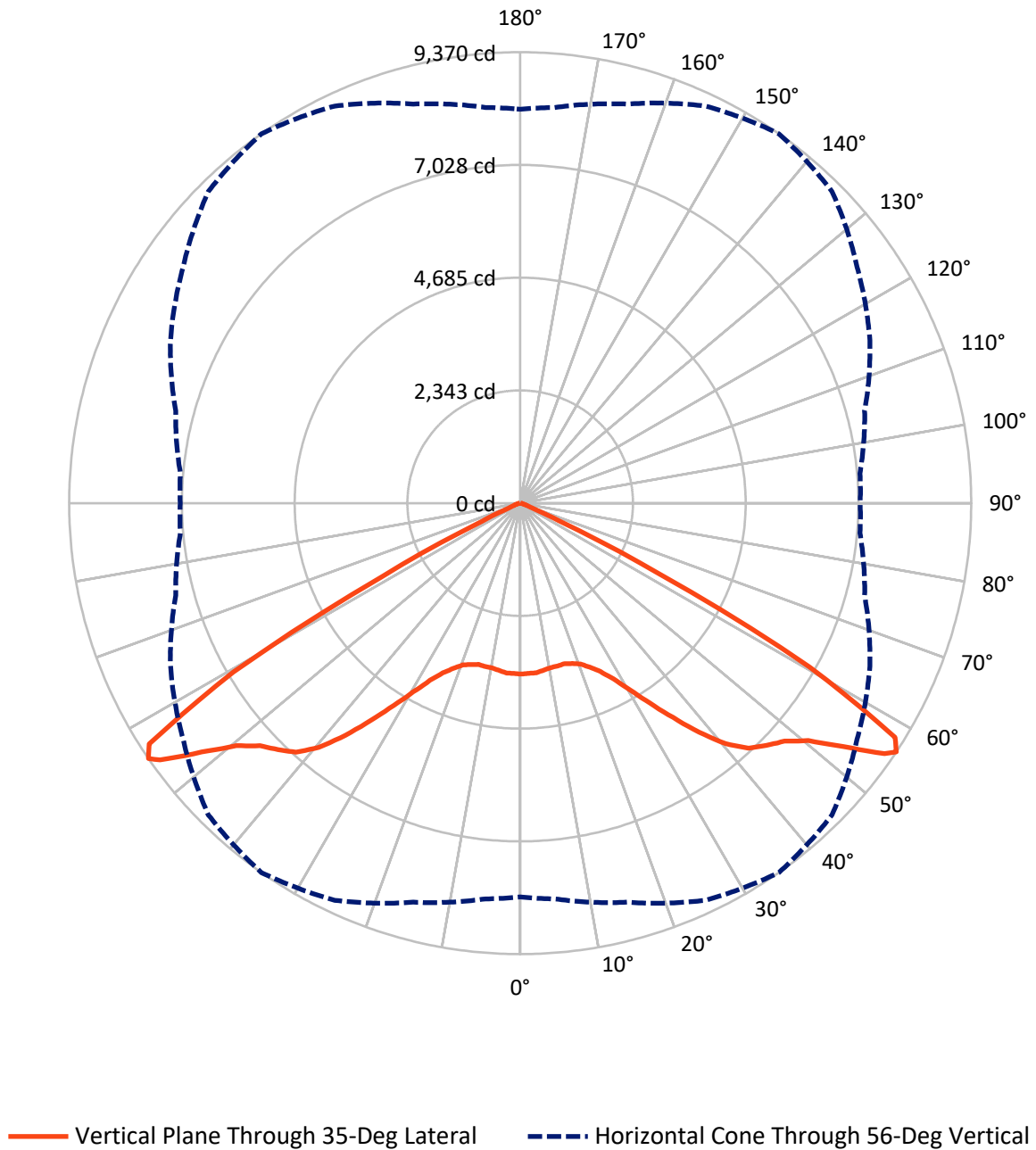
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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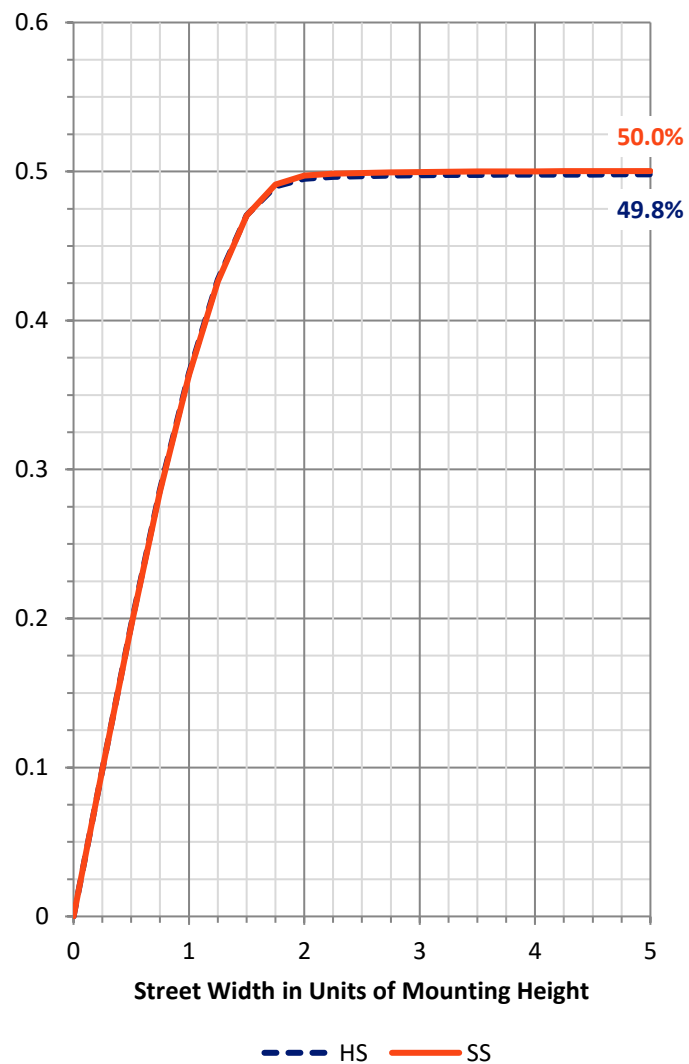
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10135.5	0.0	10135.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10135.5	0.0	10135.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	20271.0	0.0	20271.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.8	1.6
10°-20°	974.6	4.8
20°-30°	1764.9	8.7
30°-40°	3272.7	16.1
40°-50°	5371.9	26.5
50°-60°	6920.7	34.1
60°-70°	1525.2	7.5
70°-80°	88.5	0.4
80°-90°	18.6	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°	20271.0	100.0
0°-180°	20271.0	100.0

Coefficient of Utilization



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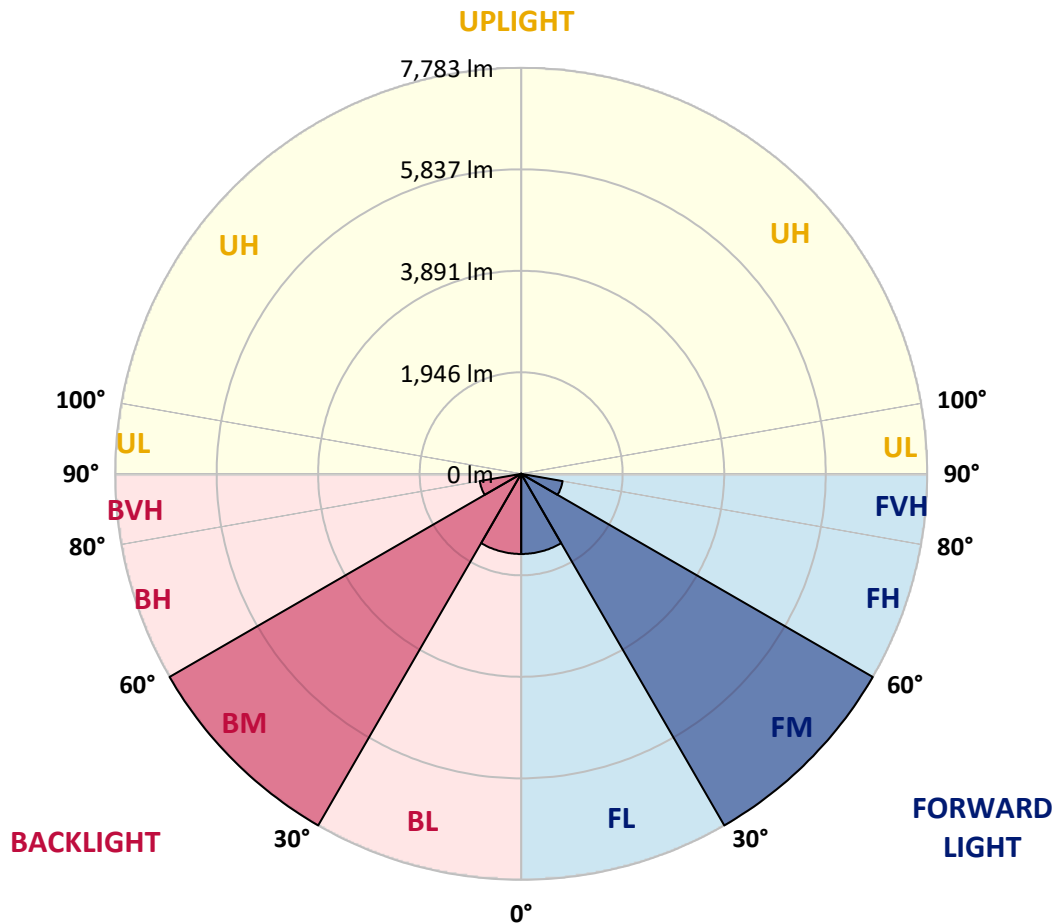
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1536.7	7.6			
FM	(30°-60°)	7782.7	38.4			
FH	(60°-80°)	806.9	4.0			G1/1800
FVH	(80°-90°)	9.3	0.0			G0/10
BL	(0°-30°)	1536.7	7.6	B3/2500		
BM	(30°-60°)	7782.7	38.4	B4/8500		
BH	(60°-80°)	806.9	4.0	B2/1000		G1/1800
BVH	(80°-90°)	9.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3551.9	3551.9	3551.9	3551.9	3551.9	3551.9	3551.9	3551.9	3551.9	3551.9	3551.9
2.5°	3559.3	3559.3	3562.9	3566.6	3540.9	3529.9	3533.5	3526.2	3522.5	3533.5	3533.5
5°	3548.2	3548.2	3537.2	3540.9	3540.9	3507.8	3507.8	3515.2	3515.2	3493.1	3485.8
7.5°	3518.9	3511.5	3496.8	3515.2	3504.2	3504.2	3478.5	3460.1	3452.7	3467.4	3452.7
10°	3456.4	3460.1	3474.8	3482.1	3474.8	3496.8	3452.7	3427.0	3401.3	3390.3	3390.3
12.5°	3427.0	3449.1	3427.0	3445.4	3471.1	3452.7	3427.0	3408.7	3371.9	3357.2	3357.2
15°	3423.4	3438.0	3445.4	3471.1	3460.1	3467.4	3416.0	3394.0	3338.9	3313.2	3302.1
17.5°	3419.7	3438.0	3449.1	3496.8	3504.2	3507.8	3467.4	3401.3	3353.6	3327.9	3302.1
20°	3460.1	3467.4	3489.5	3537.2	3566.6	3618.0	3544.6	3474.8	3371.9	3342.5	3331.5
22.5°	3511.5	3548.2	3570.3	3621.7	3698.8	3742.9	3647.4	3559.3	3452.7	3416.0	3371.9
25°	3676.8	3669.5	3706.2	3812.7	3875.2	3908.2	3831.1	3702.5	3562.9	3518.9	3526.2
27.5°	3882.5	3889.8	3922.9	4040.4	4132.3	4183.7	4091.9	3922.9	3787.0	3713.5	3706.2
30°	4150.6	4143.3	4180.0	4338.0	4503.3	4580.4	4418.8	4220.4	4088.2	3992.7	4014.7
32.5°	4433.5	4437.1	4540.0	4683.2	4951.4	5102.0	4841.2	4598.8	4400.4	4334.3	4301.2
35°	4852.2	4870.6	4951.4	5171.8	5469.3	5664.0	5377.5	5087.3	4859.5	4738.3	4753.0
37.5°	5370.1	5351.7	5487.7	5726.4	6038.6	6181.9	5939.4	5608.9	5377.5	5296.7	5348.1
40°	5921.1	5939.4	6009.2	6226.0	6574.9	6670.4	6310.4	6130.5	5928.4	5888.0	5950.5
42.5°	6472.1	6461.0	6512.5	6707.1	6960.6	6894.5	6681.4	6574.9	6431.6	6350.8	6435.3
45°	6876.1	6857.7	6953.2	7085.5	7177.3	7052.4	6956.9	6920.2	6846.7	6758.6	6835.7
47.5°	7269.1	7254.4	7346.3	7383.0	7390.3	7225.0	7243.4	7309.5	7125.9	6942.2	7030.4
50°	7603.4	7577.7	7691.5	7772.3	7754.0	7489.5	7555.6	7489.5	7203.0	6986.3	6953.2
52.5°	8161.7	8172.7	8293.9	8440.8	8396.8	8176.4	8080.9	7779.7	7412.4	7217.7	7103.8
55°	8514.3	8459.2	8668.6	9135.1	9186.5	8958.8	8536.4	8091.9	7540.9	7302.2	7272.8
56°	8183.7	8253.5	8584.1	9105.7	9370.2	9160.8	8547.4	8014.8	7408.7	7085.5	7063.4
57.5°	7342.6	7305.9	7754.0	8466.6	9186.5	9098.3	8246.2	7463.8	6758.6	6394.9	6350.8
60°	4569.4	4675.9	5068.9	5950.5	6912.8	6956.9	6112.1	5439.9	4617.1	4293.9	4371.0
62.5°	1788.8	1697.0	1943.1	2600.6	3261.7	3408.7	3089.1	2567.5	2108.4	1788.8	1766.8
65°	415.1	404.0	455.5	628.1	877.9	1017.5	966.0	694.2	510.6	484.9	448.1
67.5°	235.1	235.1	224.1	224.1	246.1	260.8	249.8	246.1	257.1	268.1	264.5
70°	165.3	161.6	154.3	157.9	150.6	150.6	161.6	180.0	194.7	194.7	198.3
72.5°	99.2	99.2	99.2	110.2	110.2	110.2	121.2	135.9	139.6	135.9	132.2
75°	44.1	44.1	51.4	62.4	69.8	73.5	84.5	91.8	99.2	91.8	84.5
77.5°	11.0	11.0	18.4	25.7	33.1	40.4	55.1	66.1	69.8	66.1	55.1
80°	3.7	3.7	7.3	18.4	33.1	40.4	55.1	58.8	62.4	55.1	44.1
82.5°	3.7	3.7	7.3	18.4	25.7	33.1	44.1	51.4	55.1	47.8	44.1
85°	0.0	3.7	7.3	14.7	22.0	29.4	29.4	22.0	18.4	11.0	14.7
87.5°	0.0	0.0	3.7	3.7	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)