

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: P532043

Luminaire Tested: **GALN-SA7B-827-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532043
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-SA7B-827-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 17485 lumens
Efficiency: N/A
Efficacy: 61.1 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

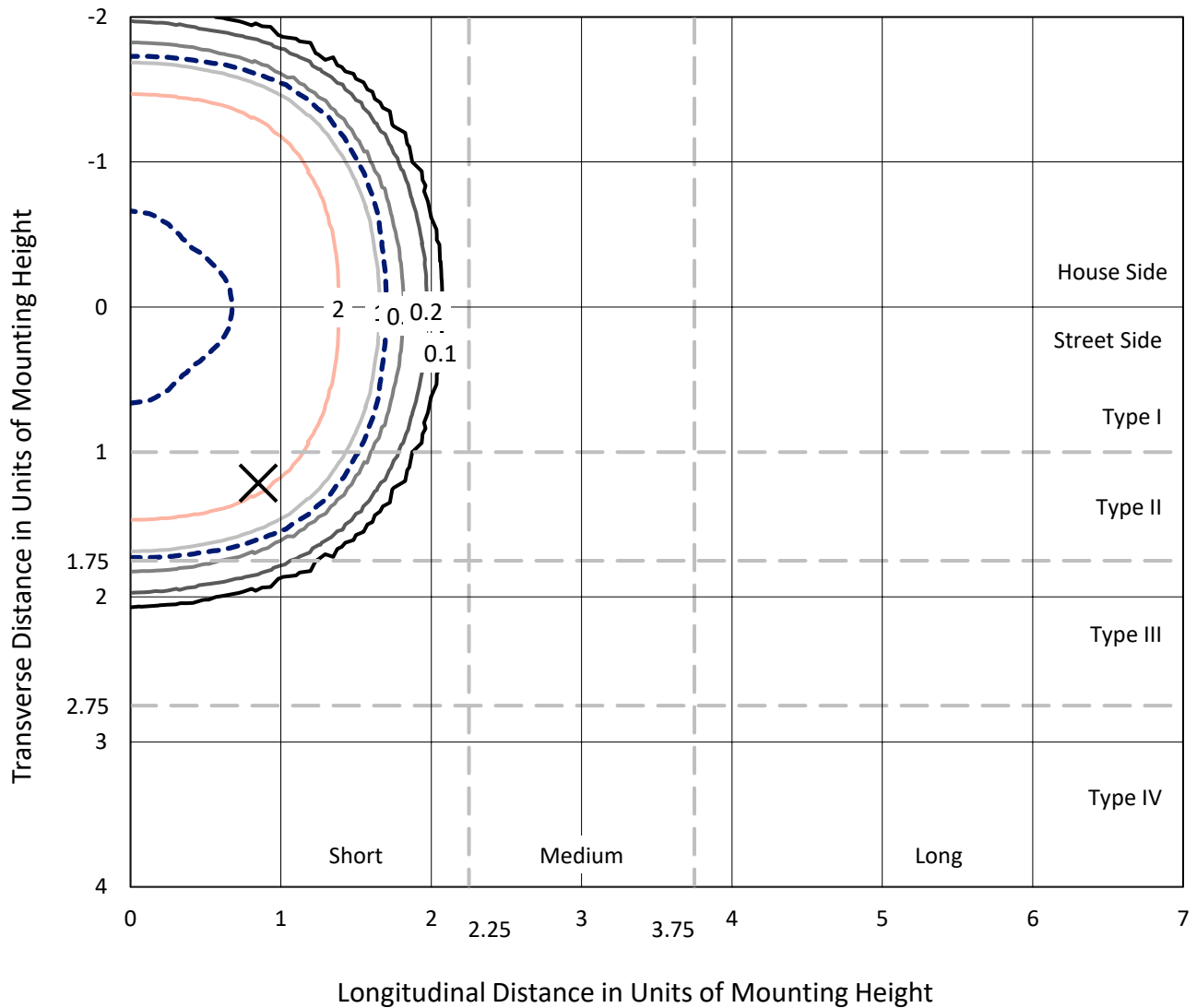
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

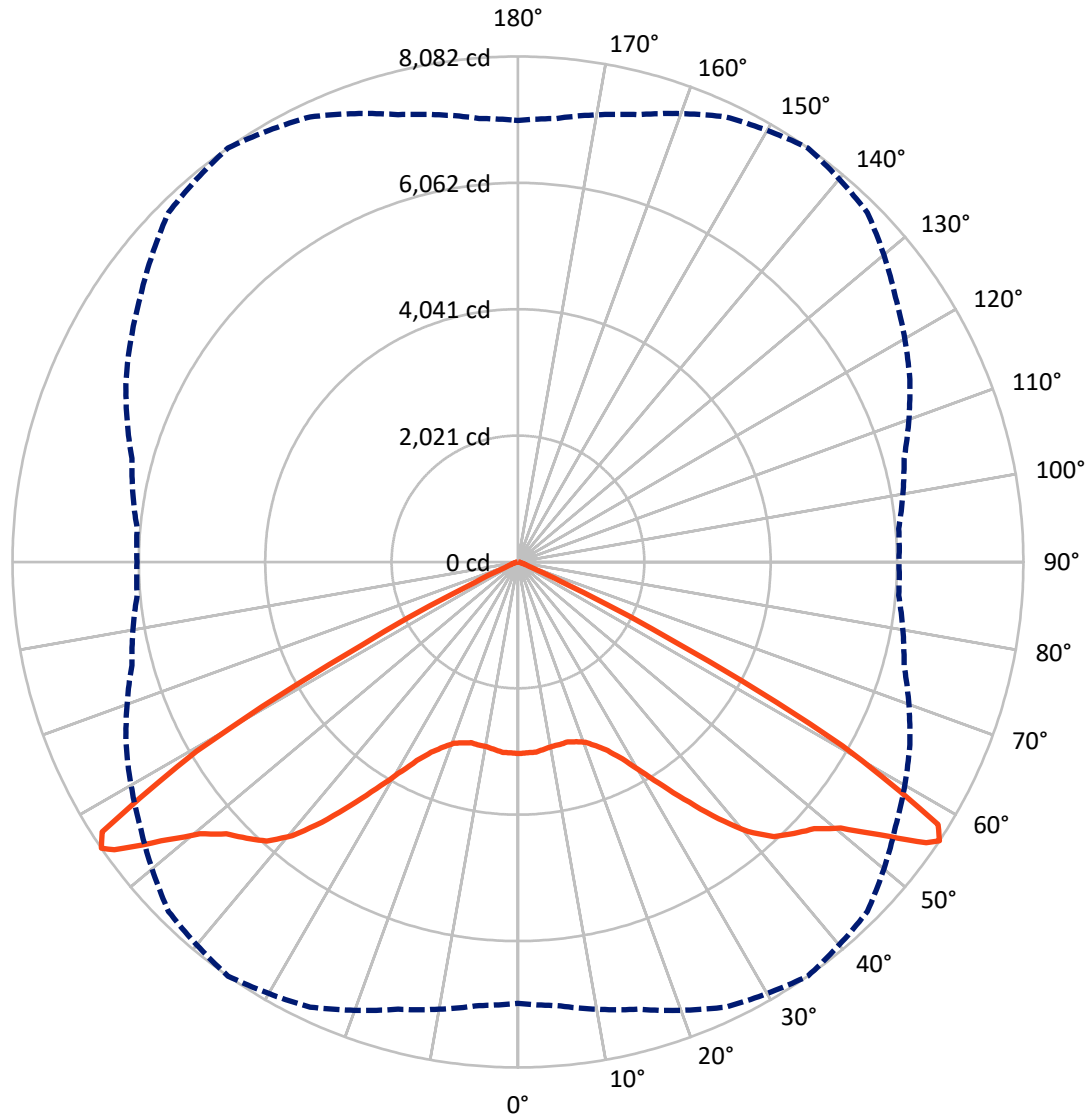
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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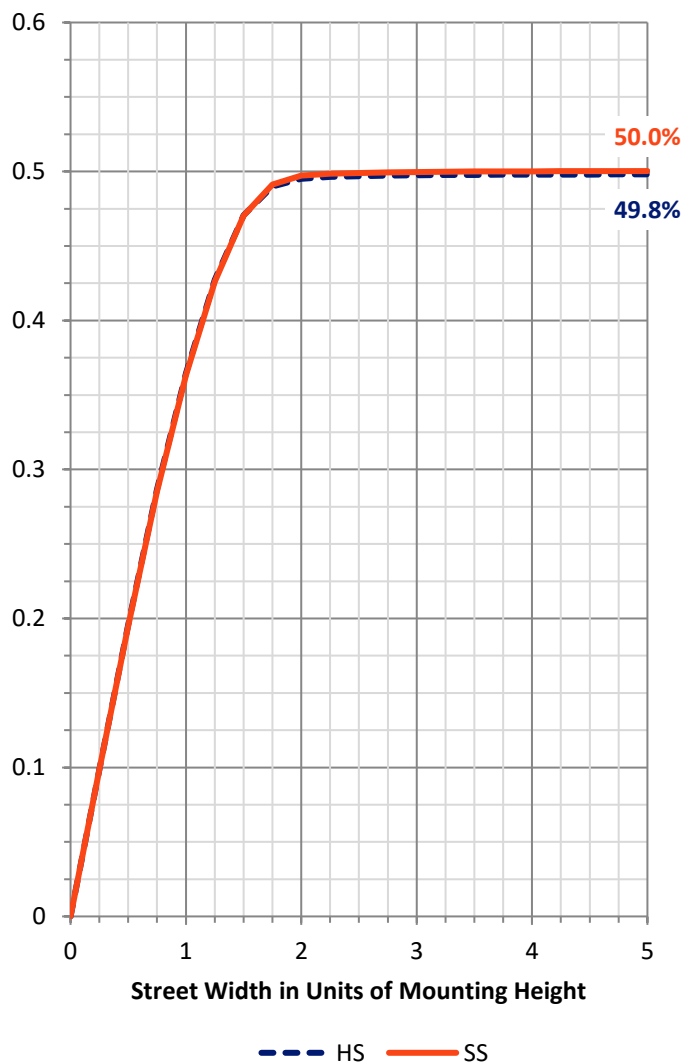
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8742.5	0.0	8742.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8742.5	0.0	8742.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	17485.0	0.0	17485.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.9	1.6
10°-20°	840.7	4.8
20°-30°	1522.3	8.7
30°-40°	2822.9	16.1
40°-50°	4633.6	26.5
50°-60°	5969.5	34.1
60°-70°	1315.6	7.5
70°-80°	76.3	0.4
80°-90°	16.1	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°	17485.0	100.0
0°-180°	17485.0	100.0

Coefficient of Utilization



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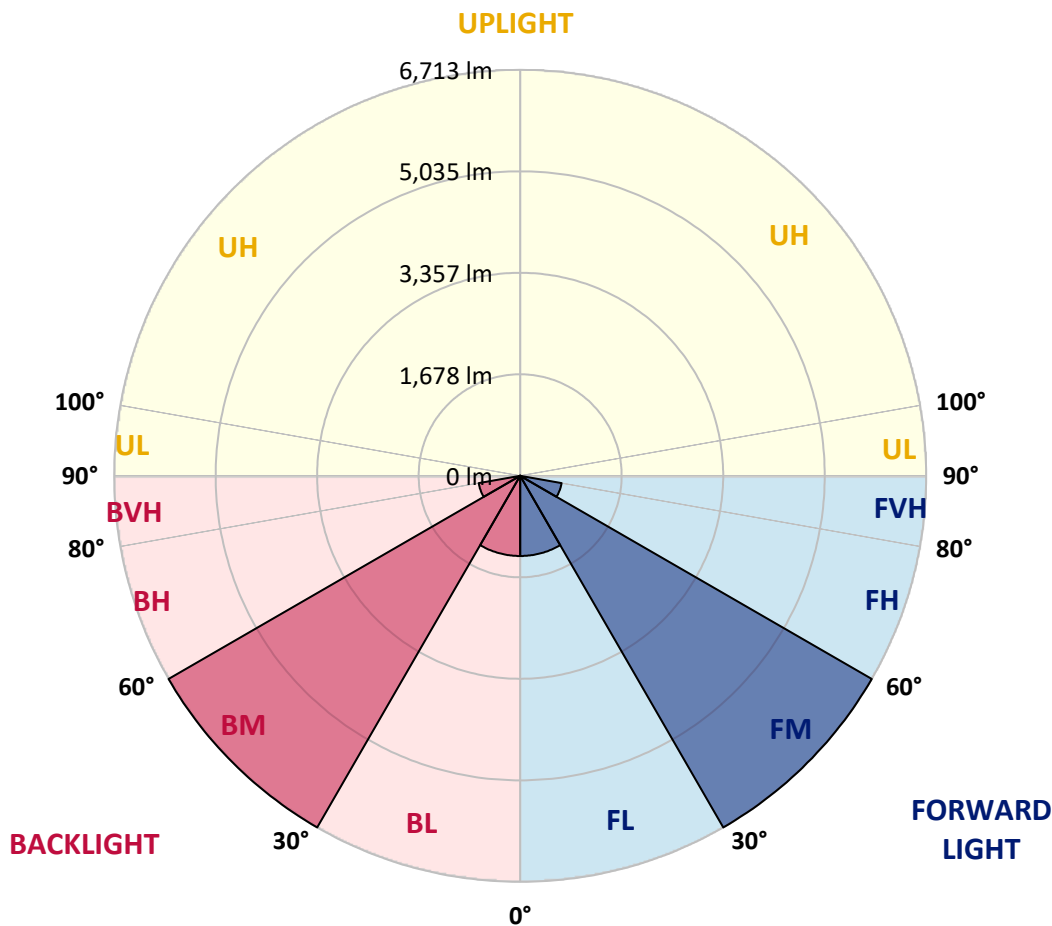
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1325.5	7.6			
FM (30°-60°)	6713.0	38.4			
FH (60°-80°)	696.0	4.0			G1/1800
FVH (80°-90°)	8.0	0.0			G0/10
BL (0°-30°)	1325.5	7.6	B3/2500		
BM (30°-60°)	6713.0	38.4	B4/8500		
BH (60°-80°)	696.0	4.0	B2/1000		G1/1800
BVH (80°-90°)	8.0	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°	3063.7	3063.7	3063.7	3063.7	3063.7	3063.7	3063.7	3063.7	3063.7	3063.7	3063.7
2.5°	3070.1	3070.1	3073.3	3076.4	3054.2	3044.7	3047.9	3041.6	3038.4	3047.9	3047.9
5°	3060.6	3060.6	3051.1	3054.2	3054.2	3025.7	3025.7	3032.1	3032.1	3013.1	3006.7
7.5°	3035.2	3028.9	3016.2	3032.1	3022.6	3022.6	3000.4	2984.5	2978.2	2990.9	2978.2
10°	2981.4	2984.5	2997.2	3003.6	2997.2	3016.2	2978.2	2956.0	2933.8	2924.3	2924.3
12.5°	2956.0	2975.0	2956.0	2971.9	2994.0	2978.2	2956.0	2940.2	2908.5	2895.8	2895.8
15°	2952.9	2965.5	2971.9	2994.0	2984.5	2990.9	2946.5	2927.5	2880.0	2857.8	2848.3
17.5°	2949.7	2965.5	2975.0	3016.2	3022.6	3025.7	2990.9	2933.8	2892.7	2870.5	2848.3
20°	2984.5	2990.9	3009.9	3051.1	3076.4	3120.8	3057.4	2997.2	2908.5	2883.2	2873.6
22.5°	3028.9	3060.6	3079.6	3123.9	3190.5	3228.5	3146.1	3070.1	2978.2	2946.5	2908.5
25°	3171.5	3165.1	3196.8	3288.7	3342.6	3371.1	3304.5	3193.6	3073.3	3035.2	3041.6
27.5°	3348.9	3355.2	3383.7	3485.1	3564.3	3608.7	3529.5	3383.7	3266.5	3203.2	3196.8
30°	3580.2	3573.8	3605.5	3741.8	3884.3	3950.9	3811.5	3640.4	3526.3	3443.9	3463.0
32.5°	3824.1	3827.3	3916.0	4039.6	4270.9	4400.8	4175.8	3966.7	3795.6	3738.6	3710.1
35°	4185.3	4201.2	4270.9	4461.0	4717.6	4885.5	4638.4	4388.1	4191.7	4087.1	4099.8
37.5°	4632.1	4616.2	4733.4	4939.4	5208.7	5332.3	5123.1	4838.0	4638.4	4568.7	4613.0
40°	5107.3	5123.1	5183.3	5370.3	5671.3	5753.6	5443.1	5287.9	5113.6	5078.8	5132.6
42.5°	5582.5	5573.0	5617.4	5785.3	6003.9	5946.9	5763.1	5671.3	5547.7	5478.0	5550.9
45°	5931.1	5915.2	5997.6	6111.7	6190.9	6083.1	6000.8	5969.1	5905.7	5829.7	5896.2
47.5°	6270.1	6257.4	6336.6	6368.3	6374.6	6232.1	6247.9	6304.9	6146.5	5988.1	6064.1
50°	6558.4	6536.2	6634.4	6704.1	6688.3	6460.2	6517.2	6460.2	6213.0	6026.1	5997.6
52.5°	7040.0	7049.5	7154.0	7280.8	7242.7	7052.6	6970.3	6710.5	6393.6	6225.7	6127.5
55°	7344.1	7296.6	7477.2	7879.6	7923.9	7727.5	7363.1	6979.8	6504.5	6298.6	6273.2
56°	7059.0	7119.2	7404.3	7854.2	8082.3	7901.7	7372.6	6913.2	6390.5	6111.7	6092.6
57.5°	6333.4	6301.8	6688.3	7302.9	7923.9	7847.9	7112.8	6438.0	5829.7	5516.0	5478.0
60°	3941.4	4033.2	4372.3	5132.6	5962.7	6000.8	5272.1	4692.3	3982.6	3703.7	3770.3
62.5°	1543.0	1463.8	1676.0	2243.2	2813.5	2940.2	2664.5	2214.6	1818.6	1543.0	1524.0
65°	358.0	348.5	392.9	541.8	757.2	877.6	833.3	598.8	440.4	418.2	386.5
67.5°	202.8	202.8	193.3	193.3	212.3	224.9	215.4	212.3	221.8	231.3	228.1
70°	142.6	139.4	133.1	136.2	129.9	129.9	139.4	155.2	167.9	167.9	171.1
72.5°	85.5	85.5	85.5	95.0	95.0	95.0	104.6	117.2	120.4	117.2	114.1
75°	38.0	38.0	44.4	53.9	60.2	63.4	72.9	79.2	85.5	79.2	72.9
77.5°	9.5	9.5	15.8	22.2	28.5	34.9	47.5	57.0	60.2	57.0	47.5
80°	3.2	3.2	6.3	15.8	28.5	34.9	47.5	50.7	53.9	47.5	38.0
82.5°	3.2	3.2	6.3	15.8	22.2	28.5	38.0	44.4	47.5	41.2	38.0
85°	0.0	3.2	6.3	12.7	19.0	25.3	25.3	19.0	15.8	9.5	12.7
87.5°	0.0	0.0	3.2	3.2	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)