

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: P652539

Luminaire Tested: **GALN-SA8B-840-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652539
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-840-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20157.1 lumens
Efficiency: N/A
Efficacy: 62.0 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

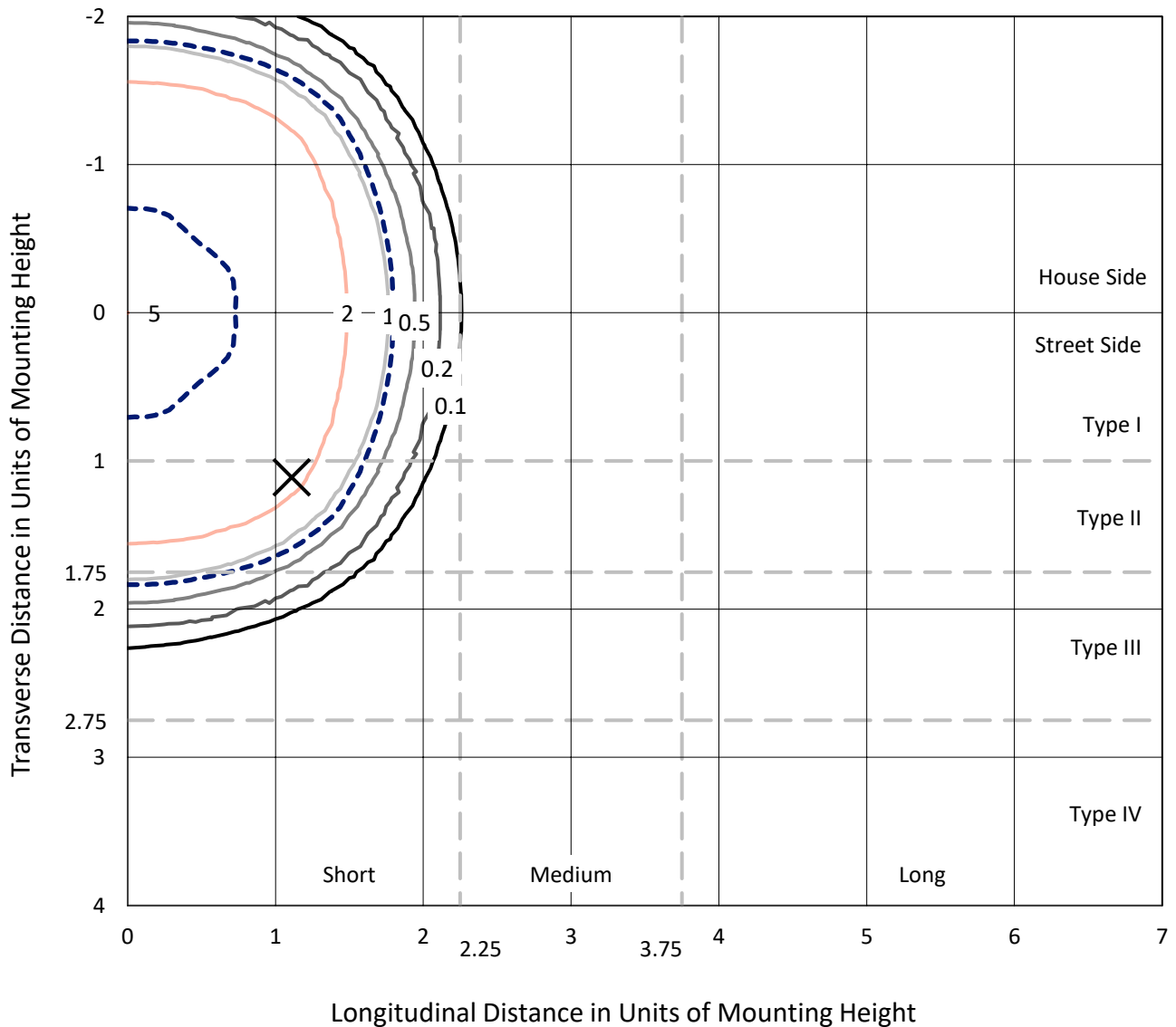
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

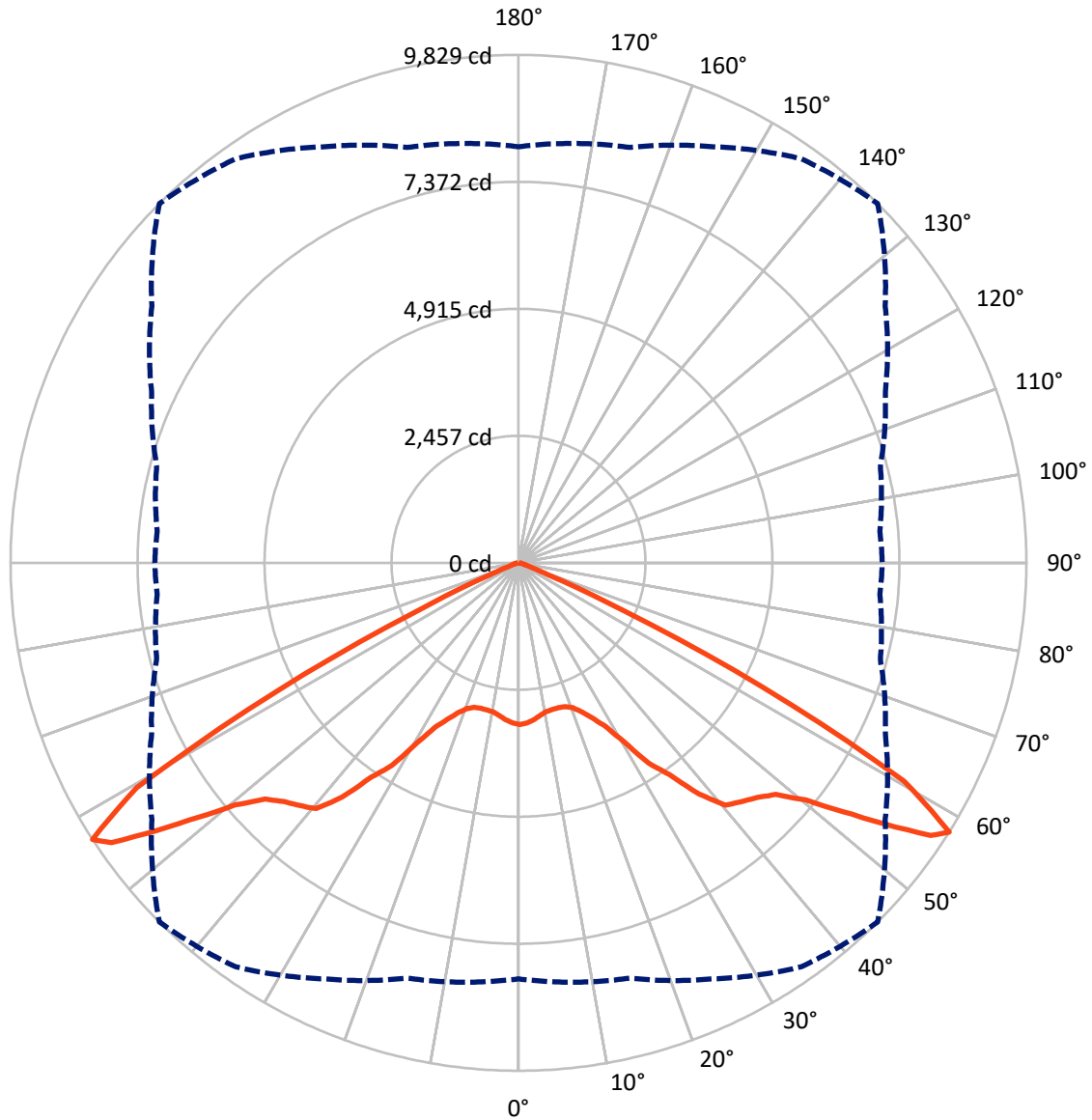
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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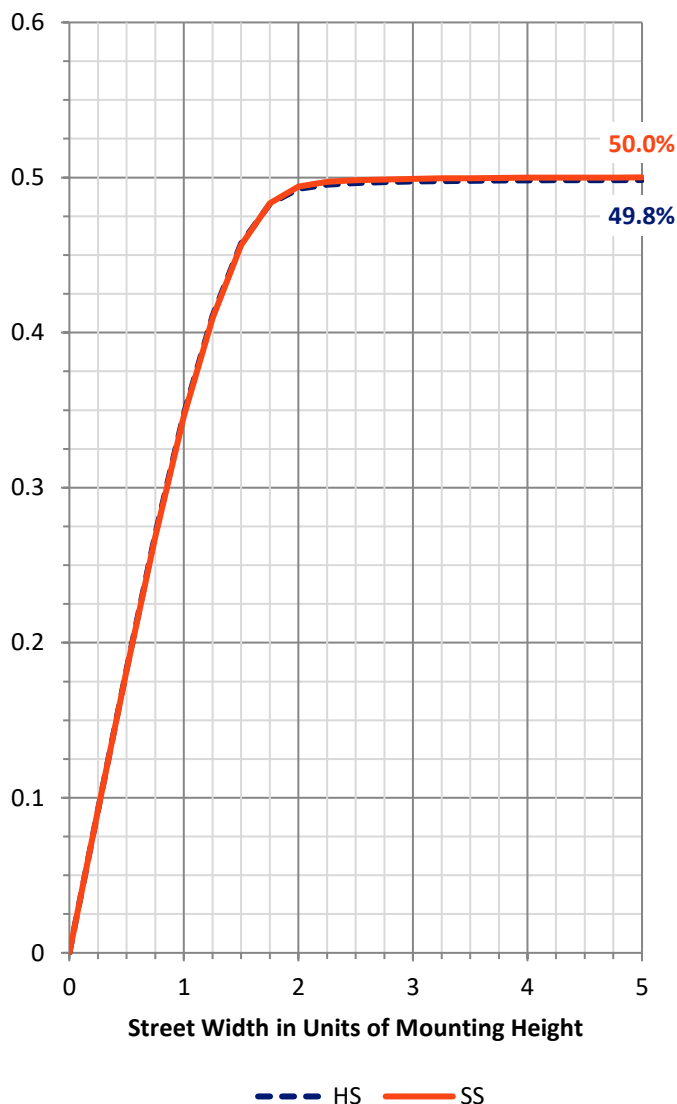
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10078.5	0.0	10078.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10078.5	0.0	10078.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	20157.1	0.0	20157.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.3	1.4
10°-20°	830.5	4.1
20°-30°	1532.9	7.6
30°-40°	3014.7	15.0
40°-50°	4910.2	24.4
50°-60°	7002.5	34.7
60°-70°	2424.4	12.0
70°-80°	130.0	0.6
80°-90°	24.4	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°	20157.1	100.0
0°-180°	20157.1	100.0

Coefficient of Utilization

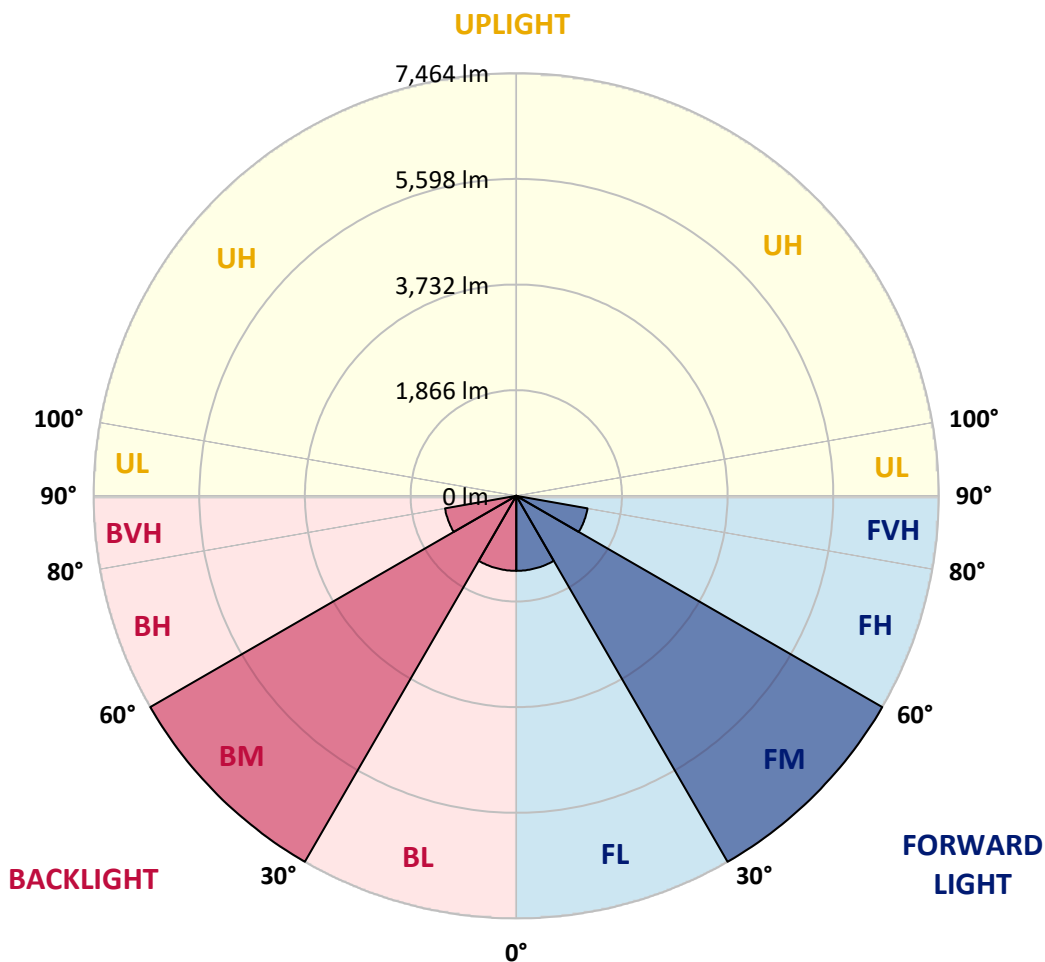


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1325.4	6.6			
FM (30°-60°)	7463.7	37.0			
FH (60°-80°)	1277.2	6.3			G1/1800
FVH (80°-90°)	12.2	0.1			G1/100
BL (0°-30°)	1325.4	6.6	B3/2500		
BM (30°-60°)	7463.7	37.0	B4/8500		
BH (60°-80°)	1277.2	6.3	B3/2500		G1/1800
BVH (80°-90°)	12.2	0.1			G1/100
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°	3126.6	3126.6	3126.6	3126.6	3126.6	3126.6	3126.6	3126.6	3126.6	3126.6	3126.6
2.5°	3118.2	3135.0	3114.0	3105.6	3101.4	3101.4	3088.7	3088.7	3084.5	3088.7	3071.9
5°	3067.7	3084.5	3084.5	3080.3	3055.1	3050.9	3038.4	3030.0	3034.2	3017.3	3030.0
7.5°	3017.3	3030.0	3013.1	3008.9	3000.5	2983.7	2979.5	2941.6	2945.9	2945.9	2954.3
10°	3008.9	3004.7	2979.5	2958.5	2933.2	2929.0	2916.4	2908.0	2908.0	2903.9	2916.4
12.5°	3008.9	2987.9	2983.7	2937.4	2895.5	2912.2	2878.7	2857.6	2887.1	2895.5	2912.2
15°	3004.7	3025.7	2954.3	2933.2	2903.9	2908.0	2878.7	2857.6	2874.5	2882.9	2895.5
17.5°	3030.0	3017.3	2996.3	2954.3	2941.6	2924.8	2887.1	2870.2	2870.2	2891.3	2895.5
20°	3097.2	3063.5	3021.5	3000.5	3013.1	2992.1	2945.9	2882.9	2899.7	2916.4	2929.0
22.5°	3160.2	3135.0	3105.6	3092.9	3164.4	3130.8	3050.9	2979.5	2954.3	2983.7	3004.7
25°	3282.1	3282.1	3227.4	3244.2	3324.1	3328.3	3235.8	3109.8	3092.9	3105.6	3114.0
27.5°	3530.0	3542.6	3496.4	3513.2	3546.8	3576.3	3496.4	3391.3	3353.5	3349.3	3361.9
30°	3799.0	3824.2	3820.0	3891.4	3988.1	4004.8	3887.2	3714.9	3601.4	3580.5	3597.2
32.5°	4151.9	4164.5	4156.1	4240.2	4500.8	4622.6	4315.8	4072.1	3920.8	3958.7	3920.8
35°	4815.9	4803.3	4710.9	4727.7	4942.0	5030.3	4736.1	4580.6	4509.2	4584.8	4568.0
37.5°	5387.4	5341.3	5265.6	5374.8	5597.6	5677.4	5370.6	5097.5	4967.2	5093.3	5147.9
40°	5870.8	5753.0	5648.0	5757.2	6055.6	6164.9	5715.3	5492.5	5442.1	5534.5	5652.2
42.5°	6278.4	6202.7	6064.0	6072.4	6270.0	6320.4	5959.0	5828.7	5778.3	5925.3	5984.2
45°	6568.3	6496.9	6366.6	6358.2	6509.5	6475.9	6152.3	6064.0	6093.5	6190.1	6219.5
47.5°	6715.4	6753.2	6677.6	6698.6	6778.5	6698.6	6442.2	6442.2	6375.0	6433.8	6404.5
50°	7139.8	7022.2	7118.8	7118.8	7202.9	7211.3	6955.0	6862.5	6681.8	6580.9	6580.9
52.5°	7635.8	7644.1	7681.9	7820.6	7963.5	8085.4	7719.8	7324.8	7022.2	6891.9	6875.1
55°	8043.4	8127.4	8278.7	8539.3	8951.1	9119.2	8488.8	7782.8	7413.0	7211.3	7169.3
56°	8266.1	8186.2	8446.8	8804.0	9341.9	9560.4	8614.9	7875.3	7467.7	7240.7	7236.5
57.5°	8051.7	8140.0	8320.7	8883.8	9543.6	9829.4	8661.1	7833.2	7249.1	7018.0	7039.0
60°	6358.2	6442.2	6686.0	7316.4	8350.1	8572.9	7329.0	6459.0	5938.0	5606.0	5610.2
62.5°	3597.2	3660.3	3849.4	4433.5	5076.4	5290.8	4568.0	3988.1	3626.6	3441.8	3382.9
65°	1323.7	1298.5	1327.9	1626.3	2021.3	2202.1	1899.5	1605.3	1416.2	1349.0	1323.7
67.5°	495.9	458.1	428.7	458.1	575.7	609.3	558.9	466.5	437.1	449.7	458.1
70°	306.8	290.0	231.1	218.5	214.3	210.1	222.7	235.3	269.0	315.2	323.6
72.5°	214.3	201.8	163.9	155.5	147.1	142.9	163.9	180.7	210.1	243.7	247.9
75°	84.0	88.2	84.0	92.4	96.6	100.8	117.7	130.3	142.9	142.9	138.7
77.5°	16.8	16.8	25.2	33.6	42.0	54.7	79.8	92.4	96.6	92.4	79.8
80°	0.0	0.0	8.4	16.8	33.6	46.3	71.4	79.8	88.2	79.8	63.1
82.5°	0.0	0.0	8.4	21.0	33.6	42.0	67.3	84.0	96.6	88.2	67.3
85°	0.0	0.0	8.4	16.8	25.2	29.4	29.4	21.0	21.0	12.6	8.4
87.5°	0.0	0.0	0.0	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)