

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: P651544

Luminaire Tested: **GALN-SA8D-840-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651544
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-SA8D-840-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 1200mA 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: 46371.1 lumens
Efficiency: N/A
Efficacy: 94.1 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

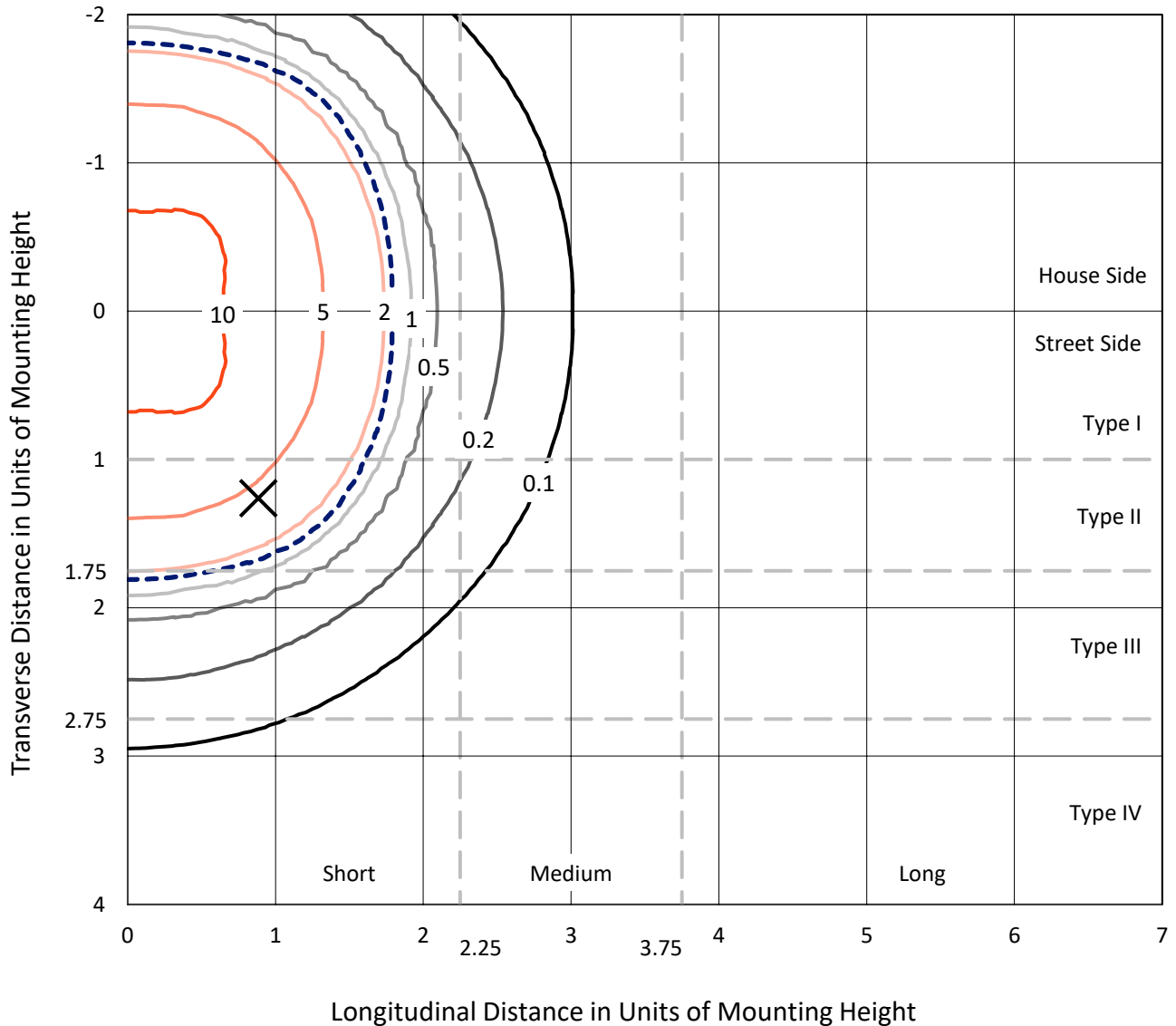
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

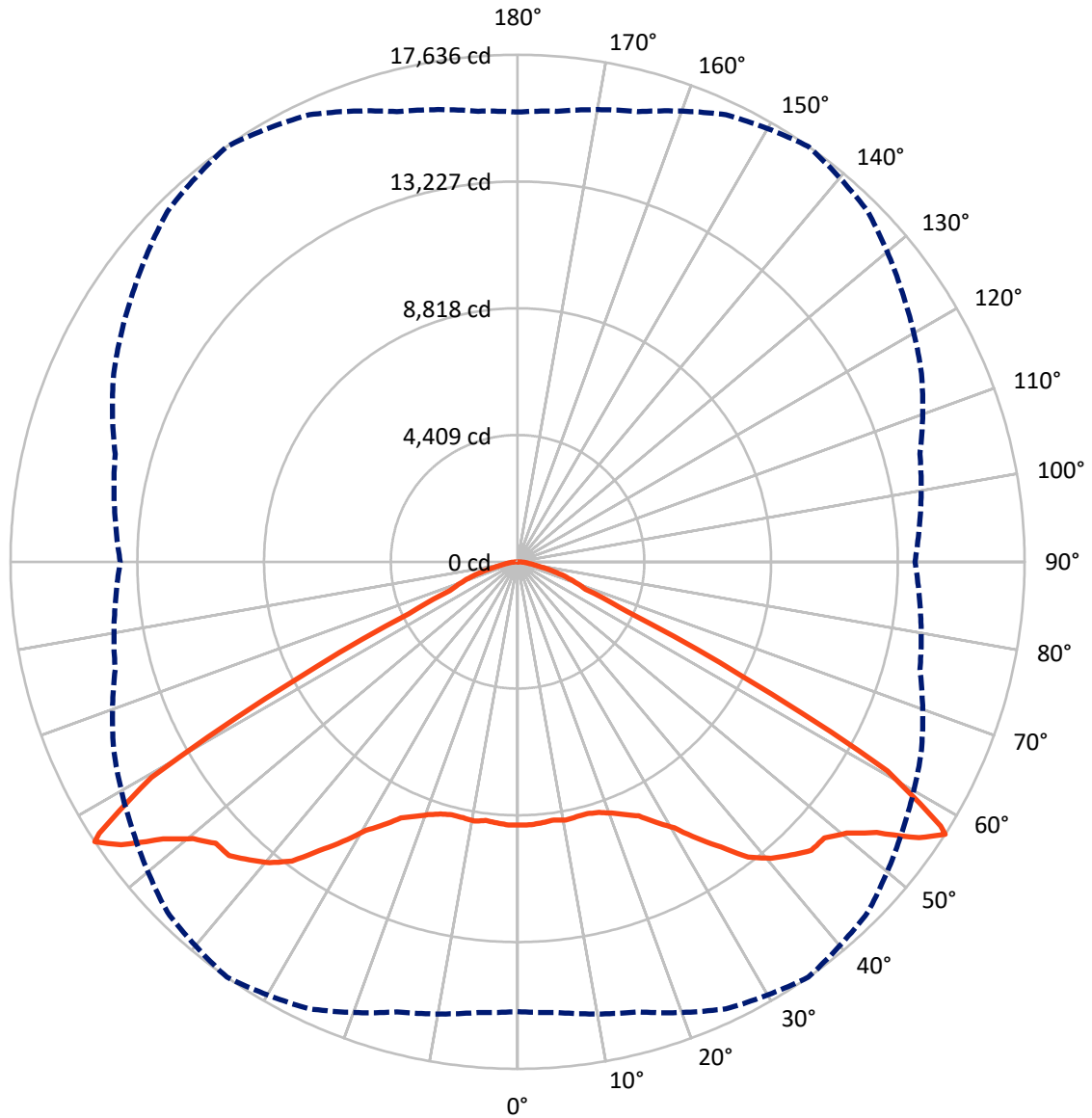
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.7 fc
 Type V - Short - N/A

REPORT NUMBER: P651544
CATALOG NUMBER: GALN-SA8D-840-U-5MQ-GRSWH

Luminous Intensity Polar Plot



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

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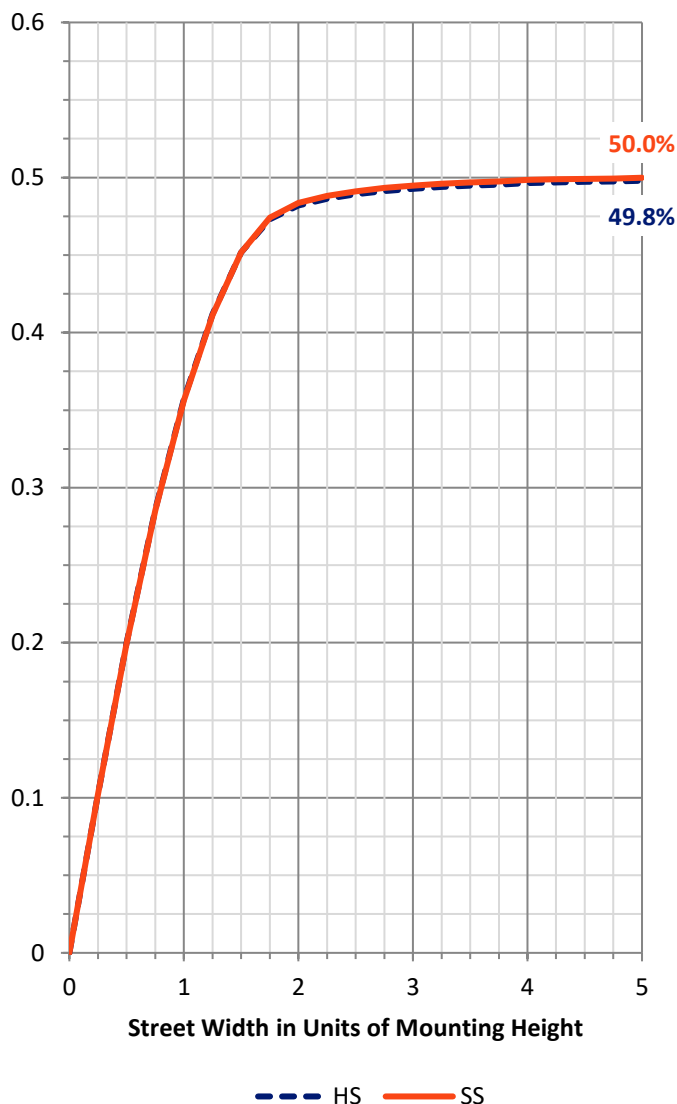
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23185.5	0.0	23185.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	23185.5	0.0	23185.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	46371.1	0.0	46371.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	868.2	1.9
10°-20°	2571.4	5.5
20°-30°	4490.9	9.7
30°-40°	7358.4	15.9
40°-50°	10789.2	23.3
50°-60°	13589.9	29.3
60°-70°	5111.0	11.0
70°-80°	1359.0	2.9
80°-90°	233.0	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°	46371.1	100.0
0°-180°	46371.1	100.0

Coefficient of Utilization



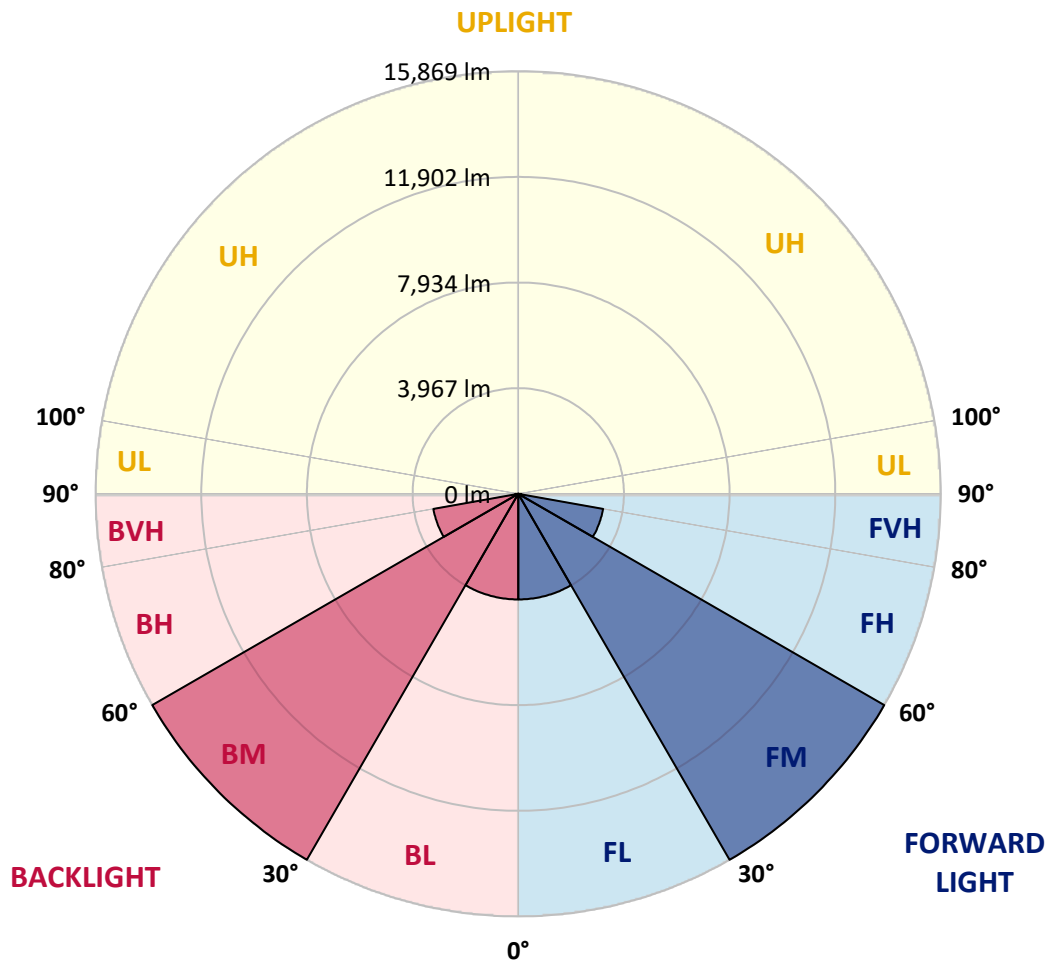
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3965.2	8.6			
FM (30°-60°)	15868.8	34.2			
FH (60°-80°)	3235.0	7.0			G2/5000
FVH (80°-90°)	116.5	0.3			G2/225
BL (0°-30°)	3965.2	8.6	B4/5000		
BM (30°-60°)	15868.8	34.2	B5		
BH (60°-80°)	3235.0	7.0	B4/5000		G2/5000
BVH (80°-90°)	116.5	0.3			G2/225
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°	9157.9	9157.9	9157.9	9157.9	9157.9	9157.9	9157.9	9157.9	9157.9	9157.9	9157.9
2.5°	9112.2	9203.7	9163.6	9140.8	9157.9	9129.4	9083.6	9135.1	9123.7	9077.9	9060.8
5°	9089.4	9157.9	9112.2	9157.9	9112.2	9192.2	9169.3	9083.6	9186.5	9089.4	9123.7
7.5°	9072.3	9095.1	9106.5	9083.6	9066.6	9163.6	9112.2	9072.3	9015.1	8997.9	9026.5
10°	9032.3	9089.4	9003.7	9118.0	9140.8	9072.3	9072.3	8997.9	8952.3	8923.7	9020.8
12.5°	9135.1	9038.0	9026.5	9083.6	9100.8	9129.4	9049.4	9009.4	8923.7	8935.1	8918.0
15°	9015.1	9055.1	9060.8	9072.3	9089.4	9157.9	9083.6	8997.9	8963.7	8843.7	8855.1
17.5°	9060.8	9020.8	9060.8	9192.2	9169.3	9220.8	9140.8	9009.4	8929.4	8860.9	8952.3
20°	9140.8	9123.7	9140.8	9300.8	9329.3	9375.0	9306.5	9186.5	9032.3	8952.3	8997.9
22.5°	9226.5	9215.1	9226.5	9380.8	9546.4	9603.5	9535.0	9255.0	9175.1	9026.5	8975.2
25°	9380.8	9392.2	9512.1	9683.5	9792.1	9900.7	9774.9	9575.0	9317.9	9226.5	9118.0
27.5°	9723.6	9752.1	9820.6	10072.0	10260.5	10357.7	10180.6	9906.3	9746.3	9557.9	9529.3
30°	10146.3	10146.3	10266.3	10483.3	10740.4	10889.0	10671.9	10346.2	10152.0	10049.2	9986.3
32.5°	10706.2	10643.4	10689.0	11071.8	11471.7	11597.4	11306.1	10906.1	10597.6	10460.5	10414.8
35°	11186.1	11226.1	11328.9	11740.2	12185.8	12477.2	12020.2	11500.3	11186.1	11060.4	11037.5
37.5°	11808.7	11877.4	11928.7	12494.3	13031.4	13139.9	12700.0	12283.0	11900.2	11797.4	11740.2
40°	12688.6	12642.8	12660.0	13077.0	13562.6	13631.3	13197.1	12899.9	12585.7	12522.9	12522.9
42.5°	13414.1	13362.7	13419.8	13574.1	13945.5	13894.0	13654.1	13437.0	13305.5	13237.0	13305.5
45°	13854.0	13842.6	13945.5	14059.7	14322.5	14151.1	13962.6	13996.8	13871.2	13756.9	13751.2
47.5°	14333.9	14259.7	14385.3	14556.7	14356.8	14276.8	14265.4	14339.6	14299.6	14099.7	14036.9
50°	14568.1	14539.6	14739.5	14939.5	14831.0	14648.1	14688.1	14808.1	14294.0	14025.4	13871.2
52.5°	15196.6	15202.3	15585.1	15693.6	15647.9	15379.4	15465.1	15139.4	14533.9	14156.8	14174.0
55°	16185.0	16144.9	16573.4	16893.3	16944.8	16602.0	16190.7	15733.6	14973.8	14591.0	14476.7
57°	15642.2	15733.6	16207.8	17156.1	17636.0	17230.4	16333.5	15499.4	14488.2	14025.4	13819.7
57.5°	14916.6	15065.2	15887.8	16842.0	17344.7	17310.4	16156.4	15065.2	14162.5	13442.7	13459.9
60°	10929.0	10957.6	11700.2	13214.2	14785.3	14819.5	13414.1	11968.8	10963.3	10180.6	10289.1
62.5°	5764.4	5895.8	6192.9	7409.8	8769.4	9100.8	8249.5	7506.9	6638.5	6044.4	6101.5
65°	3050.7	3033.6	3176.5	3519.2	4187.6	4359.0	4244.8	3656.3	3353.6	3256.4	3262.2
67.5°	2479.4	2508.0	2490.9	2508.0	2553.7	2628.0	2610.8	2633.7	2650.8	2679.4	2673.7
70°	2102.4	2102.4	2113.8	2119.5	2119.5	2153.8	2193.8	2268.1	2273.8	2302.3	2313.8
72.5°	1656.8	1645.3	1662.5	1702.4	1708.2	1736.7	1793.9	1839.6	1856.8	1856.8	1822.4
75°	1125.4	1136.9	1159.7	1194.1	1228.3	1279.7	1325.4	1354.0	1365.4	1348.3	1331.1
77.5°	634.1	645.6	662.7	714.1	754.1	799.8	851.3	879.8	908.4	914.1	879.8
80°	377.0	377.0	405.6	445.6	491.3	537.1	582.7	617.0	628.4	628.4	611.3
82.5°	228.5	234.2	257.1	297.0	337.1	365.7	405.6	434.2	457.0	451.4	439.9
85°	120.0	120.0	142.8	177.1	205.7	234.2	234.2	217.1	205.7	177.1	165.7
87.5°	40.0	34.3	45.7	45.7	40.0	45.7	45.7	51.4	51.4	51.4	51.4
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)