

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: P652534

Luminaire Tested: **GALN-SA8B-840-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652534
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-840-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 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: 34107.6 lumens
Efficiency: N/A
Efficacy: 104.9 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

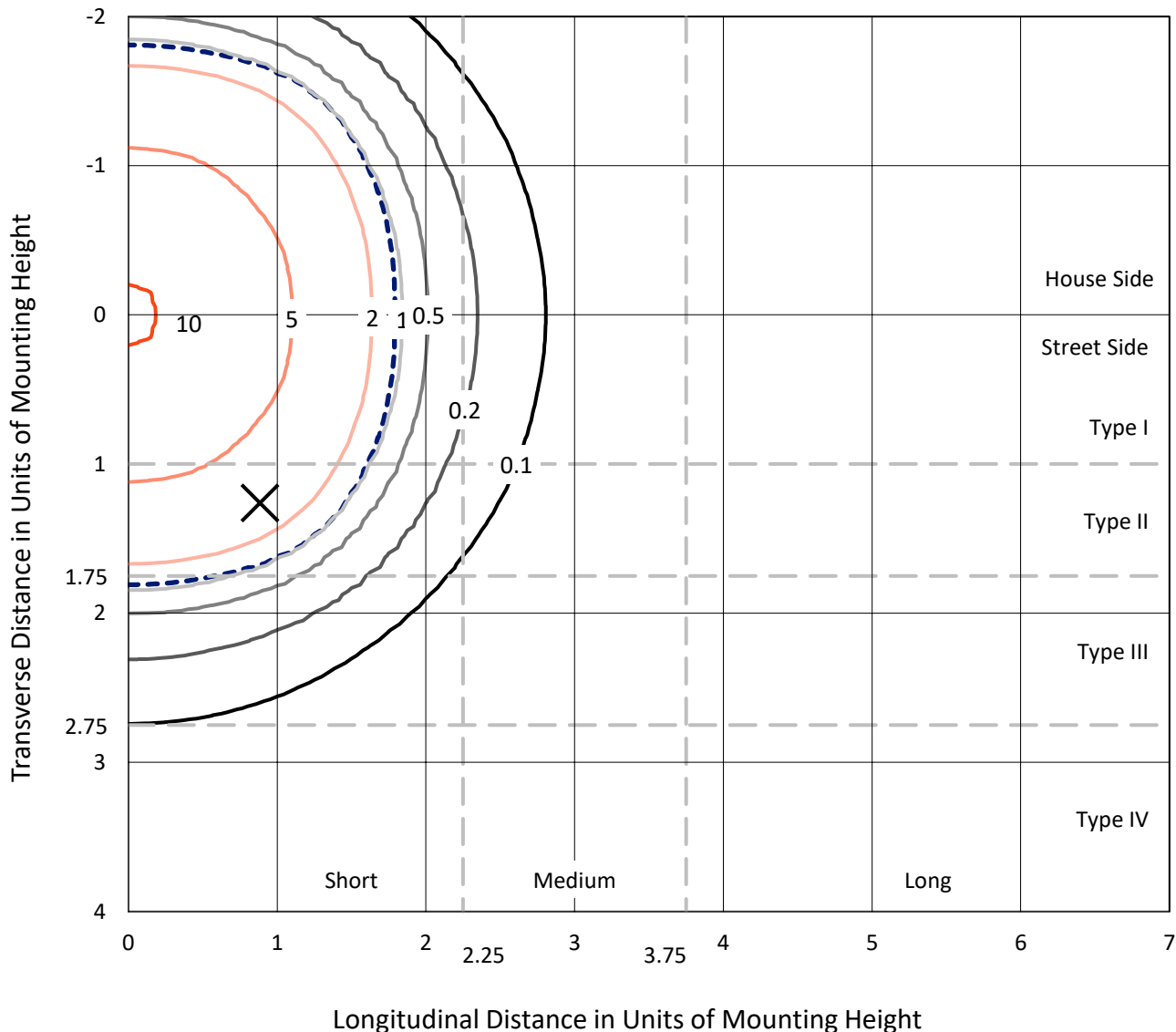
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

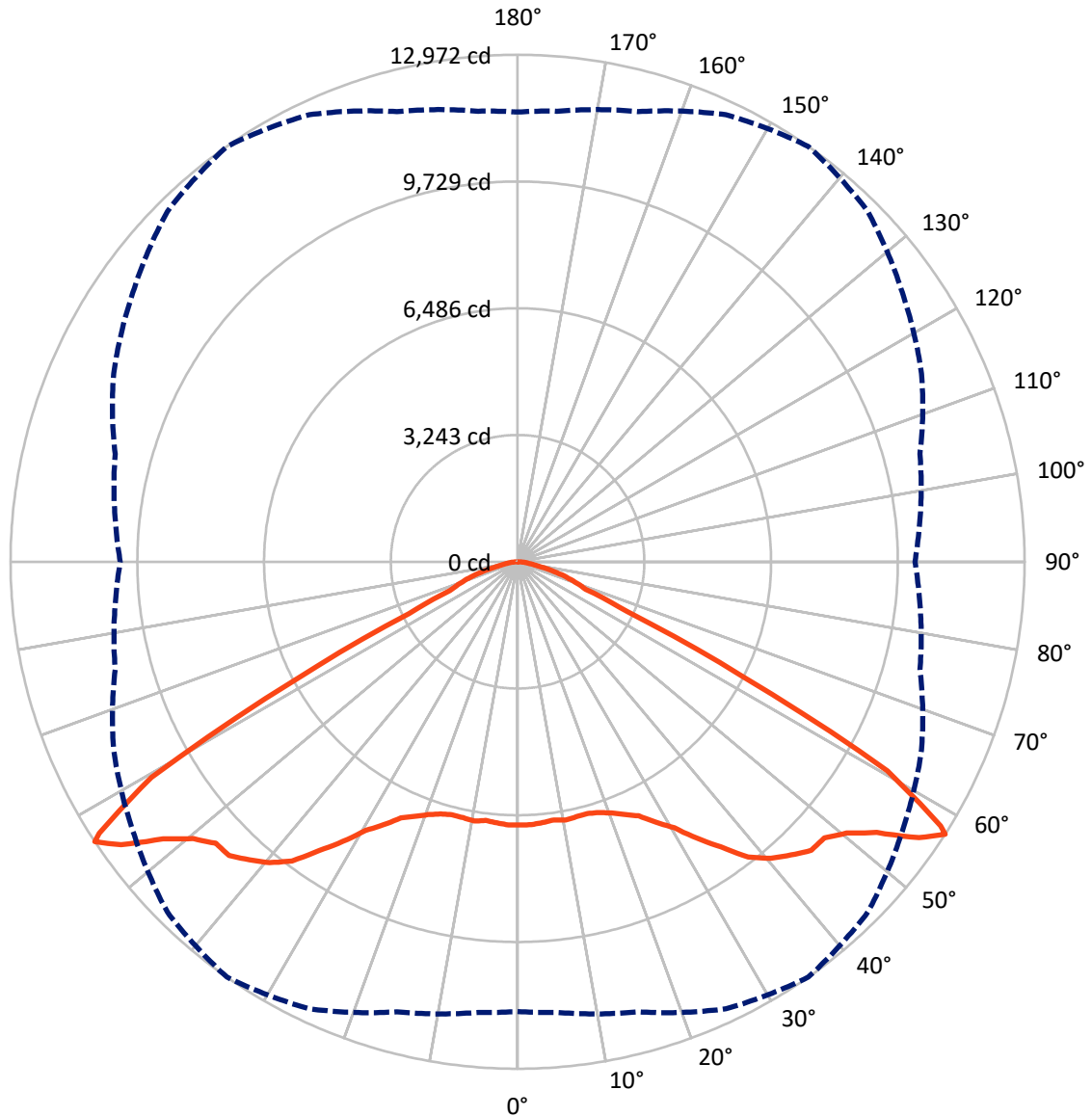
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 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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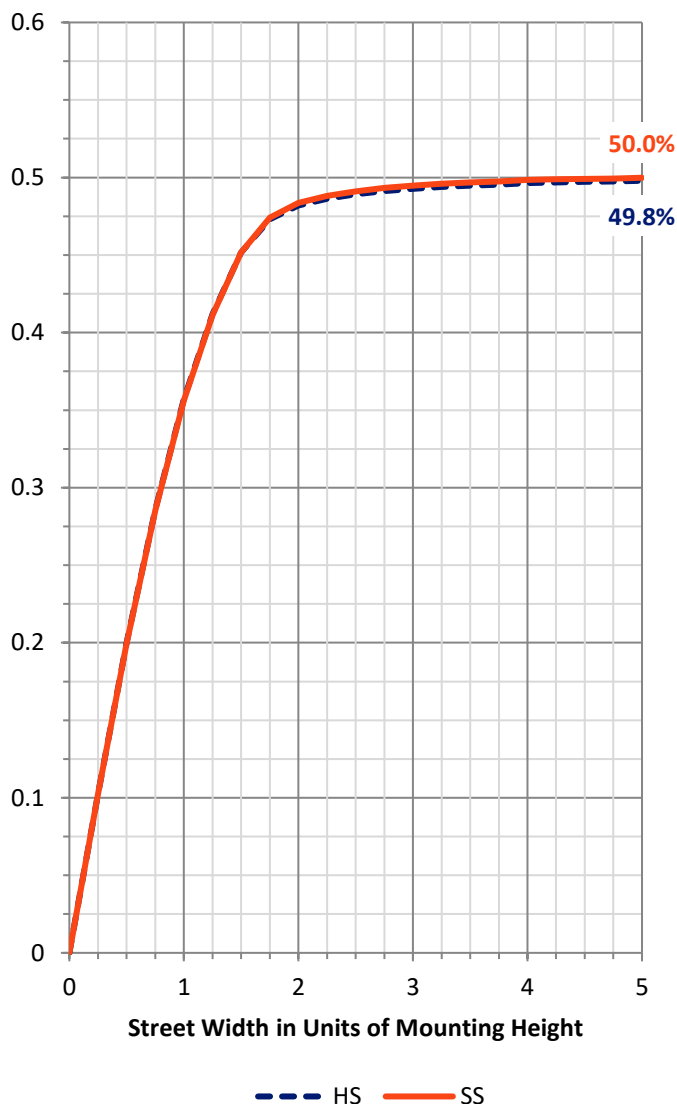
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17053.8	0.0	17053.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17053.8	0.0	17053.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	34107.6	0.0	34107.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	638.6	1.9
10°-20°	1891.3	5.5
20°-30°	3303.2	9.7
30°-40°	5412.4	15.9
40°-50°	7935.9	23.3
50°-60°	9995.9	29.3
60°-70°	3759.3	11.0
70°-80°	999.6	2.9
80°-90°	171.4	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°	34107.6	100.0
0°-180°	34107.6	100.0

Coefficient of Utilization

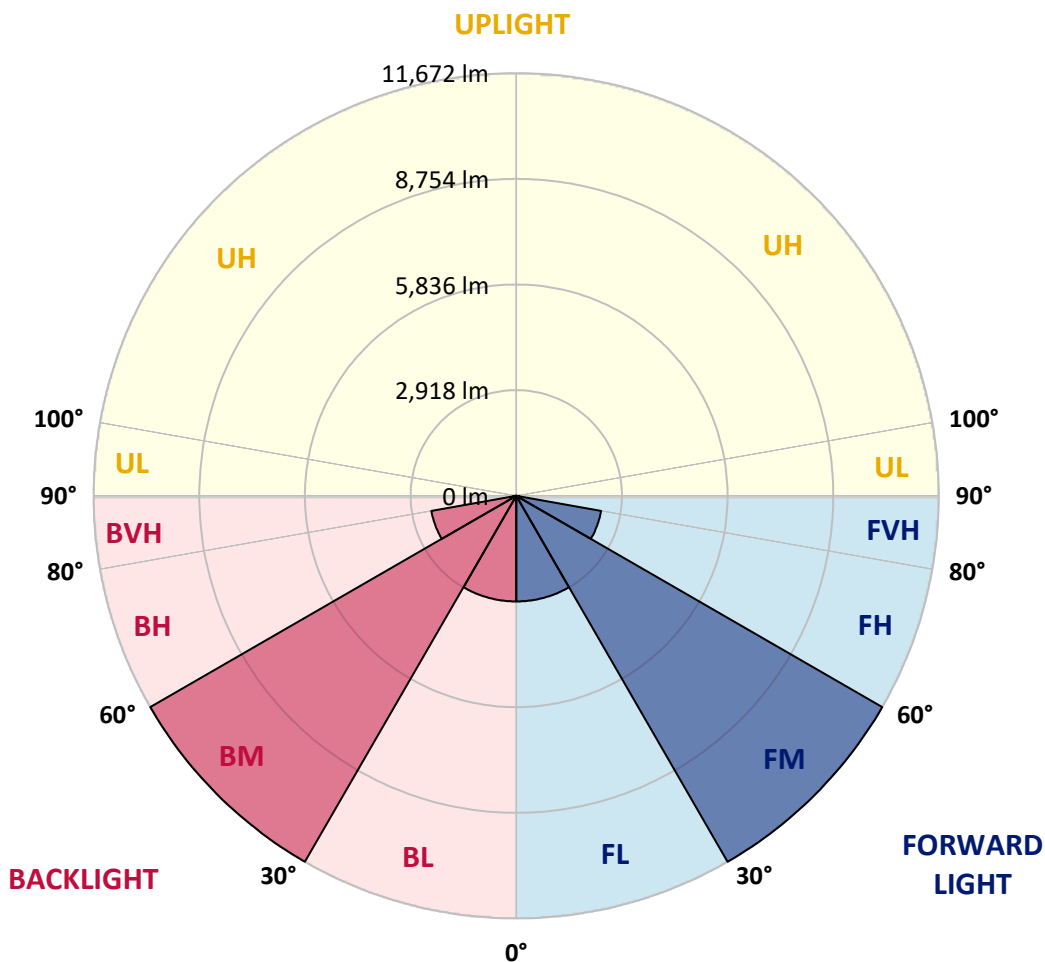


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2916.6	8.6			
FM (30°-60°)	11672.1	34.2			
FH (60°-80°)	2379.5	7.0			G2/5000
FVH (80°-90°)	85.7	0.3			G1/100
BL (0°-30°)	2916.6	8.6	B4/5000		
BM (30°-60°)	11672.1	34.2	B5		
BH (60°-80°)	2379.5	7.0	B3/2500		G2/5000
BVH (80°-90°)	85.7	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°	6736.0	6736.0	6736.0	6736.0	6736.0	6736.0	6736.0	6736.0	6736.0	6736.0	6736.0
2.5°	6702.3	6769.6	6740.2	6723.4	6736.0	6715.0	6681.4	6719.2	6710.8	6677.2	6664.6
5°	6685.6	6736.0	6702.3	6736.0	6702.3	6761.2	6744.4	6681.4	6757.0	6685.6	6710.8
7.5°	6673.0	6689.7	6698.1	6681.4	6668.8	6740.2	6702.3	6673.0	6630.9	6618.3	6639.4
10°	6643.6	6685.6	6622.5	6706.6	6723.4	6673.0	6673.0	6618.3	6584.7	6563.8	6635.2
12.5°	6719.2	6647.8	6639.4	6681.4	6693.9	6715.0	6656.2	6626.7	6563.8	6572.1	6559.5
15°	6630.9	6660.4	6664.6	6673.0	6685.6	6736.0	6681.4	6618.3	6593.1	6504.9	6513.3
17.5°	6664.6	6635.2	6664.6	6761.2	6744.4	6782.2	6723.4	6626.7	6567.9	6517.5	6584.7
20°	6723.4	6710.8	6723.4	6841.0	6862.1	6895.7	6845.2	6757.0	6643.6	6584.7	6618.3
22.5°	6786.4	6778.0	6786.4	6899.9	7021.8	7063.7	7013.4	6807.5	6748.6	6639.4	6601.5
25°	6899.9	6908.3	6996.5	7122.6	7202.4	7282.3	7189.8	7042.8	6853.6	6786.4	6706.6
27.5°	7152.0	7173.1	7223.4	7408.4	7547.0	7618.5	7488.2	7286.5	7168.9	7030.2	7009.1
30°	7462.9	7462.9	7551.2	7710.9	7900.0	8009.3	7849.6	7610.0	7467.2	7391.5	7345.3
32.5°	7874.8	7828.5	7862.2	8143.7	8437.8	8530.3	8316.0	8021.9	7794.9	7694.1	7660.5
35°	8227.8	8257.2	8332.8	8635.4	8963.1	9177.4	8841.3	8458.9	8227.8	8135.3	8118.5
37.5°	8685.8	8736.2	8774.1	9190.0	9585.0	9664.9	9341.3	9034.5	8753.0	8677.4	8635.4
40°	9332.9	9299.3	9311.9	9618.7	9975.9	10026.2	9706.9	9488.4	9257.3	9211.1	9211.1
42.5°	9866.6	9828.8	9870.8	9984.3	10257.3	10219.6	10043.1	9883.3	9786.7	9736.3	9786.7
45°	10190.1	10181.7	10257.3	10341.4	10534.7	10408.6	10270.0	10295.2	10202.8	10118.7	10114.5
47.5°	10543.1	10488.5	10581.0	10707.0	10559.9	10501.1	10492.7	10547.3	10517.9	10370.8	10324.6
50°	10715.4	10694.4	10841.5	10988.5	10908.7	10774.2	10803.7	10891.9	10513.7	10316.2	10202.8
52.5°	11177.6	11181.9	11463.4	11543.2	11509.6	11312.1	11375.1	11135.6	10690.2	10412.8	10425.5
55°	11904.6	11875.2	12190.4	12425.7	12463.5	12211.3	11908.8	11572.7	11013.7	10732.3	10648.2
57°	11505.4	11572.7	11921.4	12619.0	12971.9	12673.6	12013.9	11400.3	10656.6	10316.2	10164.9
57.5°	10971.8	11081.0	11686.1	12387.8	12757.6	12732.4	11883.6	11081.0	10417.0	9887.6	9900.2
60°	8038.6	8059.6	8606.0	9719.5	10875.1	10900.3	9866.6	8803.4	8063.8	7488.2	7568.0
62.5°	4239.9	4336.6	4555.1	5450.2	6450.2	6693.9	6067.9	5521.6	4882.8	4445.9	4487.8
65°	2244.0	2231.3	2336.4	2588.5	3080.2	3206.2	3122.2	2689.3	2466.7	2395.2	2399.4
67.5°	1823.7	1844.7	1832.1	1844.7	1878.4	1933.0	1920.3	1937.2	1949.8	1970.8	1966.6
70°	1546.3	1546.3	1554.8	1559.0	1559.0	1584.2	1613.6	1668.2	1672.4	1693.4	1701.8
72.5°	1218.6	1210.2	1222.8	1252.2	1256.5	1277.5	1319.4	1353.1	1365.7	1365.7	1340.5
75°	827.8	836.2	853.0	878.3	903.5	941.2	974.9	995.9	1004.3	991.7	979.1
77.5°	466.4	474.8	487.4	525.3	554.6	588.3	626.1	647.1	668.2	672.4	647.1
80°	277.4	277.4	298.4	327.7	361.4	395.0	428.7	453.8	462.2	462.2	449.6
82.5°	168.1	172.3	189.1	218.5	247.9	269.0	298.4	319.3	336.1	331.9	323.5
85°	88.2	88.2	105.0	130.3	151.3	172.3	172.3	159.7	151.3	130.3	121.9
87.5°	29.4	25.2	33.6	33.6	29.4	33.6	33.6	37.8	37.8	37.8	37.8
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)