

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: P651063

Luminaire Tested: **GALN-SA8C-840-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651063
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-840-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49259.9 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

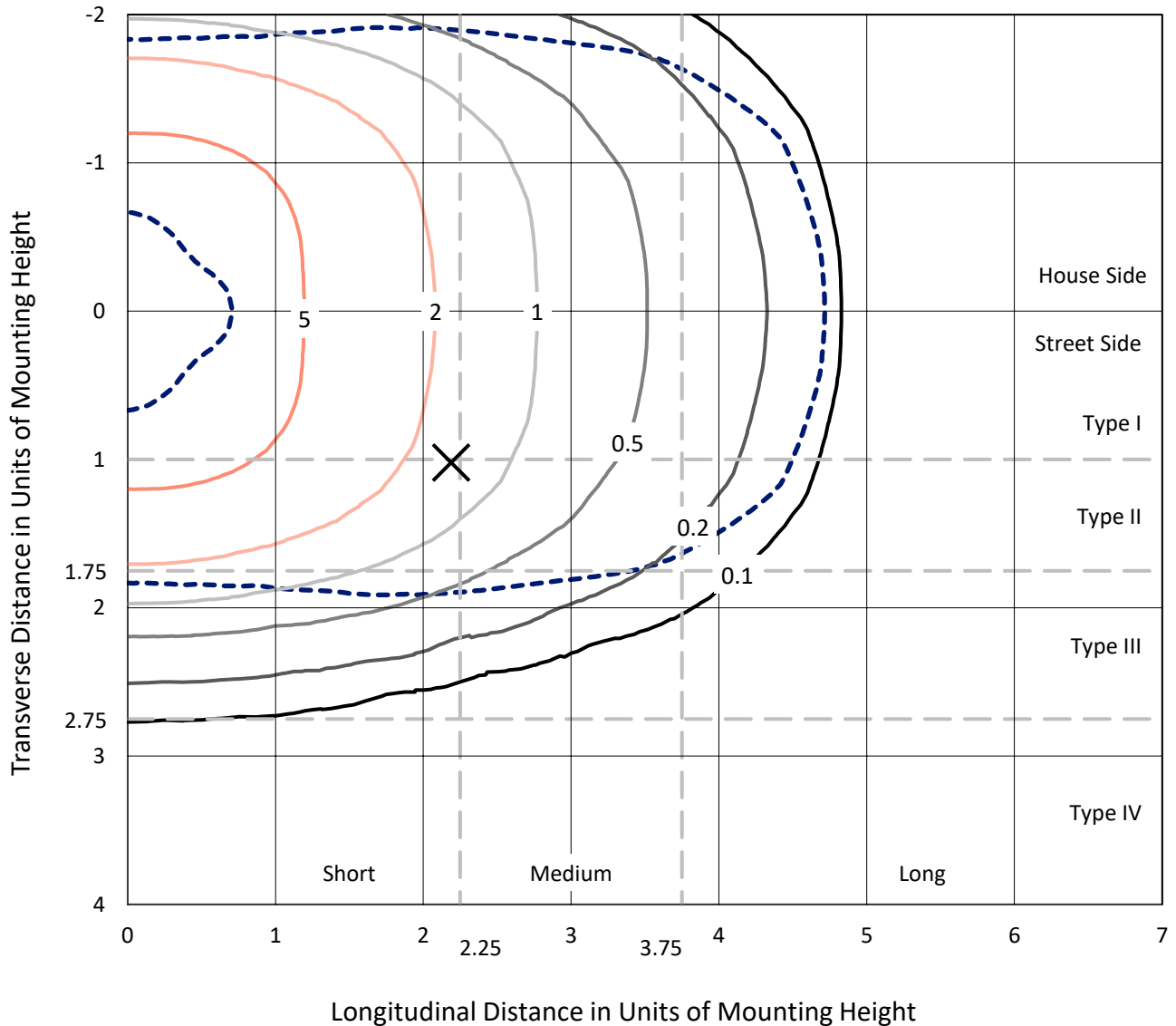
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

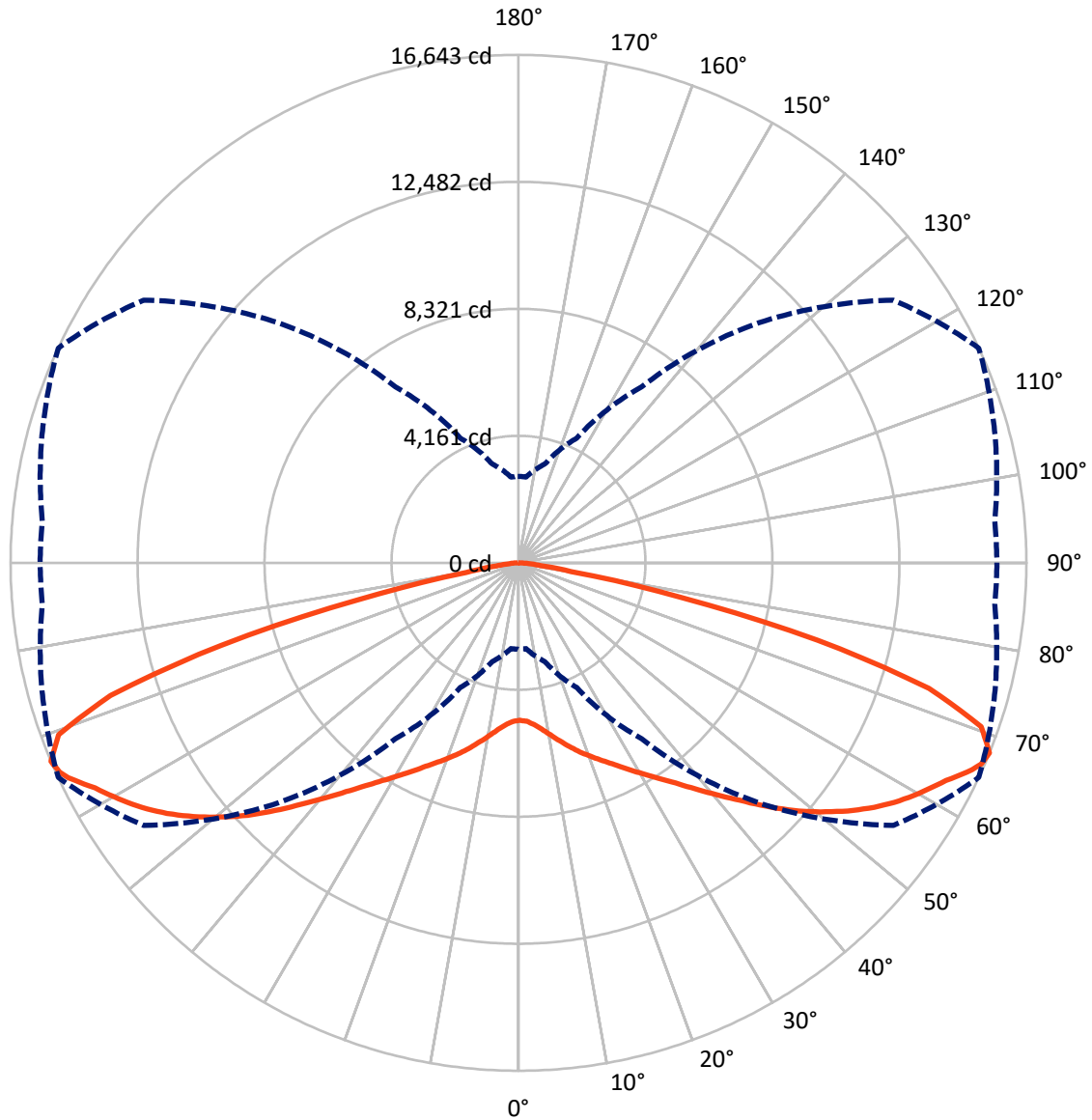
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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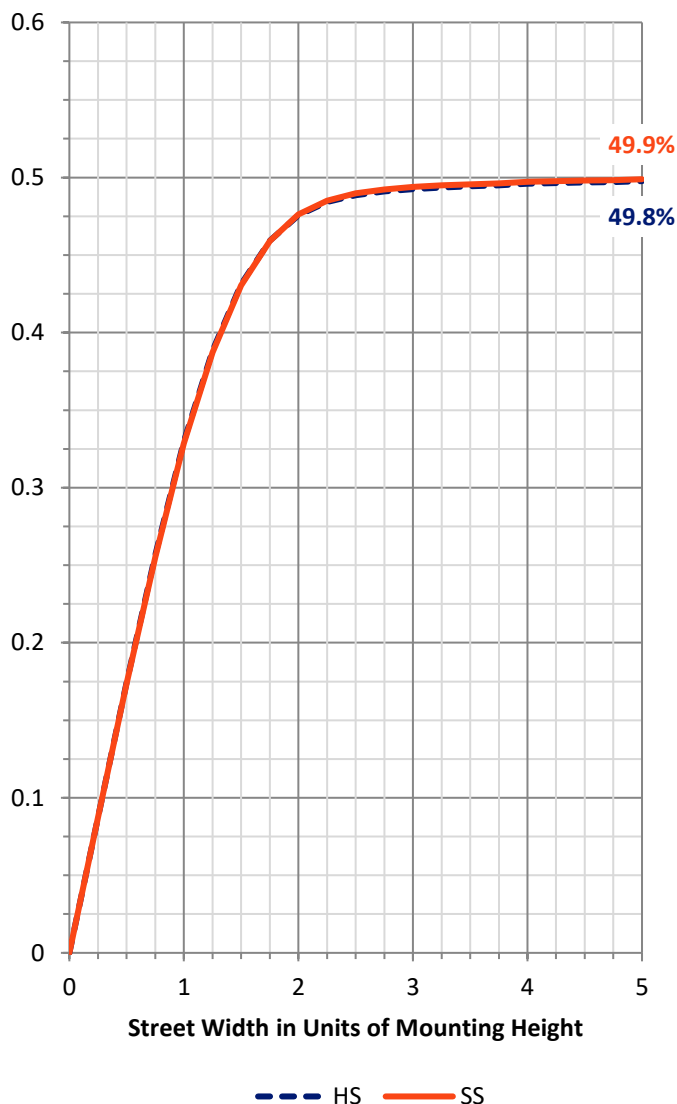
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24629.9	0.0	24629.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24629.9	0.0	24629.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	49259.9	0.0	49259.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	508.9	1.0
10°-20°	1703.1	3.5
20°-30°	3331.5	6.8
30°-40°	5666.4	11.5
40°-50°	8968.2	18.2
50°-60°	11891.6	24.1
60°-70°	11217.5	22.8
70°-80°	5545.4	11.3
80°-90°	427.4	0.9
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°	49259.9	100.0
0°-180°	49259.9	100.0

Coefficient of Utilization



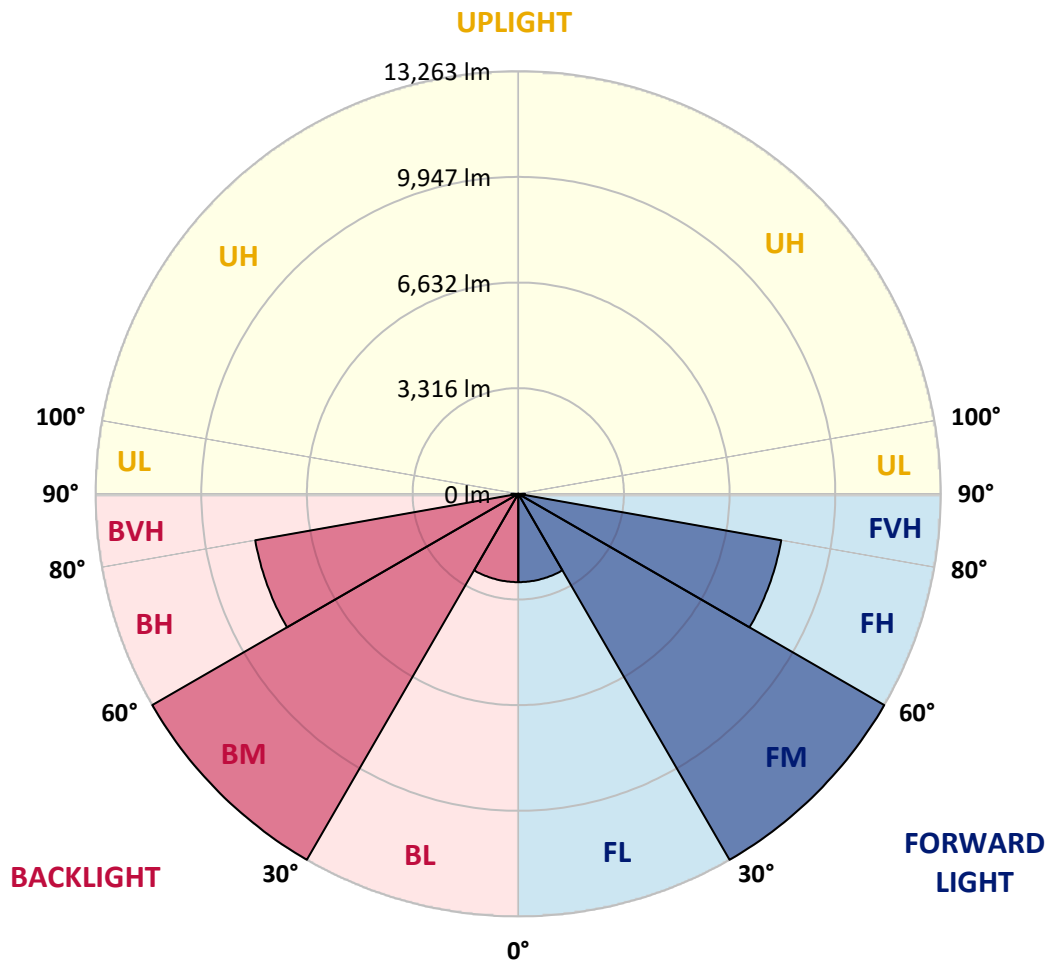
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2771.7	5.6			
FM (30°-60°)	13263.1	26.9			
FH (60°-80°)	8381.4	17.0			G4/12000
FVH (80°-90°)	213.7	0.4			G2/225
BL (0°-30°)	2771.7	5.6	B4/5000		
BM (30°-60°)	13263.1	26.9	B5		
BH (60°-80°)	8381.4	17.0	B5		G5
BVH (80°-90°)	213.7	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5159.5	5159.5	5159.5	5159.5	5159.5	5159.5	5159.5	5159.5	5159.5	5159.5	5159.5
2.5°	5133.1	5138.4	5143.7	5151.6	5162.1	5178.0	5188.5	5196.5	5217.6	5220.3	5217.6
5°	5114.7	5119.9	5133.1	5156.9	5191.2	5238.7	5275.7	5320.5	5354.8	5378.6	5373.3
7.5°	5112.0	5122.6	5143.7	5193.8	5259.9	5341.6	5426.1	5502.7	5568.6	5621.4	5613.5
10°	5154.2	5167.4	5201.8	5275.7	5378.6	5497.4	5616.1	5729.6	5824.6	5893.2	5916.9
12.5°	5225.6	5236.1	5299.4	5410.2	5558.1	5705.8	5840.4	5980.4	6112.3	6228.4	6228.4
15°	5349.5	5368.0	5447.2	5608.2	5790.3	5961.8	6099.1	6246.9	6389.4	6521.4	6560.9
17.5°	5521.1	5547.5	5666.2	5872.1	6104.3	6262.7	6392.0	6513.5	6637.4	6764.2	6782.6
20°	5756.0	5782.4	5940.7	6188.8	6463.3	6653.3	6740.4	6769.5	6830.1	6951.5	6967.3
22.5°	6075.3	6101.7	6278.6	6558.3	6864.4	7070.3	7107.2	7038.6	7022.8	7117.8	7128.3
25°	6436.9	6460.6	6663.8	6964.7	7281.4	7505.8	7495.2	7326.3	7231.3	7289.4	7305.2
27.5°	6843.3	6877.6	7083.5	7394.9	7738.0	7935.9	7904.2	7658.8	7455.6	7445.0	7450.3
30°	7363.2	7400.2	7595.5	7893.7	8231.5	8413.6	8347.6	8017.8	7703.6	7598.1	7598.1
32.5°	7912.2	8004.6	8202.4	8513.9	8777.9	8909.8	8809.5	8413.6	7996.6	7848.8	7840.9
35°	8627.4	8677.5	8872.8	9176.3	9374.3	9477.2	9284.6	8859.6	8379.3	8205.1	8181.3
37.5°	9326.8	9369.0	9596.0	9886.3	10126.4	10121.2	9859.9	9390.1	8854.4	8659.0	8643.2
40°	10042.0	10086.9	10345.5	10612.0	10852.2	10831.1	10514.4	9989.1	9419.1	9200.1	9242.3
42.5°	10662.2	10712.3	11005.2	11385.3	11601.7	11596.5	11229.6	10638.4	10044.6	9849.3	9886.3
45°	11226.9	11271.8	11612.3	12047.7	12364.4	12404.0	12002.8	11377.4	10767.7	10517.0	10527.6
47.5°	11625.5	11709.9	12066.2	12565.0	12995.2	13135.1	12741.8	12129.6	11427.5	11166.2	11182.1
50°	11929.0	11981.7	12369.7	12937.1	13480.8	13771.1	13454.4	12826.3	12087.3	11810.2	11847.2
52.5°	11965.9	12029.2	12451.5	13106.1	13802.7	14243.5	14087.8	13507.1	12760.3	12475.2	12554.4
55°	11665.0	11702.0	12206.1	13000.4	13929.4	14594.5	14634.1	14140.6	13401.6	13185.2	13238.0
57.5°	10807.4	10902.3	11541.0	12506.9	13755.2	14781.9	15043.1	14715.9	14050.8	13837.1	13921.5
60°	9400.6	9495.6	10137.0	11361.6	13098.1	14694.8	15381.0	15225.3	14639.4	14467.8	14512.7
62.5°	7365.9	7358.0	8152.3	9654.0	11791.7	14267.2	15631.7	15716.1	15220.0	15003.6	15072.1
65°	4774.2	4798.0	5566.0	7183.7	9820.3	13179.9	15687.1	16341.6	15790.0	15462.8	15512.9
66°	3840.0	3911.2	4563.1	6054.2	8814.8	12467.3	15520.8	16526.3	15964.2	15568.3	15592.1
67.5°	2834.4	2821.2	3357.0	4507.7	7038.6	11113.5	15000.9	16642.5	16162.2	15663.4	15673.9
70°	1617.8	1615.1	1805.2	2475.5	4138.2	7825.1	12644.2	16085.6	16563.3	16006.4	15977.4
72.5°	1182.4	1174.5	1200.8	1367.0	2019.0	3950.8	8722.4	14058.7	16357.4	15951.0	15869.2
75°	992.3	987.1	981.8	1002.9	1132.2	1789.3	4629.0	10113.2	14193.4	14971.9	14887.5
77.5°	810.2	810.2	812.8	807.6	812.8	942.2	1918.7	5420.8	8643.2	9648.7	9883.6
80°	633.4	630.8	675.7	657.2	614.9	604.3	849.8	1744.5	2868.7	2852.9	2354.1
82.5°	467.1	435.5	514.6	501.4	454.0	385.3	496.2	744.2	958.0	622.8	461.9
85°	295.6	292.9	364.2	332.5	277.1	182.1	237.5	319.3	395.9	240.2	195.3
87.5°	52.8	50.1	116.1	84.4	84.4	52.8	66.0	87.1	129.3	89.7	66.0
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)