

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: P532824

Luminaire Tested: **GALN-SA8B-727-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532824
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-727-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 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: 33918 lumens
Efficiency: N/A
Efficacy: 104.4 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

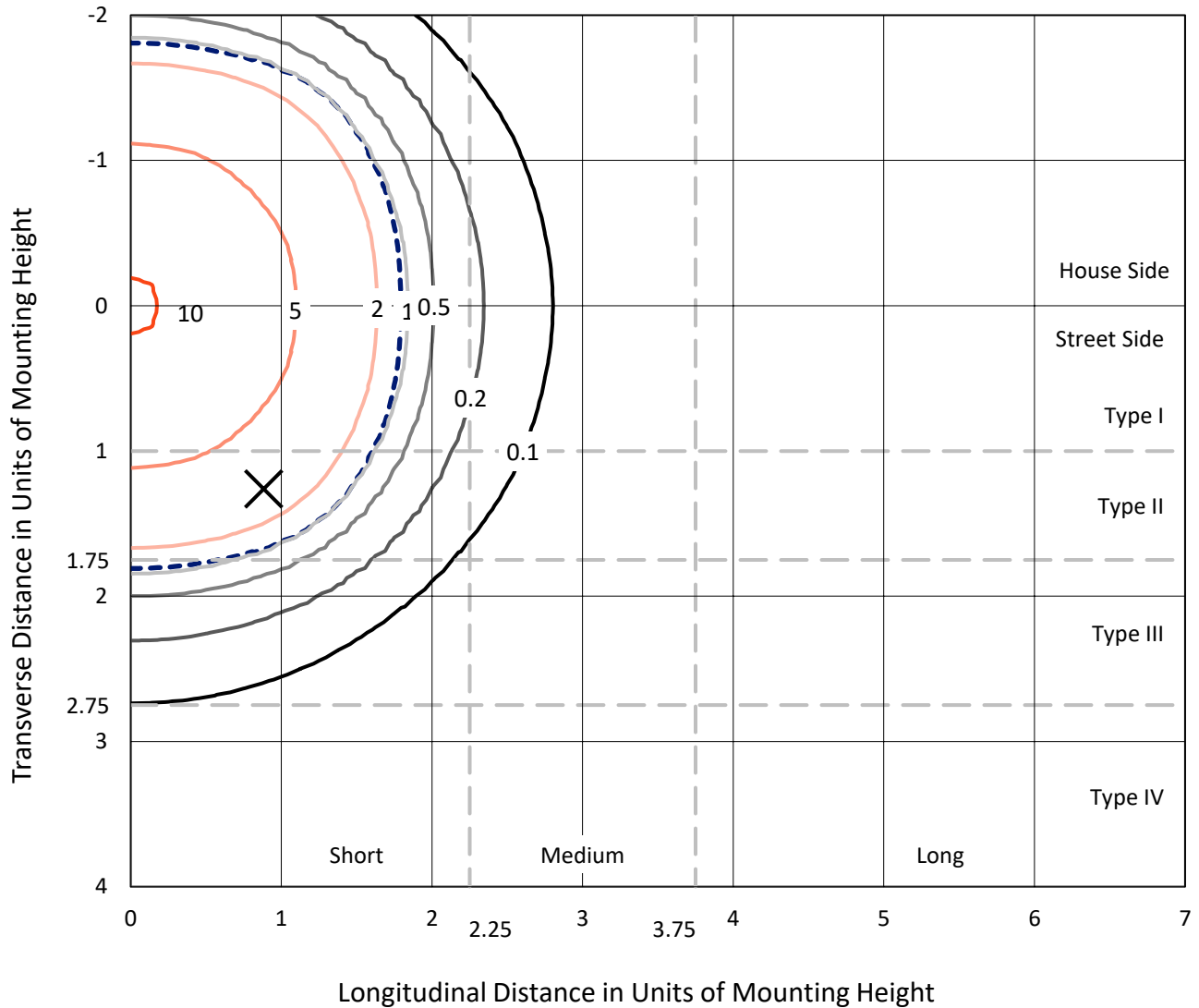
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

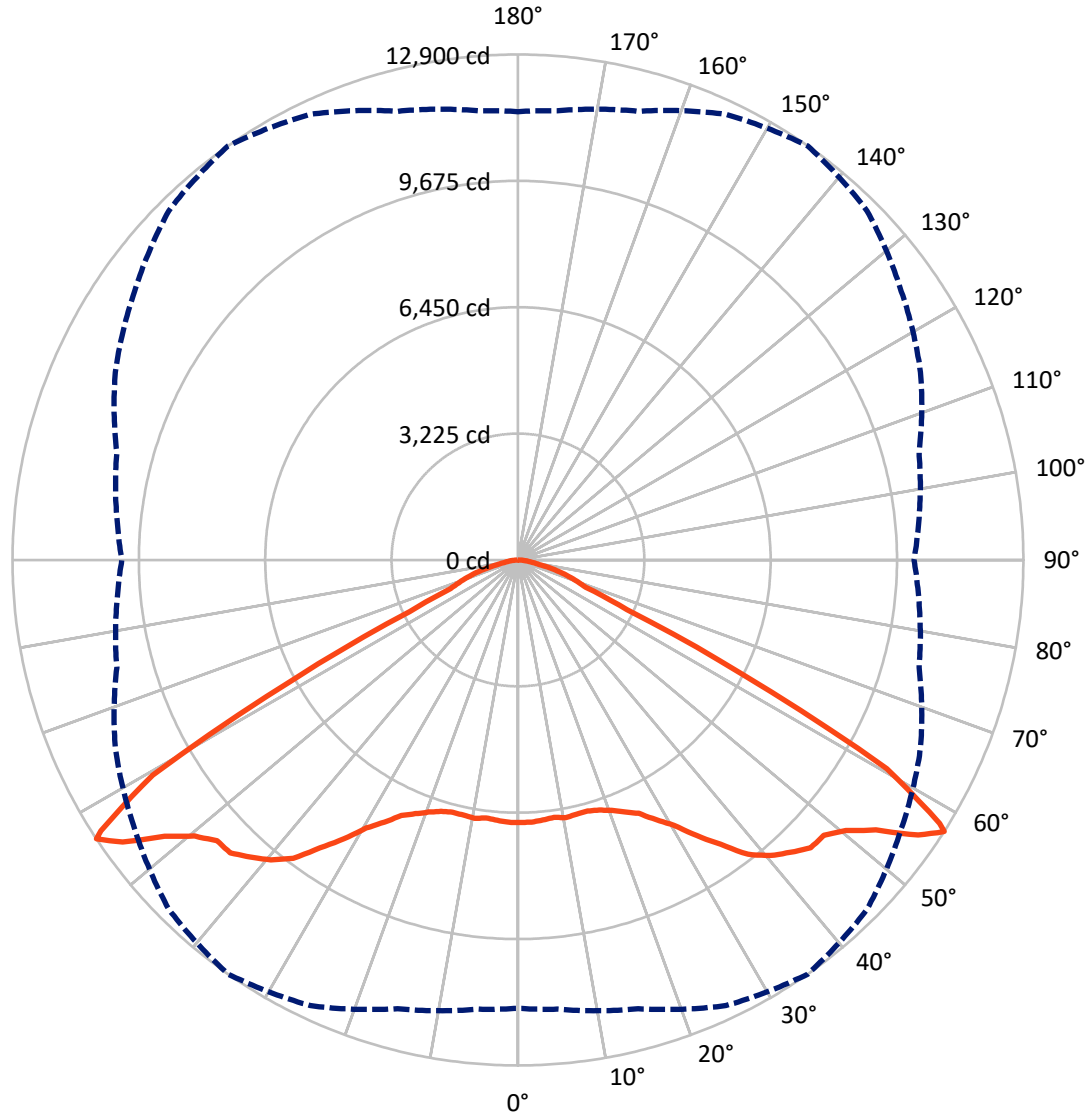
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 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	16959.0	0.0	16959.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16959.0	0.0	16959.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	33918.0	0.0	33918.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	635.0	1.9
10°-20°	1880.8	5.5
20°-30°	3284.8	9.7
30°-40°	5382.3	15.9
40°-50°	7891.8	23.3
50°-60°	9940.3	29.3
60°-70°	3738.4	11.0
70°-80°	994.0	2.9
80°-90°	170.4	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°	33918.0	100.0
0°-180°	33918.0	100.0

Coefficient of Utilization



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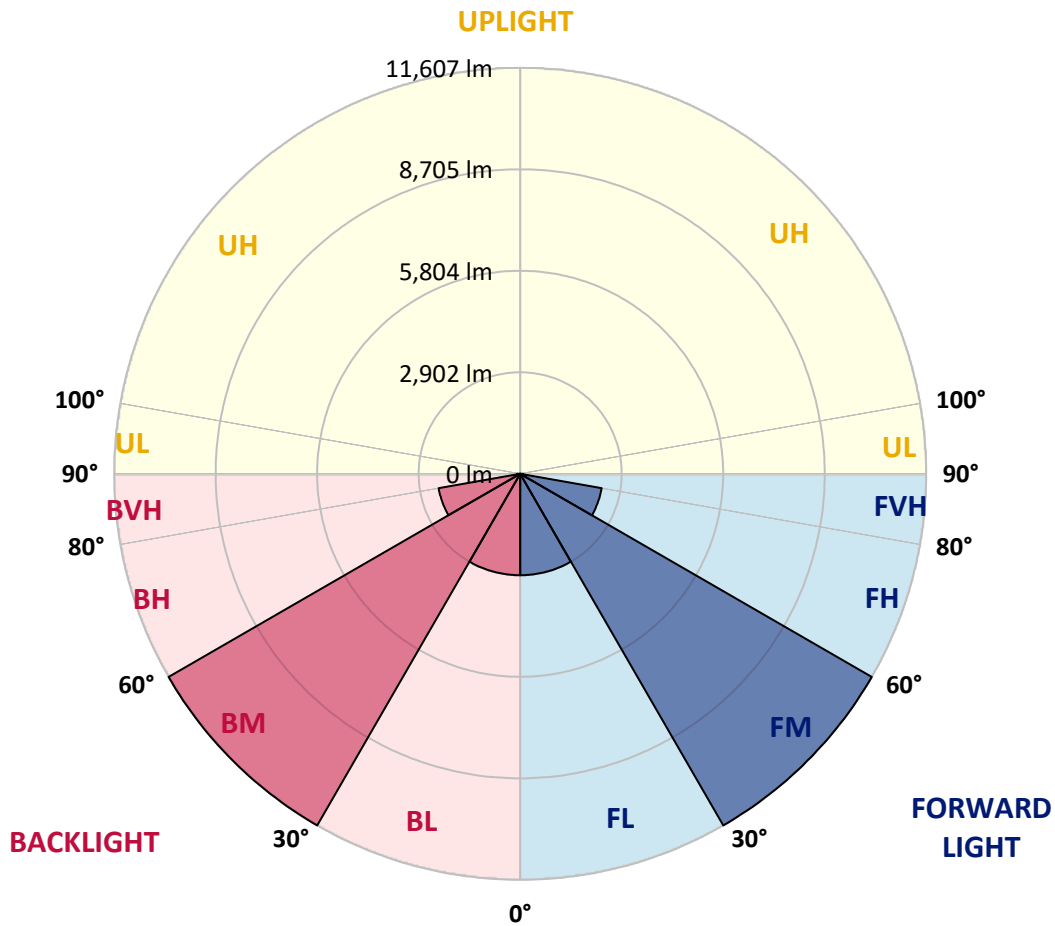
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2900.4	8.6			
FM (30°-60°)	11607.2	34.2			
FH (60°-80°)	2366.2	7.0			G2/5000
FVH (80°-90°)	85.2	0.3			G1/100
BL (0°-30°)	2900.4	8.6	B4/5000		
BM (30°-60°)	11607.2	34.2	B5		
BH (60°-80°)	2366.2	7.0	B3/2500		G2/5000
BVH (80°-90°)	85.2	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°	6698.6	6698.6	6698.6	6698.6	6698.6	6698.6	6698.6	6698.6	6698.6	6698.6	6698.6
2.5°	6665.1	6732.0	6702.7	6686.0	6698.6	6677.7	6644.2	6681.8	6673.5	6640.1	6627.5
5°	6648.4	6698.6	6665.1	6698.6	6665.1	6723.6	6706.9	6644.2	6719.4	6648.4	6673.5
7.5°	6635.9	6652.6	6660.9	6644.2	6631.7	6702.7	6665.1	6635.9	6594.1	6581.5	6602.4
10°	6606.6	6648.4	6585.7	6669.3	6686.0	6635.9	6635.9	6581.5	6548.1	6527.2	6598.3
12.5°	6681.8	6610.8	6602.4	6644.2	6656.8	6677.7	6619.2	6589.9	6527.2	6535.6	6523.0
15°	6594.1	6623.3	6627.5	6635.9	6648.4	6698.6	6644.2	6581.5	6556.5	6468.7	6477.1
17.5°	6627.5	6598.3	6627.5	6723.6	6706.9	6744.5	6686.0	6589.9	6531.4	6481.3	6548.1
20°	6686.0	6673.5	6686.0	6803.0	6823.9	6857.3	6807.2	6719.4	6606.6	6548.1	6581.5
22.5°	6748.7	6740.3	6748.7	6861.5	6982.7	7024.5	6974.4	6769.6	6711.1	6602.4	6564.8
25°	6861.5	6869.9	6957.6	7083.0	7162.4	7241.8	7149.9	7003.6	6815.6	6748.7	6669.3
27.5°	7112.3	7133.1	7183.3	7367.2	7505.1	7576.1	7446.6	7246.0	7129.0	6991.1	6970.2
30°	7421.5	7421.5	7509.2	7668.0	7856.1	7964.7	7805.9	7567.7	7425.7	7350.4	7304.5
32.5°	7831.0	7785.0	7818.5	8098.4	8391.0	8482.9	8269.8	7977.3	7751.6	7651.3	7617.9
35°	8182.0	8211.3	8286.5	8587.4	8913.3	9126.4	8792.1	8411.8	8182.0	8090.1	8073.4
37.5°	8637.5	8687.6	8725.3	9139.0	9531.8	9611.2	9289.4	8984.3	8704.4	8629.1	8587.4
40°	9281.0	9247.6	9260.1	9565.2	9920.4	9970.5	9652.9	9435.6	9205.8	9159.8	9159.8
42.5°	9811.7	9774.1	9815.9	9928.7	10200.4	10162.7	9987.2	9828.4	9732.3	9682.2	9732.3
45°	10133.5	10125.1	10200.4	10283.9	10476.2	10350.8	10212.9	10238.0	10146.0	10062.5	10058.3
47.5°	10484.5	10430.2	10522.1	10647.5	10501.2	10442.7	10434.4	10488.7	10459.4	10313.2	10267.2
50°	10655.8	10634.9	10781.2	10927.5	10848.1	10714.3	10743.6	10831.4	10455.3	10258.9	10146.0
52.5°	11115.5	11119.7	11399.7	11479.1	11445.6	11249.2	11311.9	11073.7	10630.8	10355.0	10367.5
55°	11838.4	11809.2	12122.6	12356.6	12394.2	12143.5	11842.6	11508.3	10952.5	10672.6	10589.0
57°	11441.4	11508.3	11855.1	12548.8	12899.8	12603.1	11947.1	11337.0	10597.3	10258.9	10108.4
57.5°	10910.7	11019.4	11621.1	12319.0	12686.7	12661.6	11817.5	11019.4	10359.2	9832.6	9845.2
60°	7994.0	8014.9	8558.1	9665.5	10814.6	10839.7	9811.7	8754.5	8019.0	7446.6	7525.9
62.5°	4216.4	4312.5	4529.8	5419.9	6414.4	6656.8	6034.1	5490.9	4855.7	4421.1	4462.9
65°	2231.5	2218.9	2323.4	2574.1	3063.0	3188.4	3104.8	2674.4	2452.9	2381.9	2386.1
67.5°	1813.6	1834.5	1821.9	1834.5	1867.9	1922.2	1909.7	1926.4	1938.9	1959.8	1955.7
70°	1537.8	1537.8	1546.1	1550.3	1550.3	1575.4	1604.6	1659.0	1663.1	1684.0	1692.4
72.5°	1211.8	1203.5	1216.0	1245.3	1249.4	1270.3	1312.1	1345.6	1358.1	1358.1	1333.0
75°	823.2	831.6	848.3	873.4	898.4	936.0	969.5	990.4	998.7	986.2	973.7
77.5°	463.8	472.2	484.7	522.3	551.6	585.0	622.6	643.5	664.4	668.6	643.5
80°	275.8	275.8	296.7	325.9	359.4	392.8	426.2	451.3	459.7	459.7	447.1
82.5°	167.2	171.3	188.0	217.3	246.5	267.4	296.7	317.6	334.3	330.1	321.8
85°	87.8	87.8	104.5	129.5	150.4	171.3	171.3	158.8	150.4	129.5	121.2
87.5°	29.3	25.1	33.4	33.4	29.3	33.4	33.4	37.6	37.6	37.6	37.6
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)