

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: P456976

Luminaire Tested: **GALN-SA8B-740-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456976
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-740-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48191 lumens
Efficiency: N/A
Efficacy: 148.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

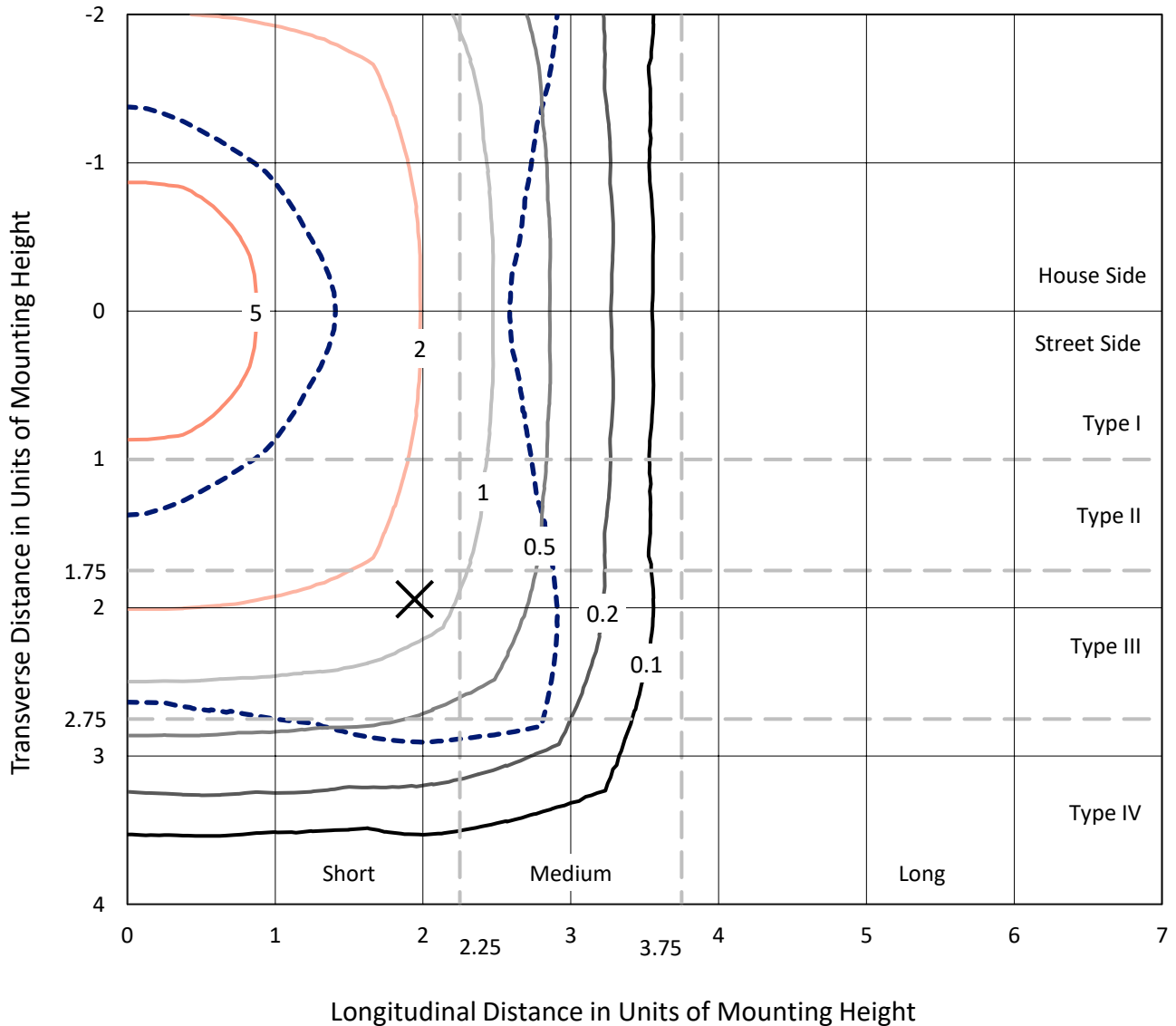
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

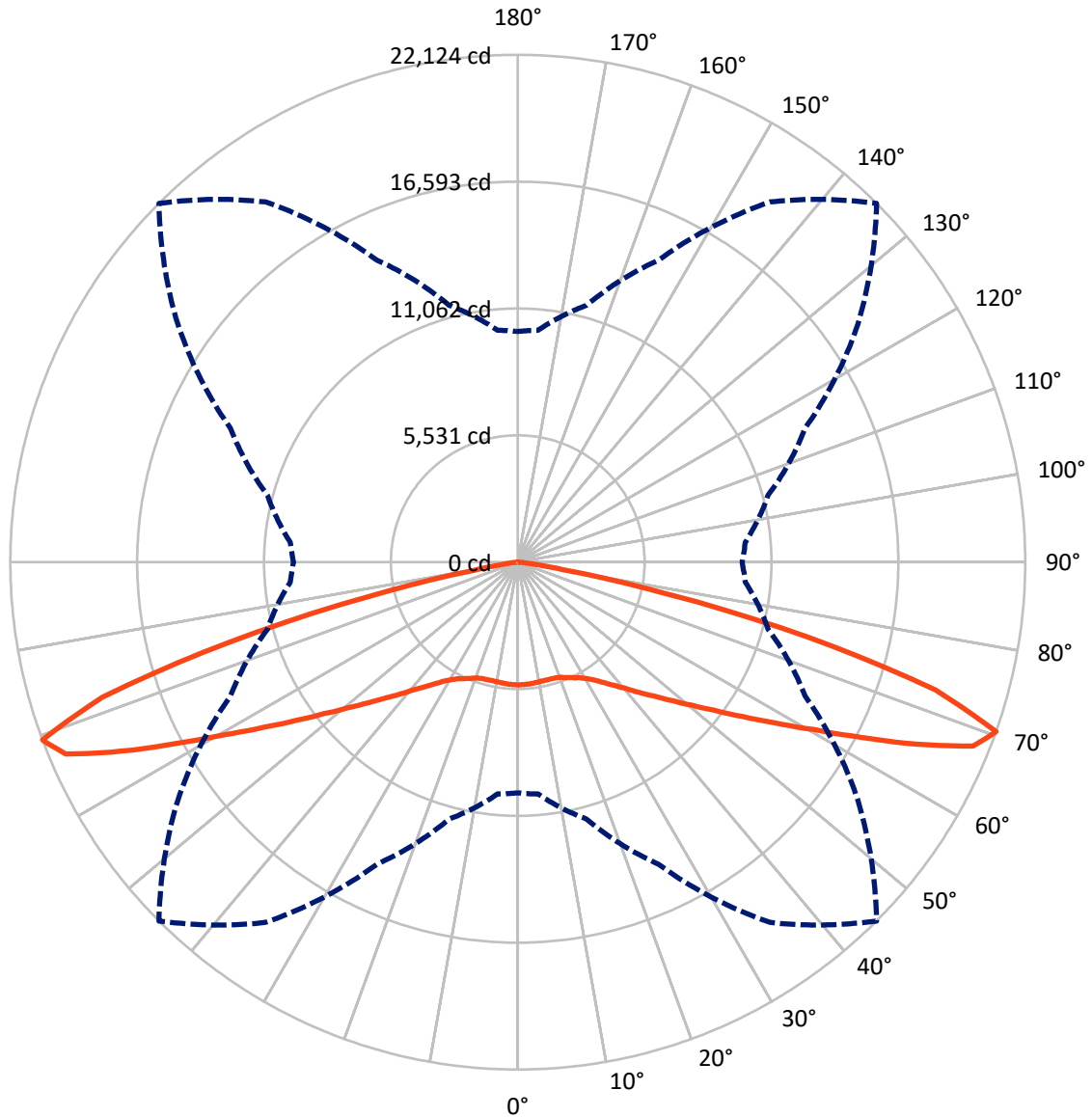
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24095.5	0.0	24095.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24095.5	0.0	24095.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	48191.0	0.0	48191.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	507.5	1.1
10°-20°	1489.1	3.1
20°-30°	2546.8	5.3
30°-40°	4042.4	8.4
40°-50°	6521.5	13.5
50°-60°	10610.5	22.0
60°-70°	15381.4	31.9
70°-80°	6822.7	14.2
80°-90°	269.1	0.6
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°	48191.0	100.0
0°-180°	48191.0	100.0

Coefficient of Utilization



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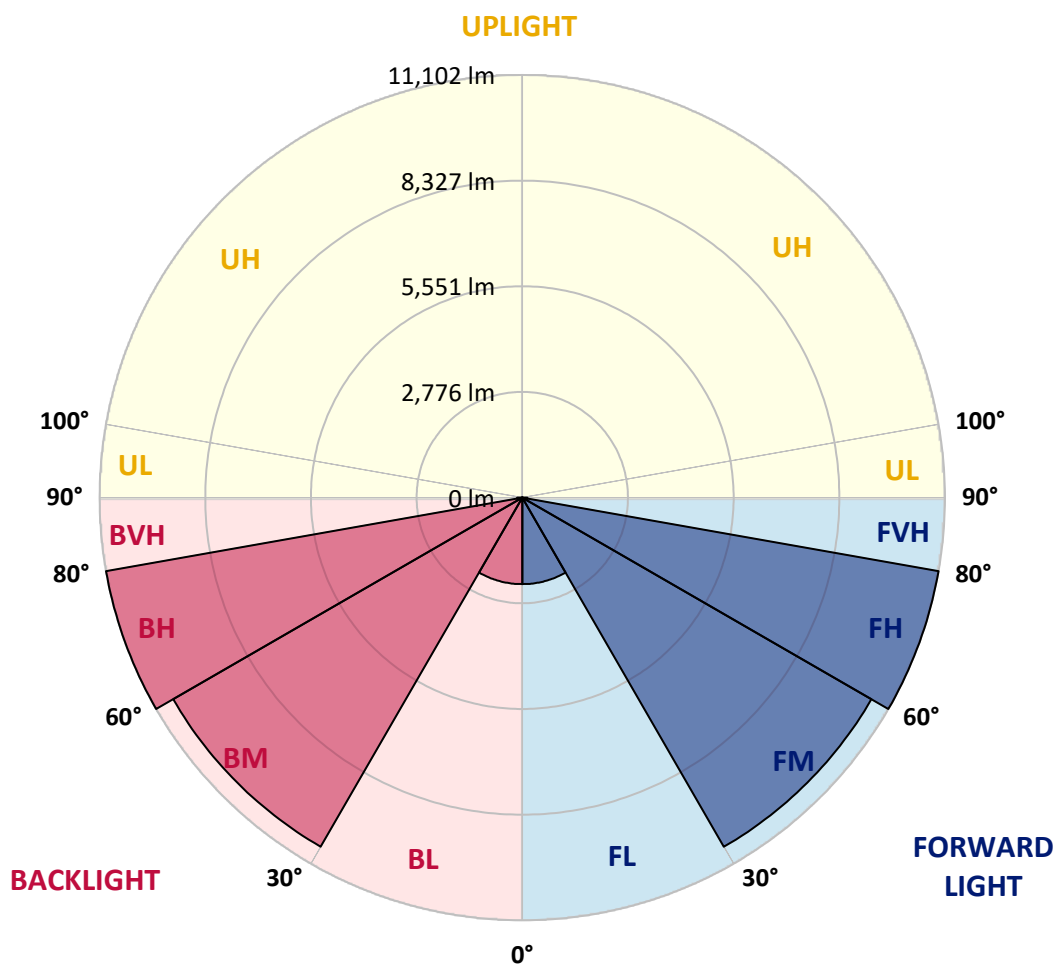
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2271.7	4.7			
FM	(30°-60°)	10587.2	22.0			
FH	(60°-80°)	11102.1	23.0			G4/12000
FVH	(80°-90°)	134.5	0.3			G2/225
BL	(0°-30°)	2271.7	4.7	B3/2500		
BM	(30°-60°)	10587.2	22.0	B5		
BH	(60°-80°)	11102.1	23.0	B5		G4/12000
BVH	(80°-90°)	134.5	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-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5351.4	5351.4	5351.4	5351.4	5351.4	5351.4	5351.4	5351.4	5351.4	5351.4	5351.4
2.5°	5351.4	5356.5	5348.8	5343.8	5341.2	5341.2	5338.7	5341.2	5356.5	5359.0	5351.4
5°	5336.1	5341.2	5338.7	5333.6	5331.1	5331.1	5328.5	5326.0	5338.7	5343.8	5341.2
7.5°	5315.8	5318.4	5315.8	5313.3	5315.8	5313.3	5305.7	5300.6	5310.7	5310.7	5308.2
10°	5280.3	5285.3	5282.8	5285.3	5290.4	5290.4	5280.3	5270.1	5272.6	5267.6	5267.6
12.5°	5237.1	5244.7	5247.3	5257.4	5270.1	5285.3	5262.5	5239.6	5234.6	5232.0	5229.5
15°	5209.2	5216.8	5226.9	5237.1	5260.0	5293.0	5260.0	5224.4	5214.2	5204.1	5199.0
17.5°	5201.5	5211.7	5226.9	5242.2	5272.6	5305.7	5277.7	5242.2	5216.8	5201.5	5196.5
20°	5221.9	5229.5	5252.3	5280.3	5323.4	5356.5	5328.5	5290.4	5252.3	5229.5	5221.9
22.5°	5262.5	5275.2	5303.1	5353.9	5414.9	5463.1	5425.0	5361.5	5300.6	5270.1	5260.0
25°	5351.4	5361.5	5394.6	5463.1	5534.2	5580.0	5539.3	5465.7	5381.9	5341.2	5328.5
27.5°	5486.0	5501.2	5536.8	5618.1	5676.5	5701.9	5673.9	5623.1	5562.2	5519.0	5508.9
30°	5676.5	5694.3	5747.6	5833.9	5872.0	5887.3	5874.6	5841.6	5798.4	5752.7	5742.5
32.5°	5933.0	5943.2	6004.1	6085.4	6120.9	6126.0	6110.8	6095.5	6024.4	5948.2	5943.2
35°	6220.0	6237.8	6311.4	6407.9	6441.0	6443.5	6413.0	6390.2	6306.4	6245.4	6245.4
37.5°	6601.0	6608.6	6679.7	6788.9	6824.5	6814.3	6799.1	6778.8	6689.9	6611.1	6613.7
40°	7048.0	7063.2	7124.2	7251.2	7251.2	7238.5	7248.6	7233.4	7144.5	7068.3	7070.8
42.5°	7578.8	7586.4	7660.1	7794.7	7784.5	7759.1	7769.3	7749.0	7693.1	7606.7	7576.3
45°	8145.2	8175.7	8302.6	8432.2	8411.9	8330.6	8371.2	8366.1	8315.3	8185.8	8193.4
47.5°	8828.4	8879.2	9001.1	9156.0	9133.2	9006.2	9051.9	9082.4	9011.3	8869.0	8843.6
50°	9597.9	9631.0	9811.3	9956.1	9935.7	9801.1	9905.3	9910.3	9732.6	9531.9	9531.9
52.5°	10418.3	10451.3	10695.1	10921.2	10933.9	10738.3	10822.1	10817.1	10527.5	10263.4	10212.6
55°	11337.7	11353.0	11667.9	12000.6	12071.7	11881.2	11891.4	11789.8	11413.9	11106.6	11078.7
57.5°	12287.6	12343.5	12691.4	13123.2	13334.0	13217.2	13163.8	12892.1	12528.9	12175.9	12158.1
60°	13339.1	13341.6	13793.7	14304.2	14730.9	14809.6	14591.2	14228.0	13758.2	13290.8	13270.5
62.5°	14068.0	14177.2	14748.7	15612.2	16376.7	16818.6	16242.1	15480.2	14555.7	13801.3	13725.1
65°	14217.9	14291.5	15162.7	16625.6	18187.6	19140.0	17806.6	16186.2	14609.0	13603.2	13552.4
67.5°	13006.4	13085.1	14258.5	16503.7	19457.5	21410.6	18822.5	15845.9	13704.8	12460.3	12361.3
70°	10060.2	10149.1	11599.3	14527.7	19175.6	22124.3	18098.7	13821.7	11302.2	9958.6	9778.3
72.5°	5348.8	5676.5	6915.9	9971.3	15564.0	19048.6	14840.1	10085.6	7289.3	5958.4	5719.7
75°	1953.1	1993.8	2684.6	4421.8	9054.4	13062.3	9402.4	4810.4	2765.9	2136.0	2026.8
77.5°	807.7	805.1	883.9	1335.9	3289.1	6689.9	3670.0	1412.1	881.3	815.3	805.1
80°	477.5	477.5	525.7	556.2	866.1	2019.2	967.7	629.9	528.3	482.6	490.2
82.5°	213.3	226.0	332.7	350.5	419.1	553.7	467.3	401.3	345.4	238.7	215.9
85°	116.8	101.6	175.2	182.9	200.6	205.7	221.0	218.4	200.6	116.8	119.4
87.5°	22.9	27.9	50.8	38.1	43.2	38.1	50.8	71.1	73.7	40.6	33.0
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)