

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: P456992

Luminaire Tested: **GALN-SA8B-740-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456992
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)
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-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45867 lumens
Efficiency: N/A
Efficacy: 141.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

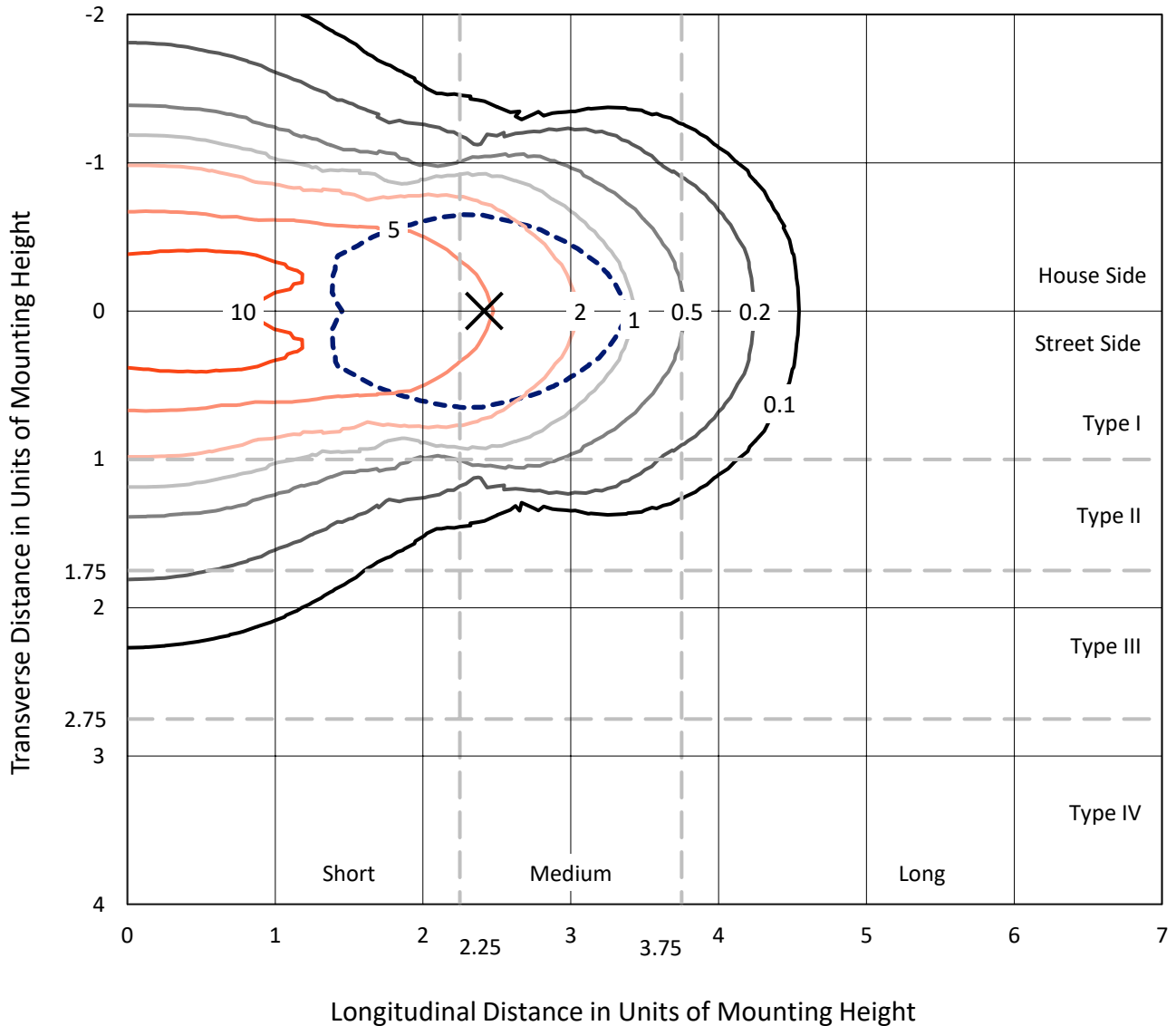
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

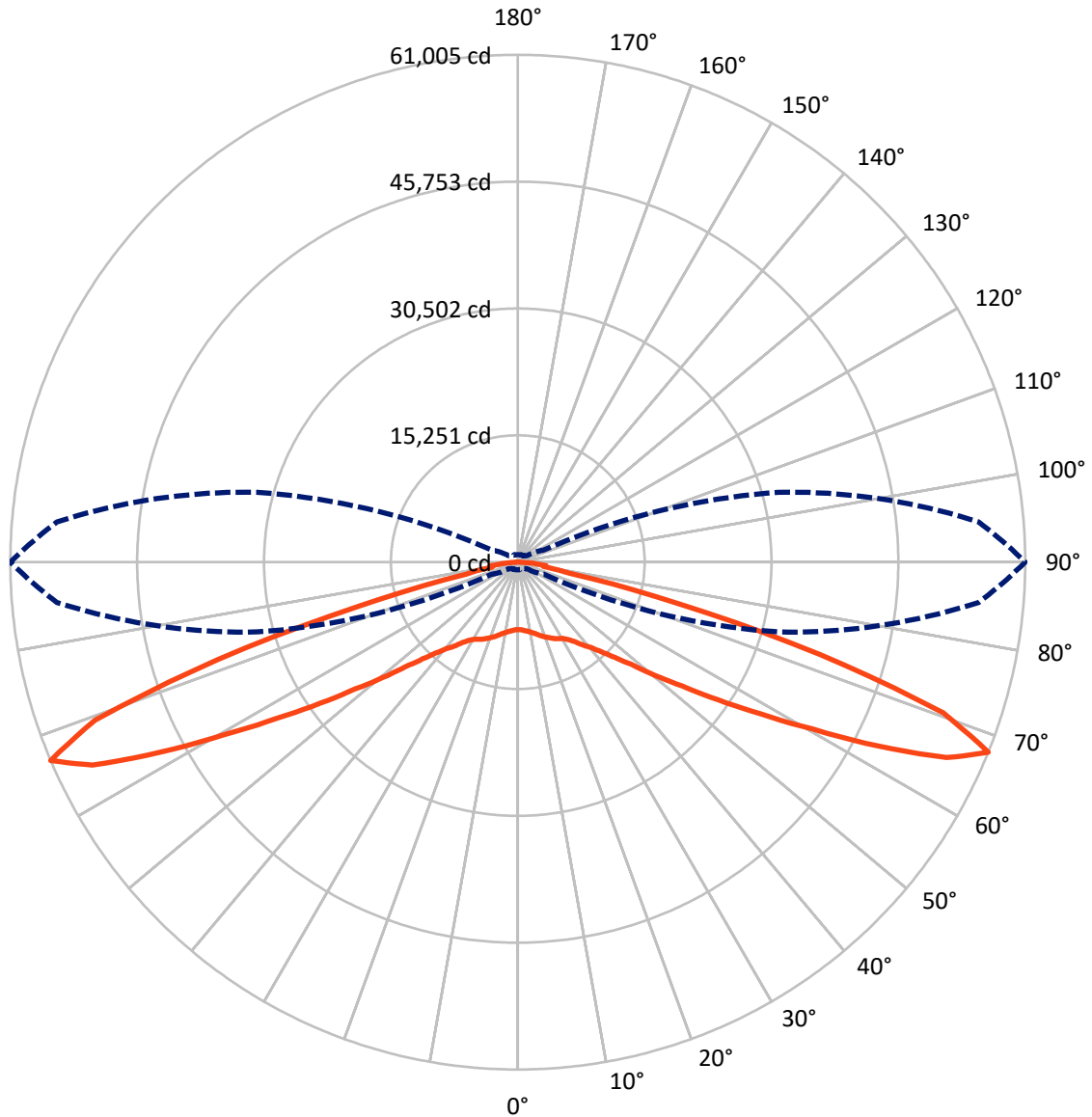
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22933.5	0.0	22933.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22933.5	0.0	22933.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	45867.0	0.0	45867.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	809.6	1.8
10°-20°	2590.1	5.6
20°-30°	4335.2	9.5
30°-40°	5873.1	12.8
40°-50°	7439.2	16.2
50°-60°	9293.4	20.3
60°-70°	10924.0	23.8
70°-80°	4178.9	9.1
80°-90°	423.4	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°	45867.0	100.0
0°-180°	45867.0	100.0



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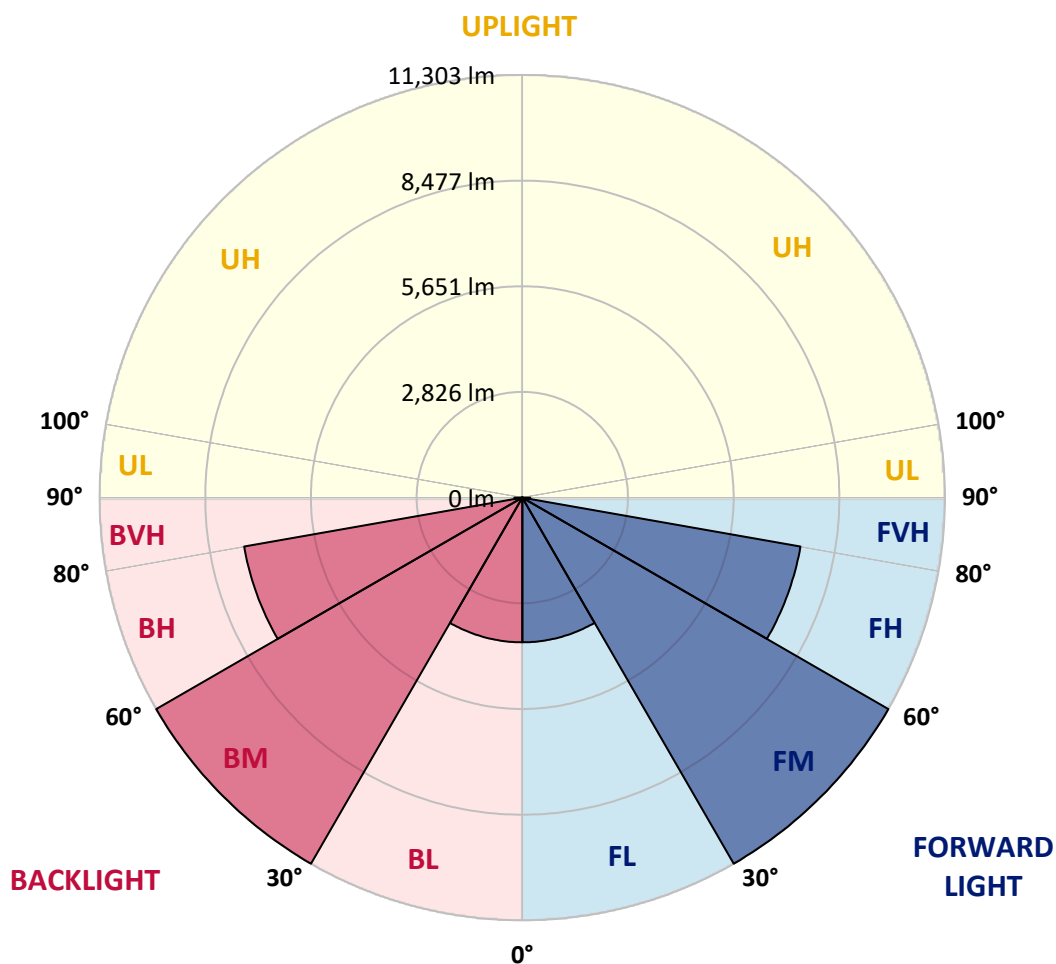
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3867.4	8.4			
FM	(30°-60°)	11302.9	24.6			
FH	(60°-80°)	7551.5	16.5			G4/12000
FVH	(80°-90°)	211.7	0.5			G2/225
BL	(0°-30°)	3867.4	8.4	B4/5000		
BM	(30°-60°)	11302.9	24.6	B5		
BH	(60°-80°)	7551.5	16.5	B5		G5
BVH	(80°-90°)	211.7	0.5			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 I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8119.9	8119.9	8119.9	8119.9	8119.9	8119.9	8119.9	8119.9	8119.9	8119.9	8119.9
2.5°	8224.0	8218.9	8221.5	8218.9	8226.6	8221.5	8191.0	8165.6	8145.3	8147.8	8140.2
5°	8399.3	8401.8	8404.3	8391.7	8409.4	8399.3	8351.0	8310.4	8269.7	8254.5	8249.4
7.5°	8544.0	8556.7	8564.4	8577.1	8607.5	8607.5	8582.1	8523.7	8434.8	8384.0	8381.5
10°	8688.8	8699.0	8721.8	8762.5	8813.3	8861.5	8851.4	8772.6	8658.3	8572.0	8551.7
12.5°	8739.6	8752.3	8828.5	8945.3	9059.6	9153.6	9153.6	9090.1	8942.8	8810.7	8772.6
15°	8561.8	8584.7	8721.8	8970.7	9270.4	9476.2	9521.9	9433.0	9275.5	9072.3	9026.6
17.5°	8208.8	8264.7	8465.3	8833.6	9331.4	9758.1	9890.2	9847.0	9643.8	9384.7	9331.4
20°	7830.3	7891.3	8104.6	8592.3	9280.6	9923.2	10306.7	10316.9	10065.4	9689.5	9610.8
22.5°	7413.8	7459.5	7733.8	8305.3	9128.2	9961.3	10664.8	10840.1	10499.7	9994.3	9882.5
25°	6946.5	6997.3	7284.3	7901.5	8841.2	9918.1	10992.5	11378.5	10954.4	10319.4	10177.2
27.5°	6499.5	6519.8	6827.1	7454.4	8462.8	9806.3	11233.7	11873.8	11457.2	10588.6	10408.3
30°	6070.2	6118.5	6390.3	7010.0	8028.5	9587.9	11442.0	12437.6	11998.2	10870.5	10639.4
32.5°	5615.6	5674.0	5968.6	6596.0	7594.1	9260.3	11569.0	13054.8	12752.6	11327.7	11081.3
35°	5178.7	5216.8	5514.0	6123.6	7170.0	8879.3	11591.9	13750.7	13725.3	12021.1	11693.5
37.5°	4731.7	4787.6	5087.3	5671.5	6720.4	8475.5	11477.6	14489.8	14898.7	12983.7	12630.7
40°	4302.5	4350.8	4645.4	5234.6	6209.9	7982.7	11205.8	15165.4	16267.7	13974.2	13473.9
42.5°	3835.2	3847.9	4170.4	4769.8	5709.6	7411.3	10814.7	15767.4	17794.2	15302.6	14680.3
45°	3304.3	3337.4	3637.1	4226.3	5135.6	6771.2	10283.8	16265.2	19729.5	17144.0	16295.7
47.5°	2773.5	2801.4	3075.8	3657.4	4508.2	6037.2	9466.0	16702.0	21715.7	19483.2	18370.7
50°	2255.4	2270.6	2494.1	3009.7	3802.1	5265.1	8452.6	16841.7	23960.9	22795.1	21375.3
52.5°	1783.0	1805.8	1976.0	2379.8	3047.8	4353.3	7357.9	16496.3	26582.0	26721.7	24720.3
55°	1445.2	1452.8	1579.8	1876.9	2382.4	3398.3	6037.2	15533.7	29401.3	31753.2	29200.6
57.5°	1244.5	1249.6	1320.7	1485.8	1833.8	2562.7	4683.5	13712.6	31933.5	37648.1	34366.7
60°	1130.2	1132.8	1173.4	1269.9	1452.8	1965.8	3355.1	11142.3	34432.7	44208.6	40787.4
62.5°	1059.1	1059.1	1087.1	1140.4	1229.3	1508.7	2430.6	8038.6	36144.5	50865.5	48701.5
65°	990.5	990.5	1010.9	1049.0	1097.2	1234.4	1795.7	5242.2	36101.4	55714.1	56661.4
67.5°	911.8	911.8	927.0	965.1	993.1	1061.7	1386.8	3433.9	32428.8	55607.4	61004.6
70°	817.8	817.8	838.1	871.2	894.0	937.2	1094.7	2349.4	23823.8	47479.9	54253.6
72.5°	723.9	726.4	739.1	772.1	789.9	815.3	909.3	1645.8	14614.3	32329.7	37935.1
75°	619.7	624.8	637.5	670.5	685.8	695.9	767.0	1173.4	7393.5	17431.0	19846.4
77.5°	500.3	510.5	518.1	553.7	563.8	579.1	632.4	848.3	3245.9	6263.3	6319.1
80°	365.7	378.4	401.3	434.3	441.9	452.1	482.6	601.9	1470.6	2859.9	3106.2
82.5°	269.2	287.0	259.1	302.2	302.2	289.5	340.3	403.8	675.6	2831.9	3388.2
85°	147.3	149.9	134.6	154.9	165.1	162.6	180.3	198.1	327.6	1889.6	1948.1
87.5°	35.6	38.1	40.6	48.3	58.4	58.4	63.5	55.9	106.7	612.1	350.5
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)