

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: P459283

Luminaire Tested: **GALN-SA7C-735-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459283
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-SA7C-735-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45536 lumens
Efficiency: N/A
Efficacy: 120.8 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

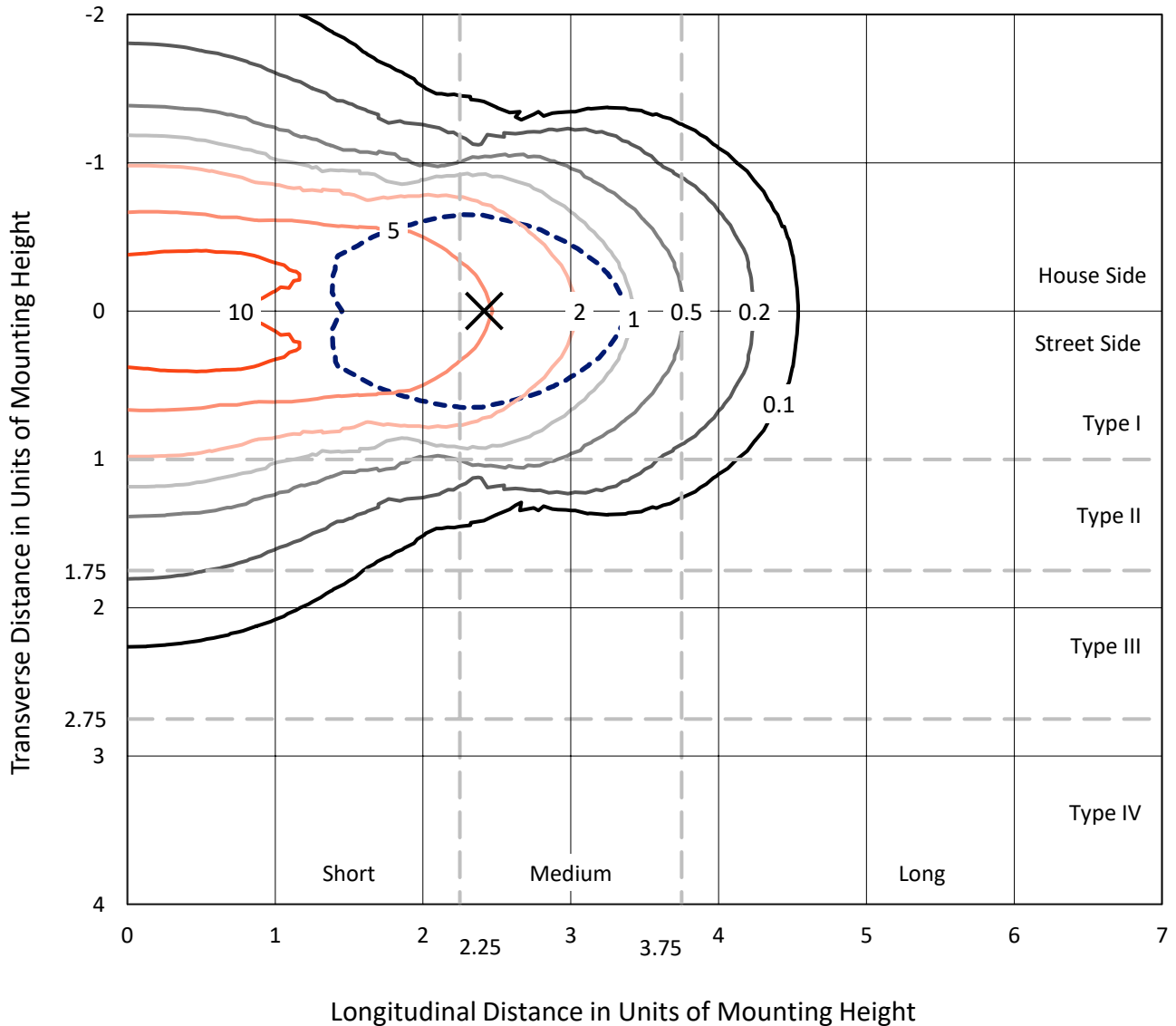
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

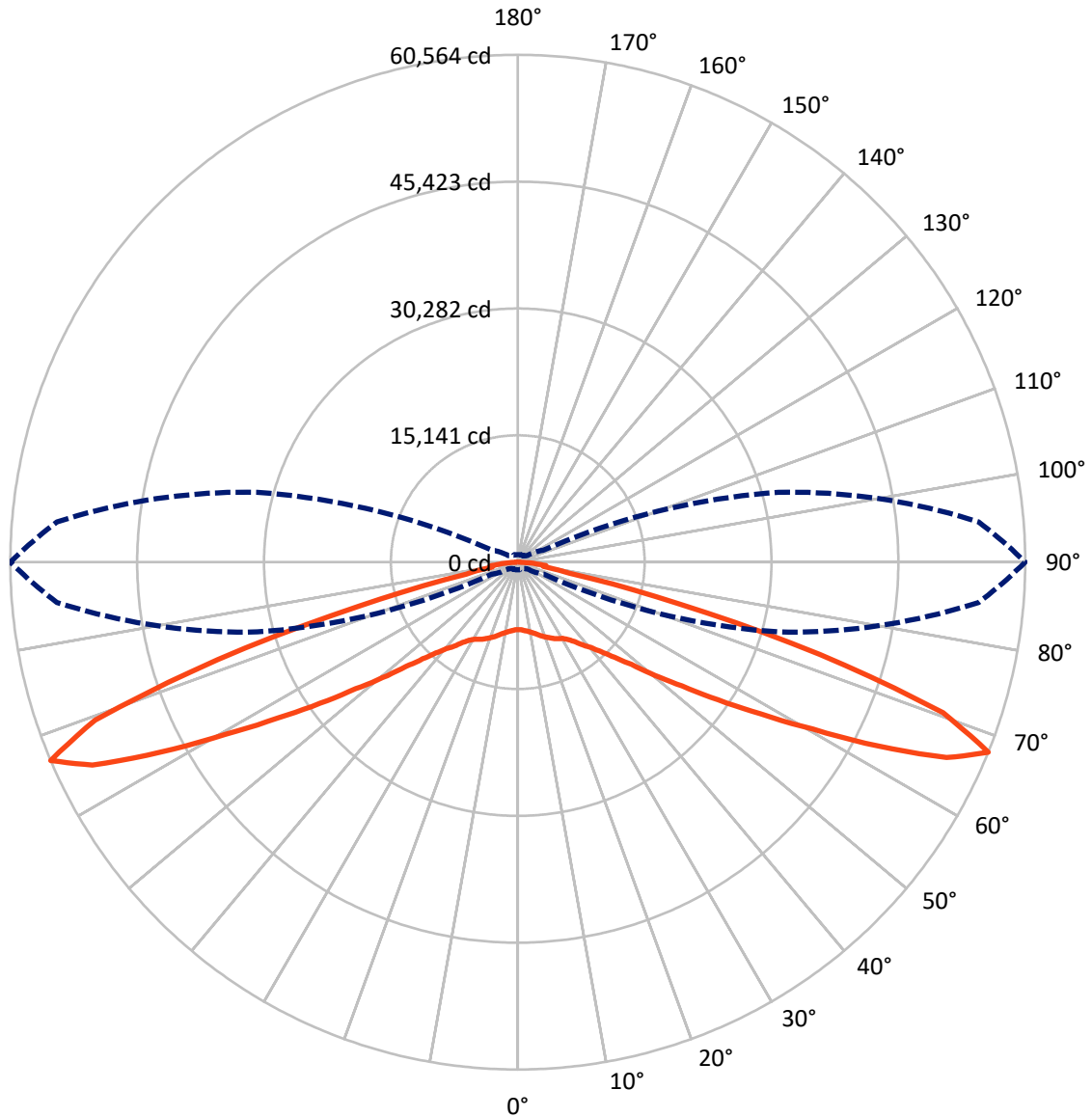
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 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	22768.0	0.0	22768.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22768.0	0.0	22768.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	45536.0	0.0	45536.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	803.7	1.8
10°-20°	2571.4	5.6
20°-30°	4303.9	9.5
30°-40°	5830.7	12.8
40°-50°	7385.5	16.2
50°-60°	9226.4	20.3
60°-70°	10845.2	23.8
70°-80°	4148.8	9.1
80°-90°	420.3	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°	45536.0	100.0
0°-180°	45536.0	100.0



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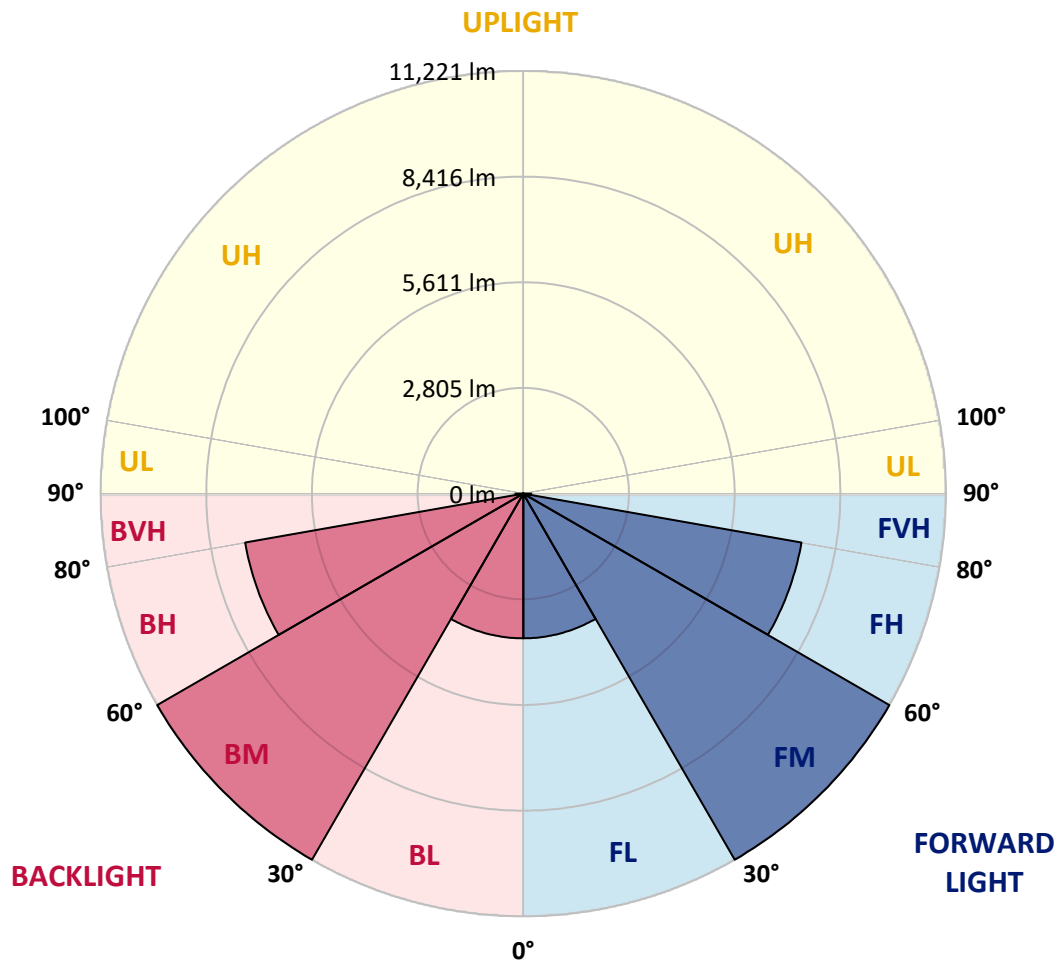
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3839.5	8.4			
FM	(30°-60°)	11221.3	24.6			
FH	(60°-80°)	7497.0	16.5			G3/7500
FVH	(80°-90°)	210.2	0.5			G2/225
BL	(0°-30°)	3839.5	8.4	B4/5000		
BM	(30°-60°)	11221.3	24.6	B5		
BH	(60°-80°)	7497.0	16.5	B5		G5
BVH	(80°-90°)	210.2	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°	8061.3	8061.3	8061.3	8061.3	8061.3	8061.3	8061.3	8061.3	8061.3	8061.3	8061.3
2.5°	8164.7	8159.6	8162.2	8159.6	8167.2	8162.2	8131.9	8106.7	8086.5	8089.0	8081.5
5°	8338.7	8341.2	8343.7	8331.1	8348.7	8338.7	8290.7	8250.4	8210.1	8194.9	8189.9
7.5°	8482.4	8495.0	8502.6	8515.2	8545.4	8545.4	8520.2	8462.2	8374.0	8323.5	8321.0
10°	8626.1	8636.2	8658.9	8699.2	8749.7	8797.6	8787.5	8709.3	8595.9	8510.1	8489.9
12.5°	8676.5	8689.1	8764.8	8880.8	8994.3	9087.5	9087.5	9024.5	8878.3	8747.1	8709.3
15°	8500.0	8522.7	8658.9	8906.0	9203.5	9407.8	9453.2	9364.9	9208.6	9006.9	8961.5
17.5°	8149.5	8205.0	8404.2	8769.8	9264.1	9687.7	9818.8	9775.9	9574.2	9317.0	9264.1
20°	7773.8	7834.4	8046.2	8530.3	9213.6	9851.6	10232.3	10242.4	9992.8	9619.6	9541.4
22.5°	7360.3	7405.7	7678.0	8245.4	9062.3	9889.4	10587.8	10761.8	10424.0	9922.2	9811.2
25°	6896.3	6946.8	7231.7	7844.4	8777.4	9846.5	10913.1	11296.4	10875.3	10244.9	10103.7
27.5°	6452.6	6472.7	6777.8	7400.7	8401.7	9735.6	11152.7	11788.1	11374.6	10512.2	10333.2
30°	6026.4	6074.3	6344.1	6959.4	7970.5	9518.7	11359.4	12347.9	11911.6	10792.1	10562.6
32.5°	5575.1	5633.1	5925.6	6548.4	7539.3	9193.5	11485.5	12960.6	12660.5	11246.0	11001.4
35°	5141.4	5179.2	5474.2	6079.4	7118.2	8815.2	11508.2	13651.5	13626.3	11934.3	11609.1
37.5°	4697.6	4753.1	5050.6	5630.5	6671.9	8414.3	11394.7	14385.3	14791.2	12890.0	12539.5
40°	4271.4	4319.4	4611.9	5196.8	6165.1	7925.1	11124.9	15056.0	16150.3	13873.4	13376.6
42.5°	3807.5	3820.1	4140.3	4735.4	5668.4	7357.8	10736.6	15653.6	17665.7	15192.1	14574.4
45°	3280.5	3313.3	3610.8	4195.8	5098.5	6722.4	10209.6	16147.8	19587.1	17020.2	16178.1
47.5°	2753.5	2781.2	3053.6	3631.0	4475.7	5993.6	9397.7	16581.5	21559.0	19342.6	18238.1
50°	2239.1	2254.2	2476.1	2988.0	3774.7	5227.1	8391.6	16720.2	23788.0	22630.6	21221.1
52.5°	1770.1	1792.8	1961.7	2362.7	3025.8	4321.9	7304.8	16377.3	26390.2	26528.9	24541.9
55°	1434.7	1442.3	1568.4	1863.4	2365.2	3373.8	5993.6	15421.6	29189.1	31524.0	28989.9
57.5°	1235.5	1240.6	1311.2	1475.1	1820.5	2544.2	4649.7	13613.7	31703.0	37376.4	34118.6
60°	1122.1	1124.6	1164.9	1260.8	1442.3	1951.7	3330.9	11061.9	34184.2	43889.5	40493.0
62.5°	1051.5	1051.5	1079.2	1132.2	1220.4	1497.8	2413.1	7980.6	35883.7	50498.4	48350.1
65°	983.4	983.4	1003.6	1041.4	1089.3	1225.5	1782.7	5204.4	35840.8	55312.0	56252.5
67.5°	905.2	905.2	920.4	958.2	985.9	1054.0	1376.7	3409.1	32194.7	55206.1	60564.3
70°	811.9	811.9	832.1	864.9	887.6	930.4	1086.8	2332.4	23651.8	47137.2	53862.1
72.5°	718.6	721.2	733.8	766.5	784.2	809.4	902.7	1633.9	14508.8	32096.4	37661.4
75°	615.3	620.3	632.9	665.7	680.8	690.9	761.5	1164.9	7340.1	17305.2	19703.1
77.5°	496.7	506.8	514.4	549.7	559.8	574.9	627.9	842.2	3222.5	6218.1	6273.5
80°	363.1	375.7	398.4	431.2	438.7	448.8	479.1	597.6	1460.0	2839.2	3083.8
82.5°	267.3	284.9	257.2	300.1	300.1	287.5	337.9	400.9	670.7	2811.5	3363.7
85°	146.2	148.8	133.6	153.8	163.9	161.4	179.0	196.7	325.3	1876.0	1934.0
87.5°	35.3	37.8	40.3	47.9	58.0	58.0	63.0	55.5	105.9	607.7	348.0
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)