

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: P459399

Luminaire Tested: **GALN-SA8C-735-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459399
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-SA8C-735-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 52792 lumens
Efficiency: N/A
Efficacy: 123.1 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

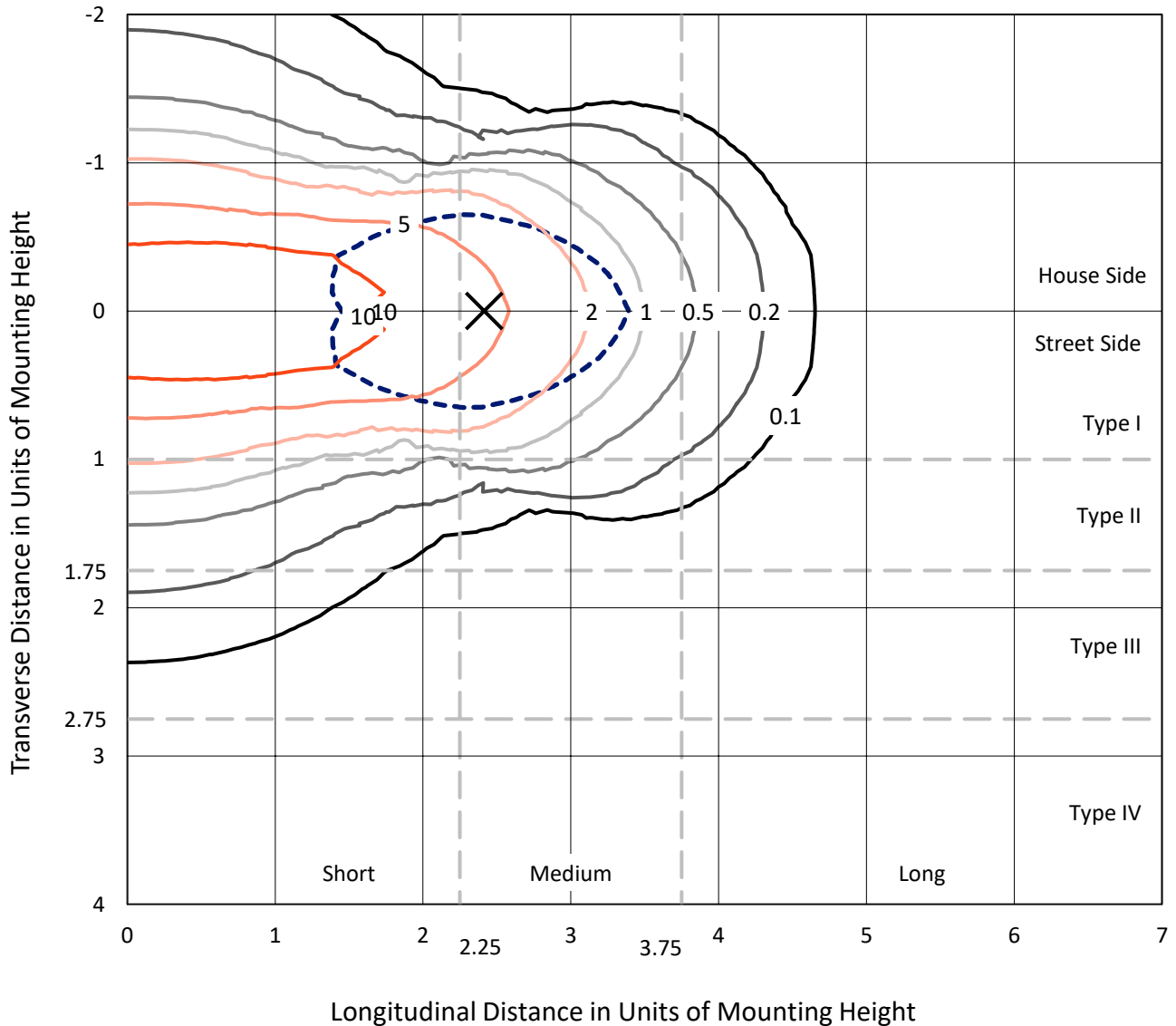
Input Watts (W): 429
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

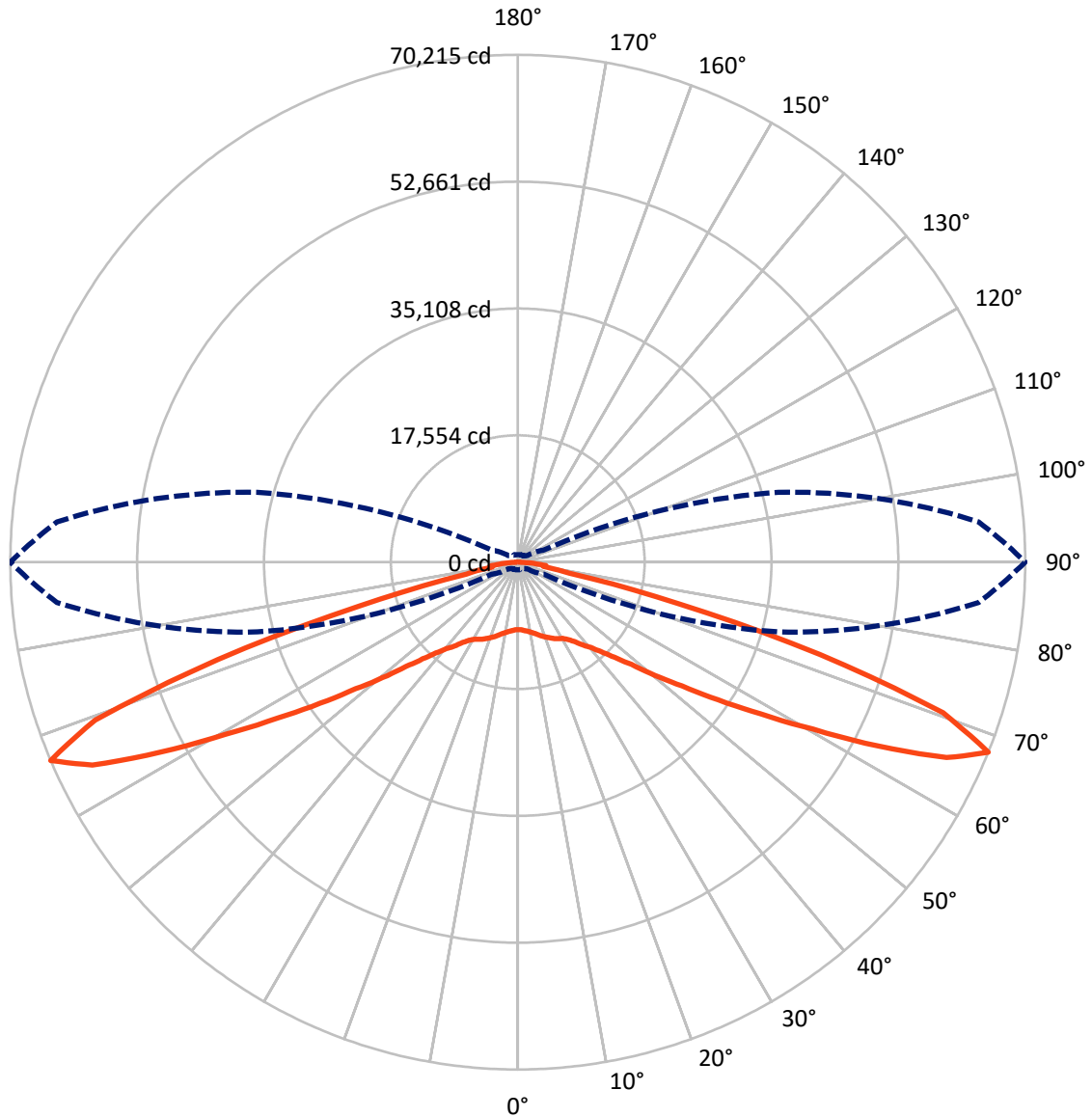
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 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	26396.0	0.0	26396.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	26396.0	0.0	26396.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	52792.0	0.0	52792.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	931.8	1.8
10°-20°	2981.2	5.6
20°-30°	4989.7	9.5
30°-40°	6759.8	12.8
40°-50°	8562.4	16.2
50°-60°	10696.6	20.3
60°-70°	12573.3	23.8
70°-80°	4809.9	9.1
80°-90°	487.3	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°	52792.0	100.0
0°-180°	52792.0	100.0

Coefficient of Utilization



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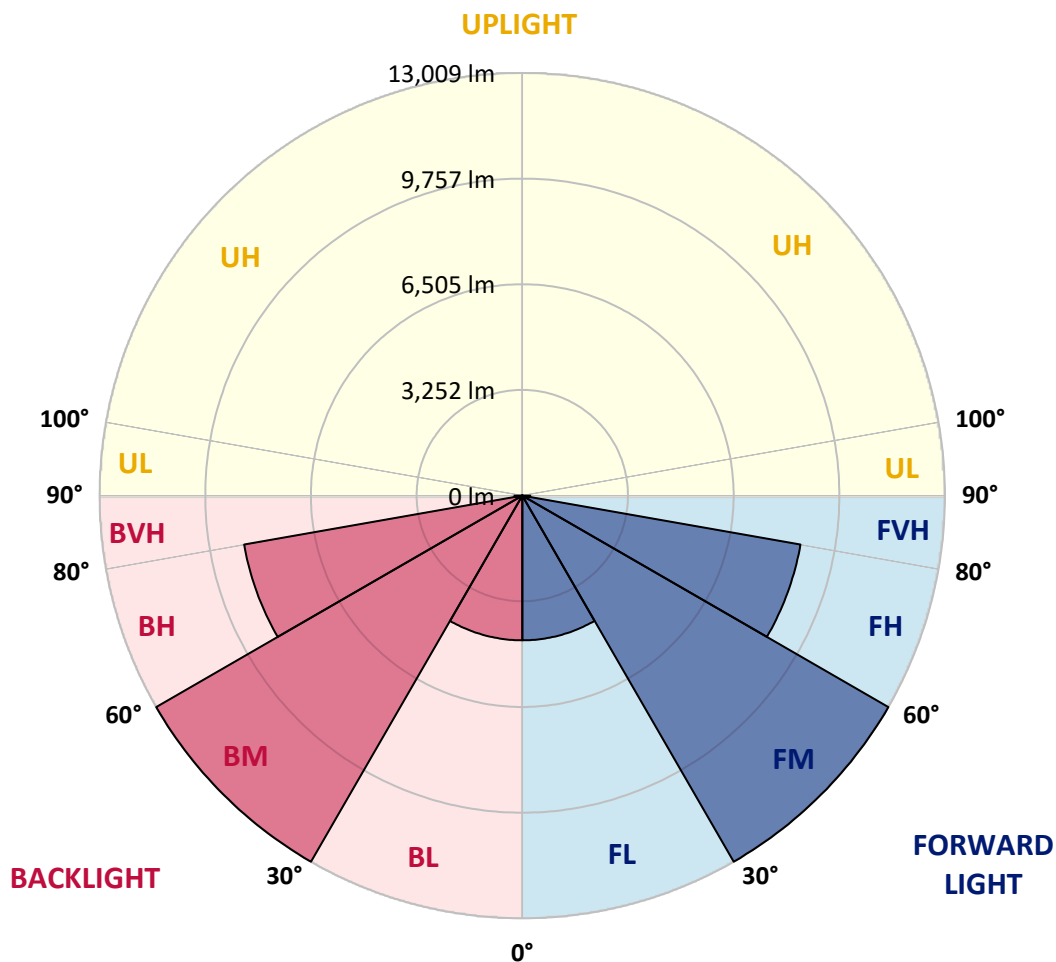
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4451.4	8.4			
FM	(30°-60°)	13009.4	24.6			
FH	(60°-80°)	8691.6	16.5			G4/12000
FVH	(80°-90°)	243.6	0.5			G3/500
BL	(0°-30°)	4451.4	8.4	B4/5000		
BM	(30°-60°)	13009.4	24.6	B5		
BH	(60°-80°)	8691.6	16.5	B5		G5
BVH	(80°-90°)	243.6	0.5			G3/500
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°	9345.8	9345.8	9345.8	9345.8	9345.8	9345.8	9345.8	9345.8	9345.8	9345.8	9345.8
2.5°	9465.7	9459.8	9462.8	9459.8	9468.6	9462.8	9427.7	9398.4	9375.1	9378.0	9369.2
5°	9667.4	9670.3	9673.2	9658.6	9679.1	9667.4	9611.8	9565.1	9518.3	9500.8	9494.9
7.5°	9834.0	9848.6	9857.4	9872.0	9907.1	9907.1	9877.9	9810.6	9708.3	9649.9	9646.9
10°	10000.6	10012.3	10038.7	10085.4	10143.9	10199.4	10187.7	10097.1	9965.6	9866.2	9842.8
12.5°	10059.1	10073.7	10161.4	10295.9	10427.5	10535.6	10535.6	10462.5	10293.0	10141.0	10097.1
15°	9854.5	9880.8	10038.7	10325.1	10670.1	10906.9	10959.5	10857.2	10675.9	10442.1	10389.4
17.5°	9448.1	9512.5	9743.4	10167.3	10740.2	11231.4	11383.4	11333.7	11099.8	10801.6	10740.2
20°	9012.6	9082.7	9328.3	9889.6	10681.8	11421.4	11862.8	11874.5	11585.1	11152.4	11061.8
22.5°	8533.1	8585.8	8901.5	9559.2	10506.4	11465.2	12275.0	12476.7	12085.0	11503.2	11374.6
25°	7995.3	8053.7	8384.1	9094.4	10176.0	11415.5	12652.1	13096.4	12608.2	11877.4	11713.7
27.5°	7480.8	7504.1	7857.9	8579.9	9740.5	11286.9	12929.8	13666.5	13187.1	12187.3	11979.7
30°	6986.7	7042.3	7355.1	8068.3	9240.6	11035.5	13169.5	14315.5	13809.7	12511.8	12245.8
32.5°	6463.4	6530.7	6869.8	7591.8	8740.7	10658.4	13315.7	15025.8	14677.9	13038.0	12754.4
35°	5960.6	6004.5	6346.5	7048.1	8252.5	10219.9	13342.0	15826.8	15797.6	13836.0	13458.9
37.5°	5446.1	5510.4	5855.4	6527.8	7735.1	9755.1	13210.4	16677.5	17148.1	14944.0	14537.6
40°	4952.1	5007.6	5346.7	6024.9	7147.5	9188.0	12897.7	17455.1	18723.8	16084.1	15508.2
42.5°	4414.2	4428.8	4800.1	5490.0	6571.6	8530.2	12447.5	18147.9	20480.7	17613.0	16896.7
45°	3803.2	3841.2	4186.2	4864.4	5910.9	7793.5	11836.5	18720.9	22708.3	19732.4	18756.0
47.5°	3192.3	3224.4	3540.1	4209.6	5188.9	6948.7	10895.2	19223.7	24994.3	22424.7	21144.3
50°	2595.9	2613.4	2870.7	3464.1	4376.2	6060.0	9728.8	19384.5	27578.5	26236.7	24602.6
52.5°	2052.2	2078.5	2274.3	2739.1	3508.0	5010.6	8468.8	18986.9	30595.4	30756.2	28452.6
55°	1663.4	1672.1	1818.3	2160.3	2742.1	3911.4	6948.7	17879.0	33840.3	36547.2	33609.3
57.5°	1432.4	1438.3	1520.1	1710.1	2110.6	2949.6	5390.6	15783.0	36754.8	43332.3	39555.3
60°	1300.9	1303.8	1350.6	1461.7	1672.1	2262.6	3861.7	12824.6	39631.3	50883.2	46945.5
62.5°	1219.0	1219.0	1251.2	1312.6	1414.9	1736.4	2797.6	9252.3	41601.6	58545.2	56054.5
65°	1140.1	1140.1	1163.5	1207.3	1262.9	1420.7	2066.8	6033.7	41552.0	64125.8	65216.2
67.5°	1049.5	1049.5	1067.0	1110.9	1143.0	1221.9	1596.1	3952.3	37324.8	64003.0	70215.0
70°	941.3	941.3	964.7	1002.7	1029.0	1078.7	1259.9	2704.1	27420.7	54648.4	62444.9
72.5°	833.1	836.1	850.7	888.7	909.1	938.4	1046.5	1894.3	16820.7	37210.8	43662.6
75°	713.3	719.1	733.8	771.8	789.3	801.0	882.8	1350.6	8509.8	20062.7	22842.8
77.5°	575.9	587.6	596.4	637.3	649.0	666.5	727.9	976.4	3736.0	7208.9	7273.2
80°	421.0	435.6	461.9	499.9	508.7	520.3	555.4	692.8	1692.6	3291.6	3575.2
82.5°	309.9	330.3	298.2	347.9	347.9	333.3	391.7	464.8	777.6	3259.5	3899.7
85°	169.6	172.5	154.9	178.3	190.0	187.1	207.6	228.0	377.1	2174.9	2242.2
87.5°	40.9	43.8	46.8	55.5	67.2	67.2	73.1	64.3	122.8	704.5	403.4
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)