

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: P458935

Luminaire Tested: **GALN-SA4C-735-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458935
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-SA4C-735-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 25862 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

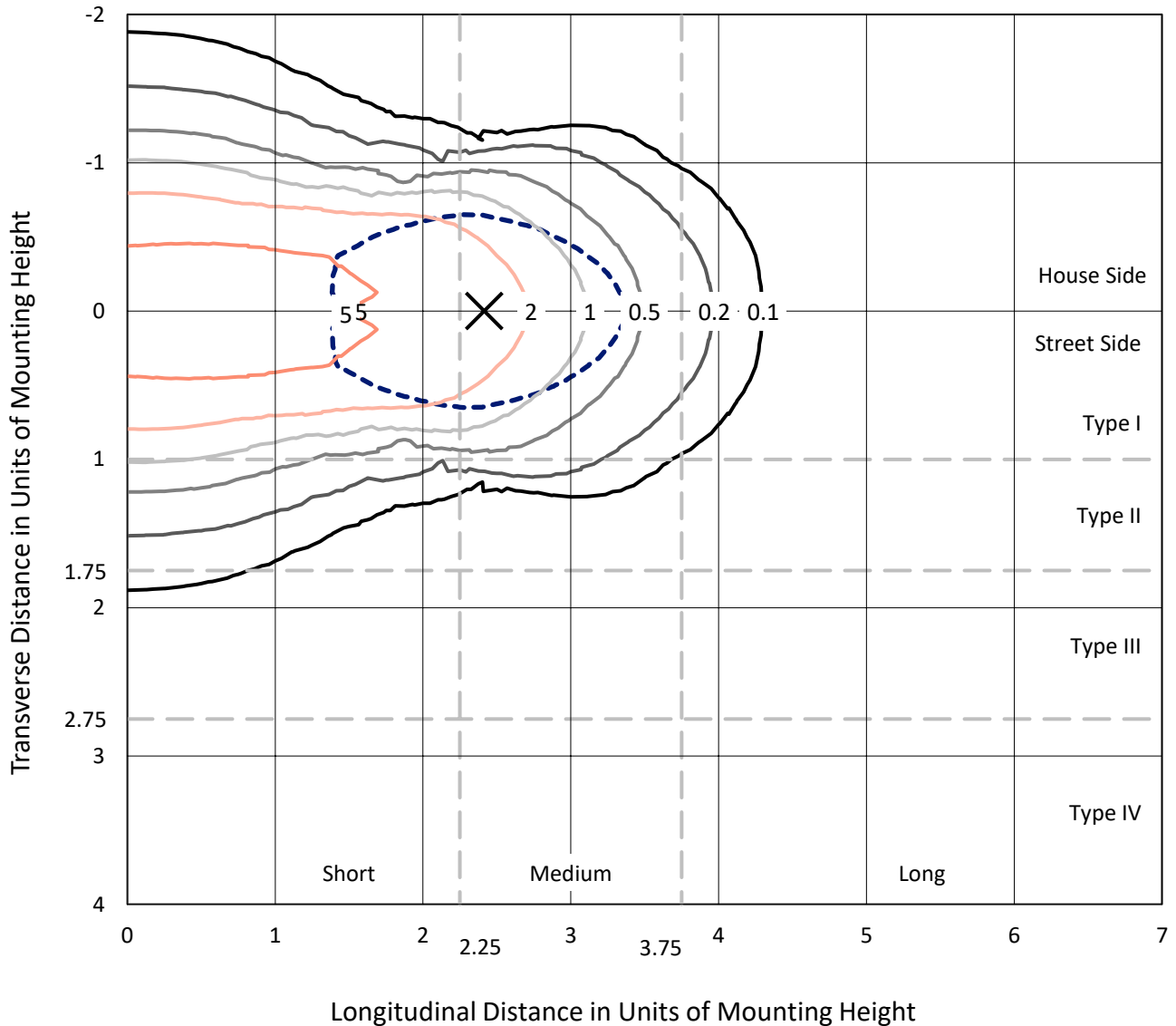
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

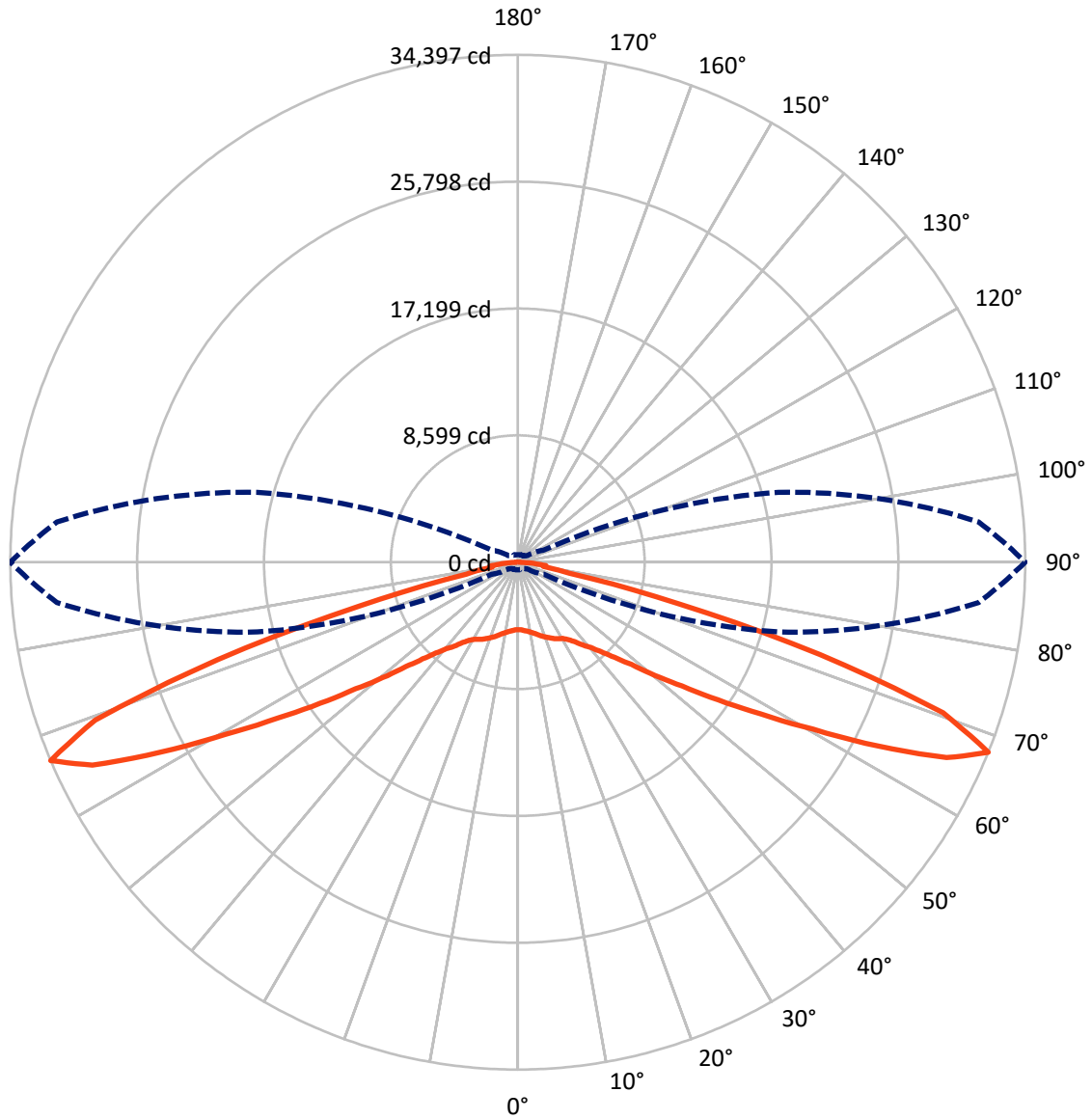
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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	12931.0	0.0	12931.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12931.0	0.0	12931.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	25862.0	0.0	25862.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	456.5	1.8
10°-20°	1460.4	5.6
20°-30°	2444.4	9.5
30°-40°	3311.5	12.8
40°-50°	4194.6	16.2
50°-60°	5240.1	20.3
60°-70°	6159.5	23.8
70°-80°	2356.3	9.1
80°-90°	238.7	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°	25862.0	100.0
0°-180°	25862.0	100.0

Coefficient of Utilization



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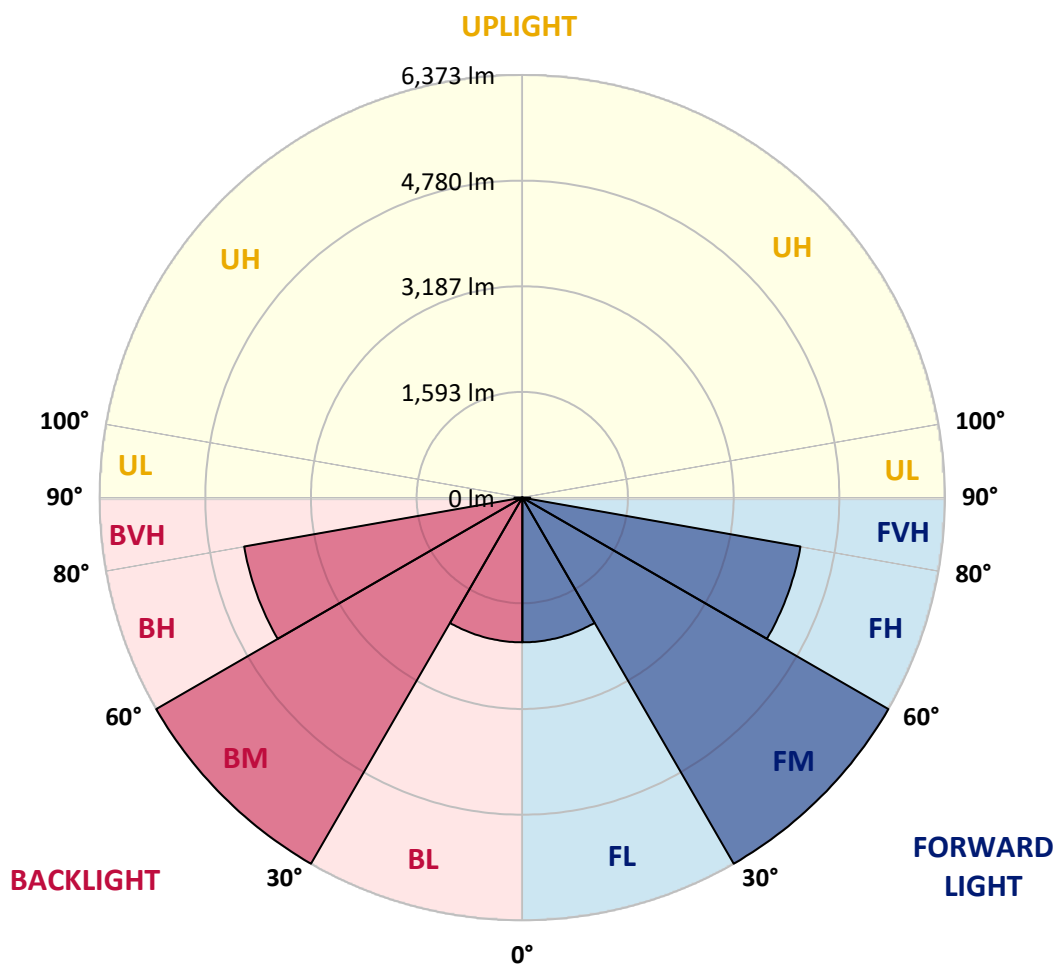
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2180.6	8.4			
FM	(30°-60°)	6373.1	24.6			
FH	(60°-80°)	4257.9	16.5			G2/5000
FVH	(80°-90°)	119.4	0.5			G2/225
BL	(0°-30°)	2180.6	8.4	B3/2500		
BM	(30°-60°)	6373.1	24.6	B4/8500		
BH	(60°-80°)	4257.9	16.5	B4/5000		G4/5000
BVH	(80°-90°)	119.4	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4578.4	4578.4	4578.4	4578.4	4578.4	4578.4	4578.4	4578.4	4578.4	4578.4	4578.4
2.5°	4637.1	4634.2	4635.7	4634.2	4638.5	4635.7	4618.5	4604.2	4592.7	4594.1	4589.8
5°	4735.9	4737.3	4738.8	4731.6	4741.6	4735.9	4708.7	4685.8	4662.9	4654.3	4651.4
7.5°	4817.5	4824.7	4829.0	4836.2	4853.3	4853.3	4839.0	4806.1	4756.0	4727.3	4725.9
10°	4899.2	4904.9	4917.8	4940.7	4969.3	4996.5	4990.8	4946.4	4882.0	4833.3	4821.8
12.5°	4927.8	4935.0	4977.9	5043.8	5108.3	5161.2	5161.2	5125.4	5042.4	4967.9	4946.4
15°	4827.6	4840.5	4917.8	5058.1	5227.1	5343.1	5368.9	5318.8	5230.0	5115.4	5089.6
17.5°	4628.5	4660.0	4773.1	4980.8	5261.5	5502.1	5576.5	5552.2	5437.6	5291.6	5261.5
20°	4415.1	4449.5	4569.8	4844.7	5232.8	5595.2	5811.4	5817.1	5675.4	5463.4	5419.0
22.5°	4180.3	4206.0	4360.7	4682.9	5146.9	5616.6	6013.3	6112.1	5920.2	5635.3	5572.2
25°	3916.8	3945.4	4107.2	4455.2	4985.1	5592.3	6198.1	6415.7	6176.6	5818.6	5738.4
27.5°	3664.7	3676.2	3849.4	4203.2	4771.7	5529.3	6334.1	6695.0	6460.1	5970.4	5868.7
30°	3422.7	3449.9	3603.1	3952.6	4526.8	5406.1	6451.5	7012.9	6765.2	6129.3	5999.0
32.5°	3166.3	3199.3	3365.4	3719.1	4281.9	5221.4	6523.2	7360.9	7190.5	6387.1	6248.2
35°	2920.0	2941.5	3109.1	3452.8	4042.8	5006.6	6536.0	7753.3	7739.0	6778.1	6593.3
37.5°	2668.0	2699.5	2868.5	3197.8	3789.3	4778.9	6471.6	8170.1	8400.6	7320.8	7121.8
40°	2426.0	2453.2	2619.3	2951.5	3501.5	4501.0	6318.4	8551.0	9172.5	7879.3	7597.2
42.5°	2162.4	2169.6	2351.5	2689.5	3219.3	4178.8	6097.8	8890.4	10033.2	8628.3	8277.5
45°	1863.1	1881.8	2050.7	2383.0	2895.7	3817.9	5798.5	9171.1	11124.4	9666.6	9188.3
47.5°	1563.8	1579.6	1734.3	2062.2	2542.0	3404.1	5337.4	9417.4	12244.3	10985.5	10358.3
50°	1271.7	1280.3	1406.3	1697.0	2143.8	2968.7	4766.0	9496.2	13510.3	12853.0	12052.4
52.5°	1005.3	1018.2	1114.2	1341.9	1718.5	2454.6	4148.8	9301.4	14988.2	15067.0	13938.5
55°	814.9	819.2	890.8	1058.3	1343.3	1916.1	3404.1	8758.6	16577.8	17903.9	16464.7
57.5°	701.7	704.6	744.7	837.8	1034.0	1445.0	2640.8	7731.8	18005.6	21227.8	19377.6
60°	637.3	638.7	661.6	716.0	819.2	1108.4	1891.8	6282.6	19414.8	24926.9	22997.9
62.5°	597.2	597.2	612.9	643.0	693.1	850.7	1370.5	4532.6	20380.0	28680.4	27460.3
65°	558.5	558.5	570.0	591.5	618.7	696.0	1012.5	2955.8	20355.7	31414.2	31948.4
67.5°	514.1	514.1	522.7	544.2	559.9	598.6	781.9	1936.2	18284.9	31354.1	34397.3
70°	461.1	461.1	472.6	491.2	504.1	528.4	617.2	1324.7	13433.0	26771.4	30590.8
72.5°	408.1	409.6	416.7	435.4	445.4	459.7	512.7	928.0	8240.2	18229.0	21389.6
75°	349.4	352.3	359.5	378.1	386.7	392.4	432.5	661.6	4168.8	9828.4	11190.3
77.5°	282.1	287.8	292.1	312.2	317.9	326.5	356.6	478.3	1830.2	3531.5	3563.0
80°	206.2	213.4	226.3	244.9	249.2	254.9	272.1	339.4	829.2	1612.5	1751.4
82.5°	151.8	161.8	146.1	170.4	170.4	163.3	191.9	227.7	380.9	1596.8	1910.4
85°	83.1	84.5	75.9	87.4	93.1	91.7	101.7	111.7	184.7	1065.5	1098.4
87.5°	20.0	21.5	22.9	27.2	32.9	32.9	35.8	31.5	60.1	345.1	197.6
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)