

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: P458808

Luminaire Tested: **GALN-SA3C-735-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458808
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-735-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20171 lumens
Efficiency: N/A
Efficacy: 126.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

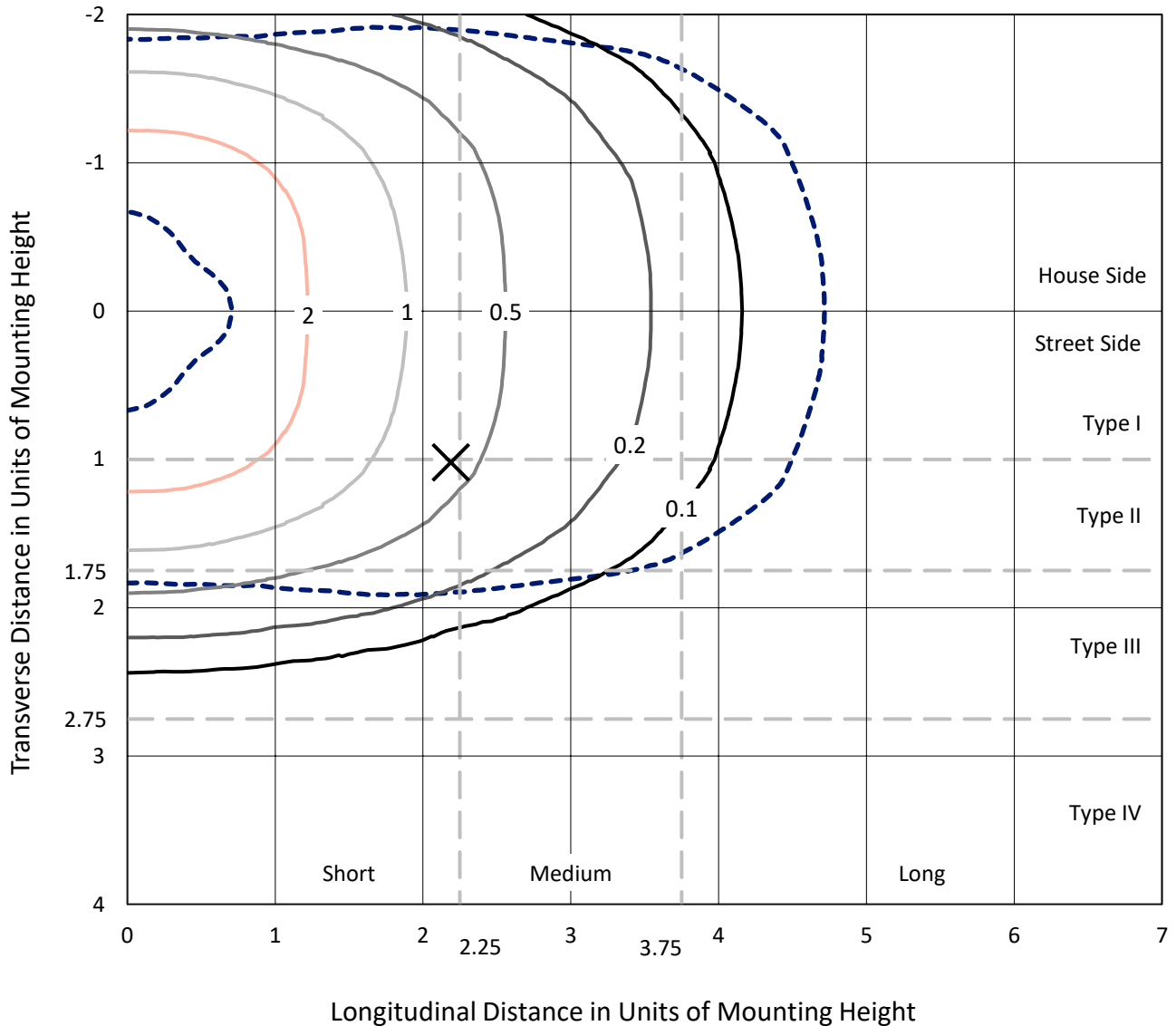
Input Watts (W): 160
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

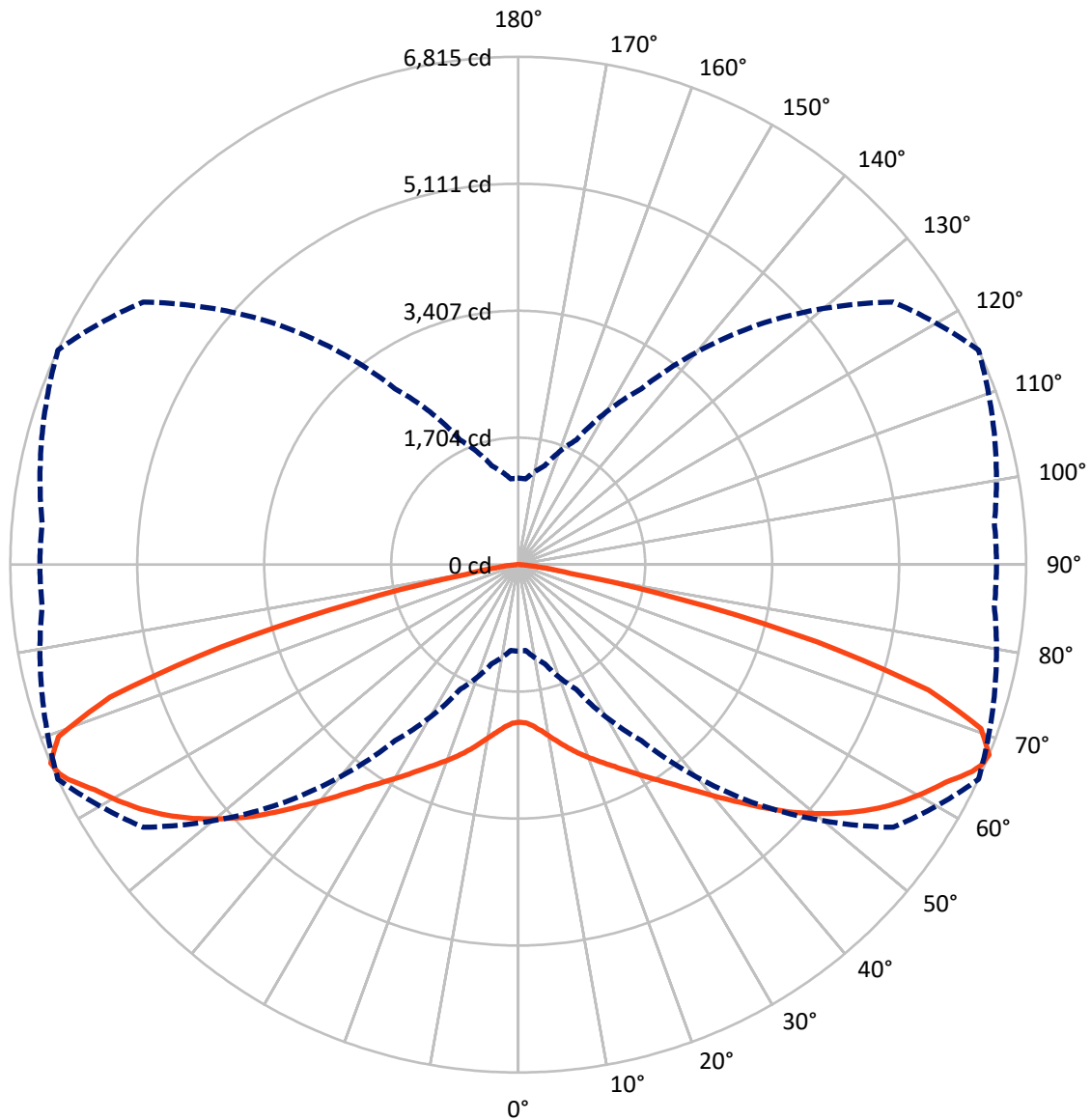
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10085.5	0.0	10085.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10085.5	0.0	10085.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	20171.0	0.0	20171.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.4	1.0
10°-20°	697.4	3.5
20°-30°	1364.2	6.8
30°-40°	2320.3	11.5
40°-50°	3672.3	18.2
50°-60°	4869.4	24.1
60°-70°	4593.3	22.8
70°-80°	2270.7	11.3
80°-90°	175.0	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°	20171.0	100.0
0°-180°	20171.0	100.0

Coefficient of Utilization



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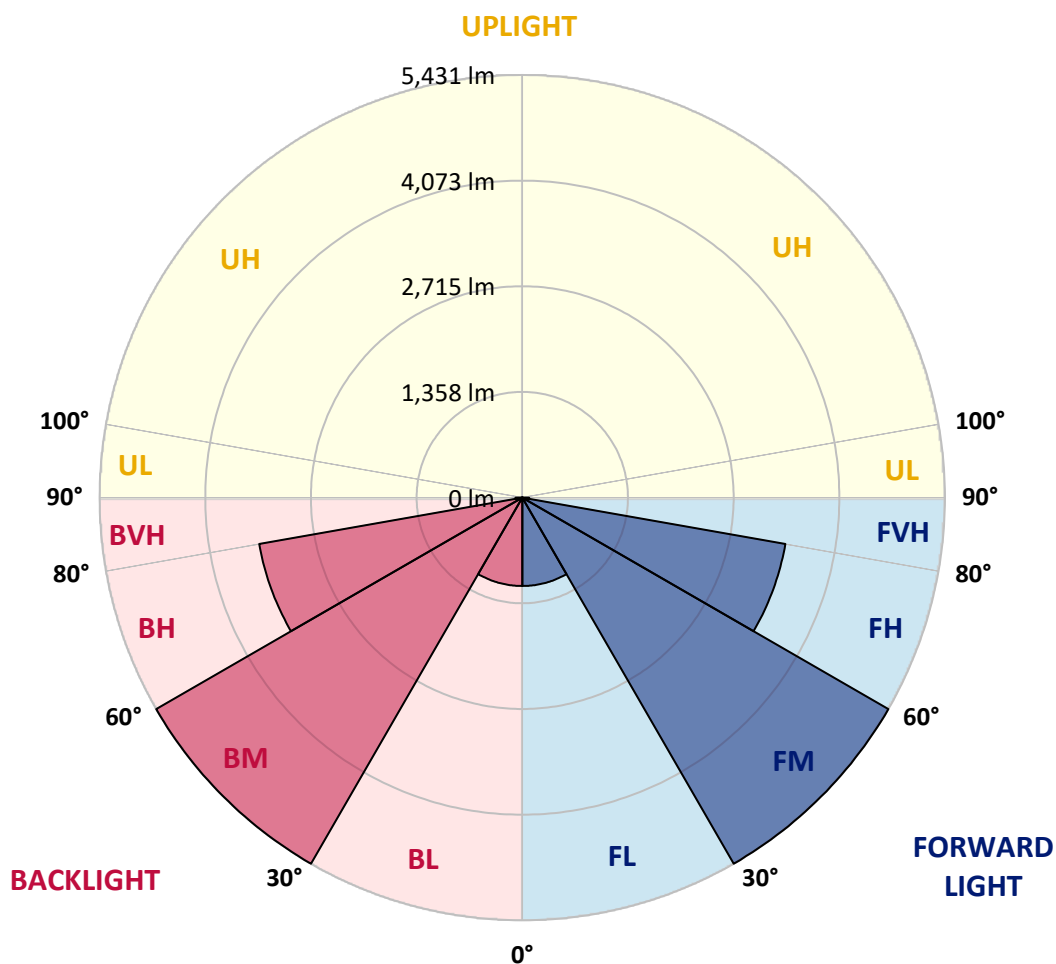
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1135.0	5.6			
FM	(30°-60°)	5431.0	26.9			
FH	(60°-80°)	3432.0	17.0			G2/5000
FVH	(80°-90°)	87.5	0.4			G1/100
BL	(0°-30°)	1135.0	5.6	B3/2500		
BM	(30°-60°)	5431.0	26.9	B4/8500		
BH	(60°-80°)	3432.0	17.0	B4/5000		G4/5000
BVH	(80°-90°)	87.5	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2112.7	2112.7	2112.7	2112.7	2112.7	2112.7	2112.7	2112.7	2112.7	2112.7	2112.7
2.5°	2101.9	2104.1	2106.3	2109.5	2113.8	2120.3	2124.6	2127.9	2136.5	2137.6	2136.5
5°	2094.4	2096.5	2101.9	2111.7	2125.7	2145.2	2160.3	2178.7	2192.7	2202.4	2200.3
7.5°	2093.3	2097.6	2106.3	2126.8	2153.8	2187.3	2221.9	2253.2	2280.2	2301.9	2298.6
10°	2110.6	2116.0	2130.0	2160.3	2202.4	2251.1	2299.7	2346.2	2385.1	2413.2	2422.9
12.5°	2139.8	2144.1	2170.0	2215.4	2275.9	2336.4	2391.6	2448.8	2502.9	2550.4	2550.4
15°	2190.5	2198.1	2230.5	2296.5	2371.0	2441.3	2497.5	2558.0	2616.3	2670.4	2686.6
17.5°	2260.8	2271.6	2320.2	2404.5	2499.6	2564.5	2617.4	2667.1	2717.9	2769.8	2777.4
20°	2357.0	2367.8	2432.6	2534.2	2646.6	2724.4	2760.1	2772.0	2796.8	2846.5	2853.0
22.5°	2487.7	2498.5	2570.9	2685.5	2810.9	2895.1	2910.3	2882.2	2875.7	2914.6	2918.9
25°	2635.8	2645.5	2728.7	2851.9	2981.6	3073.5	3069.1	3000.0	2961.1	2984.8	2991.3
27.5°	2802.2	2816.3	2900.6	3028.1	3168.6	3249.6	3236.6	3136.1	3052.9	3048.6	3050.8
30°	3015.1	3030.2	3110.2	3232.3	3370.6	3445.2	3418.2	3283.1	3154.5	3111.3	3111.3
32.5°	3239.9	3277.7	3358.8	3486.3	3594.4	3648.4	3607.3	3445.2	3274.5	3213.9	3210.7
35°	3532.8	3553.3	3633.3	3757.5	3838.6	3880.7	3801.8	3627.9	3431.2	3359.8	3350.1
37.5°	3819.1	3836.4	3929.4	4048.2	4146.6	4144.4	4037.4	3845.1	3625.7	3545.7	3539.2
40°	4112.0	4130.4	4236.3	4345.4	4443.8	4435.1	4305.4	4090.4	3857.0	3767.3	3784.6
42.5°	4366.0	4386.5	4506.4	4662.1	4750.7	4748.5	4598.3	4356.2	4113.1	4033.1	4048.2
45°	4597.2	4615.6	4755.0	4933.3	5063.0	5079.2	4914.9	4658.8	4409.2	4306.5	4310.8
47.5°	4760.4	4795.0	4940.9	5145.1	5321.3	5378.6	5217.5	4966.8	4679.4	4572.4	4578.9
50°	4884.7	4906.3	5065.2	5297.5	5520.1	5639.0	5509.3	5252.1	4949.5	4836.1	4851.2
52.5°	4899.8	4925.8	5098.7	5366.7	5652.0	5832.4	5768.7	5530.9	5225.1	5108.4	5140.8
55°	4776.6	4791.7	4998.2	5323.4	5703.8	5976.2	5992.4	5790.3	5487.7	5399.1	5420.7
57.5°	4425.4	4464.3	4725.8	5121.4	5632.5	6052.9	6159.9	6025.9	5753.6	5666.0	5700.6
60°	3849.4	3888.3	4150.9	4652.3	5363.4	6017.2	6298.2	6234.5	5994.5	5924.3	5942.7
62.5°	3016.2	3012.9	3338.2	3953.1	4828.5	5842.2	6400.9	6435.5	6232.3	6143.7	6171.8
65°	1955.0	1964.7	2279.2	2941.6	4021.2	5396.9	6423.6	6691.6	6465.7	6331.7	6352.3
66°	1572.4	1601.6	1868.5	2479.1	3609.5	5105.1	6355.5	6767.2	6537.0	6374.9	6384.7
67.5°	1160.7	1155.2	1374.6	1845.8	2882.2	4550.8	6142.6	6814.8	6618.1	6413.9	6418.2
70°	662.5	661.4	739.2	1013.7	1694.5	3204.2	5177.5	6586.8	6782.4	6554.3	6542.5
72.5°	484.1	480.9	491.7	559.8	826.7	1617.8	3571.7	5756.8	6698.1	6531.6	6498.1
75°	406.3	404.2	402.0	410.7	463.6	732.7	1895.5	4141.2	5811.9	6130.7	6096.1
77.5°	331.8	331.8	332.9	330.7	332.9	385.8	785.7	2219.7	3539.2	3951.0	4047.2
80°	259.4	258.3	276.7	269.1	251.8	247.5	348.0	714.3	1174.7	1168.2	964.0
82.5°	191.3	178.3	210.7	205.3	185.9	157.8	203.2	304.8	392.3	255.0	189.1
85°	121.0	120.0	149.1	136.2	113.5	74.6	97.3	130.8	162.1	98.3	80.0
87.5°	21.6	20.5	47.6	34.6	34.6	21.6	27.0	35.7	53.0	36.7	27.0
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)