

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: P458732

Luminaire Tested: **GALN-SA2D-735-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458732
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-SA2D-735-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14466 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

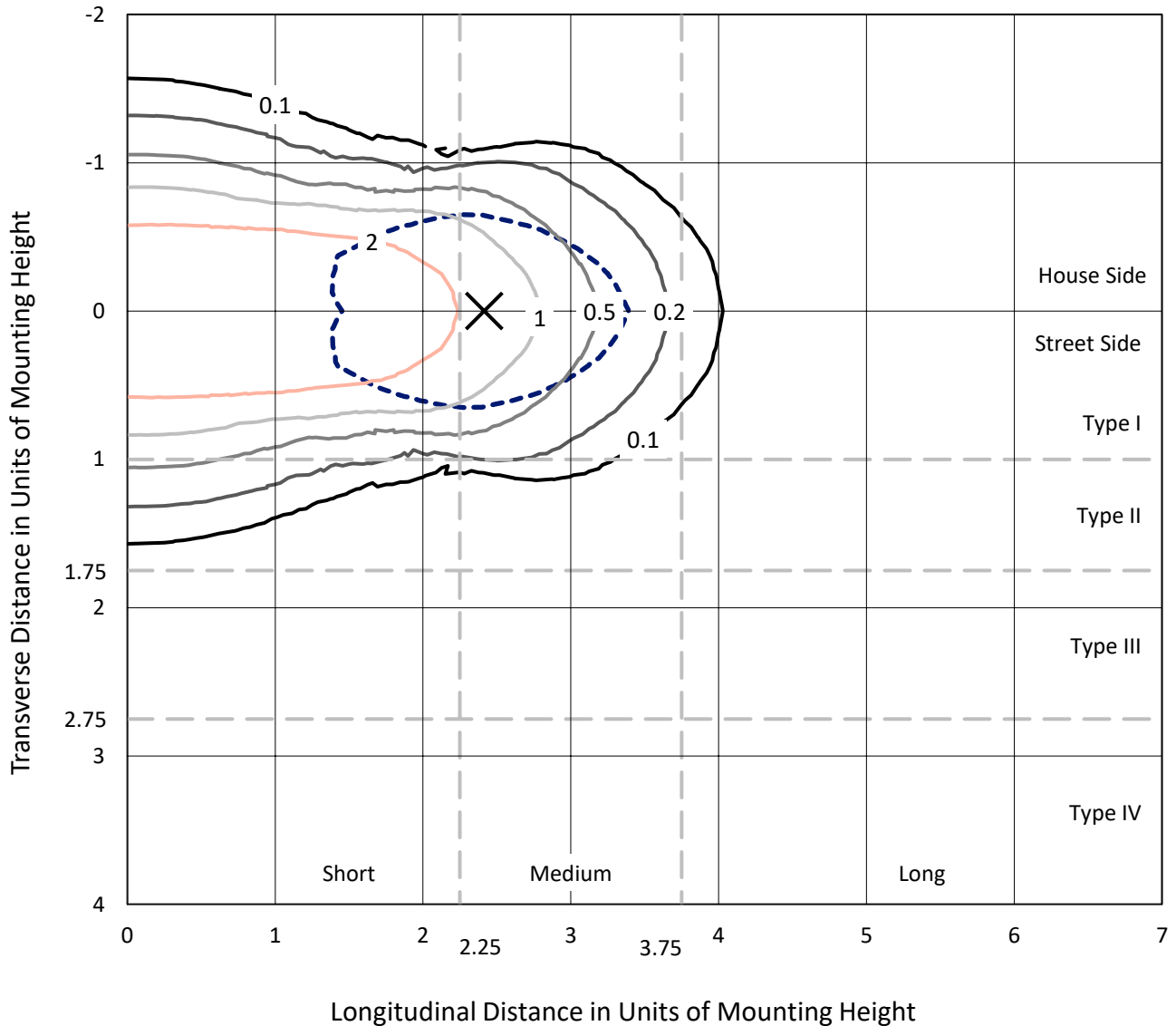
Input Watts (W): 125
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

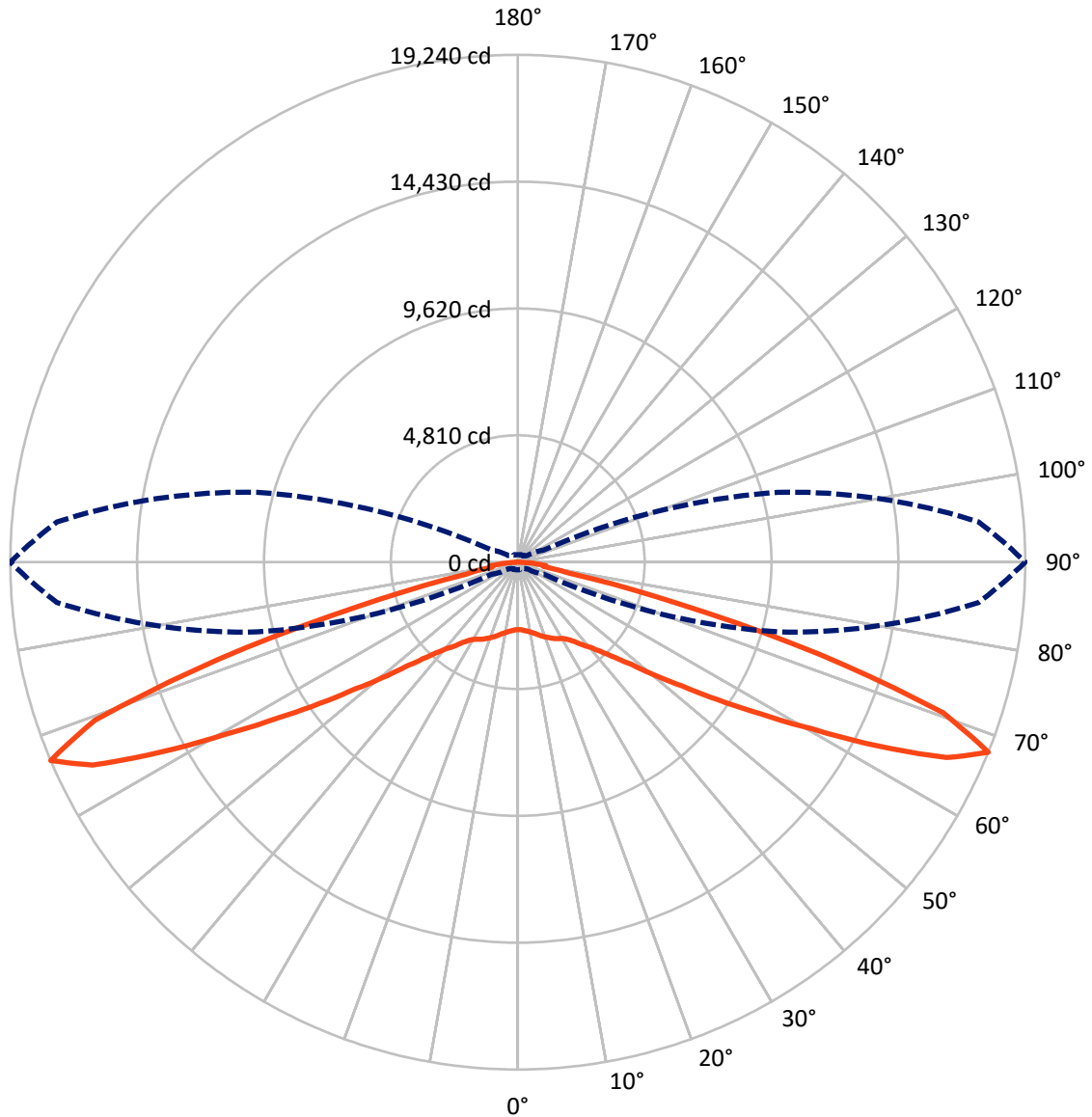
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type I - Short - N/A

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CATALOG NUMBER: GALN-SA2D-735-U-T1

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	7233.0	0.0	7233.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7233.0	0.0	7233.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	14466.0	0.0	14466.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.3	1.8
10°-20°	816.9	5.6
20°-30°	1367.3	9.5
30°-40°	1852.3	12.8
40°-50°	2346.3	16.2
50°-60°	2931.1	20.3
60°-70°	3445.3	23.8
70°-80°	1318.0	9.1
80°-90°	133.5	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°	14466.0	100.0
0°-180°	14466.0	100.0

Coefficient of Utilization



REPORT NUMBER: P458732

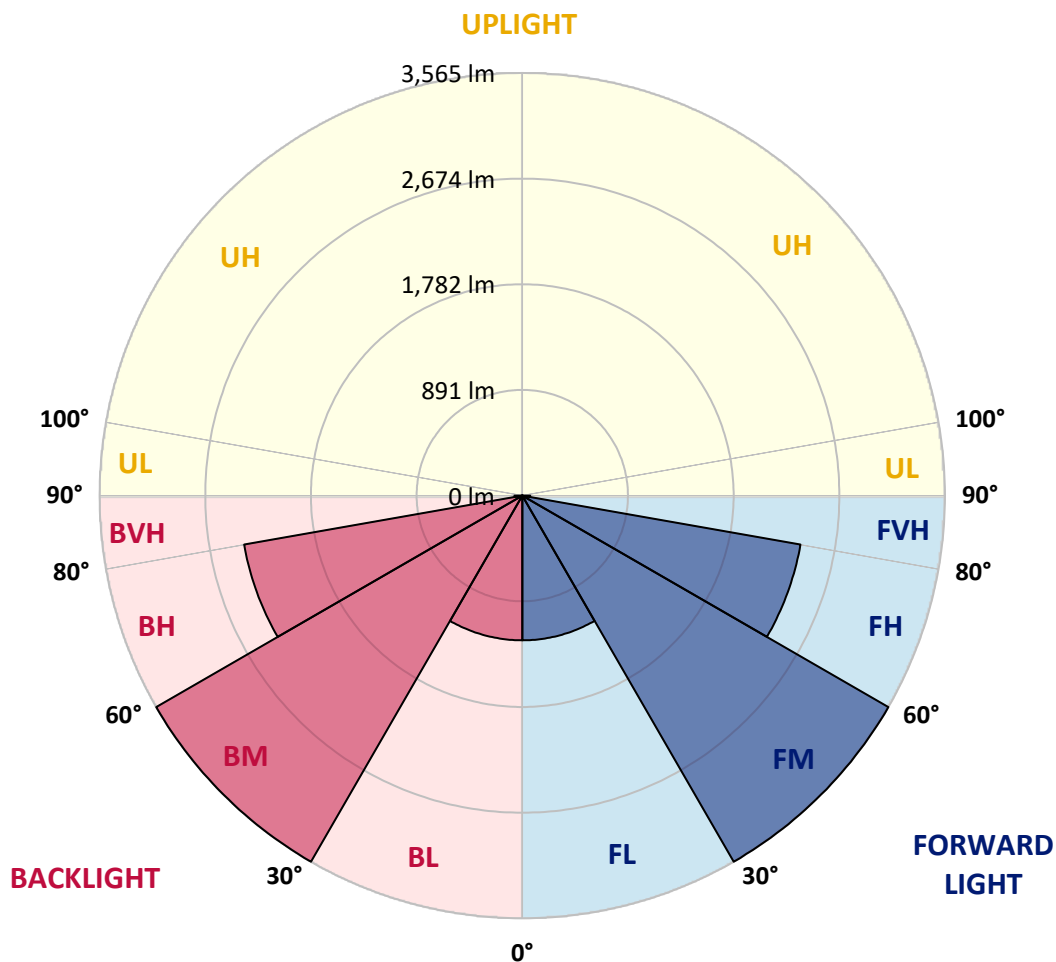
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1219.8	8.4			
FM	(30°-60°)	3564.8	24.6			
FH	(60°-80°)	2381.7	16.5			G2/5000
FVH	(80°-90°)	66.8	0.5			G1/100
BL	(0°-30°)	1219.8	8.4	B3/2500		
BM	(30°-60°)	3564.8	24.6	B3/5000		
BH	(60°-80°)	2381.7	16.5	B3/2500		G3/2500
BVH	(80°-90°)	66.8	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2560.9	2560.9	2560.9	2560.9	2560.9	2560.9	2560.9	2560.9	2560.9	2560.9	2560.9
2.5°	2593.8	2592.2	2593.0	2592.2	2594.6	2593.0	2583.4	2575.4	2568.9	2569.7	2567.3
5°	2649.0	2649.8	2650.6	2646.6	2652.3	2649.0	2633.8	2621.0	2608.2	2603.4	2601.8
7.5°	2694.7	2698.7	2701.1	2705.1	2714.7	2714.7	2706.7	2688.3	2660.3	2644.2	2643.4
10°	2740.4	2743.6	2750.8	2763.6	2779.6	2794.8	2791.6	2766.8	2730.8	2703.5	2697.1
12.5°	2756.4	2760.4	2784.4	2821.3	2857.3	2887.0	2887.0	2866.9	2820.5	2778.8	2766.8
15°	2700.3	2707.5	2750.8	2829.3	2923.8	2988.7	3003.1	2975.1	2925.4	2861.3	2846.9
17.5°	2589.0	2606.6	2669.9	2786.0	2943.0	3077.6	3119.3	3105.6	3041.6	2959.9	2943.0
20°	2469.6	2488.8	2556.1	2709.9	2927.0	3129.7	3250.6	3253.8	3174.5	3056.0	3031.1
22.5°	2338.2	2352.7	2439.2	2619.4	2878.9	3141.7	3363.6	3418.8	3311.5	3152.1	3116.9
25°	2190.9	2206.9	2297.4	2492.0	2788.4	3128.1	3466.9	3588.7	3454.9	3254.6	3209.8
27.5°	2049.9	2056.3	2153.2	2351.1	2669.1	3092.8	3543.0	3744.9	3613.5	3339.5	3282.7
30°	1914.5	1929.7	2015.4	2210.9	2532.1	3023.9	3608.7	3922.7	3784.1	3428.5	3355.6
32.5°	1771.1	1789.5	1882.4	2080.3	2395.1	2920.6	3648.7	4117.4	4022.0	3572.6	3494.9
35°	1633.3	1645.3	1739.1	1931.3	2261.3	2800.4	3656.0	4336.8	4328.8	3791.3	3688.0
37.5°	1492.3	1510.0	1604.5	1788.7	2119.6	2673.1	3619.9	4569.9	4698.9	4094.9	3983.6
40°	1357.0	1372.2	1465.1	1650.9	1958.5	2517.7	3534.2	4783.0	5130.7	4407.3	4249.5
42.5°	1209.6	1213.6	1315.3	1504.4	1800.7	2337.4	3410.8	4972.9	5612.1	4826.3	4630.0
45°	1042.2	1052.6	1147.1	1332.9	1619.7	2135.6	3243.4	5129.9	6222.5	5407.0	5139.5
47.5°	874.7	883.5	970.1	1153.5	1421.9	1904.1	2985.5	5267.7	6848.9	6144.8	5793.9
50°	711.3	716.1	786.6	949.2	1199.2	1660.6	2665.9	5311.7	7557.0	7189.4	6741.6
52.5°	562.3	569.5	623.2	750.6	961.3	1373.0	2320.6	5202.8	8383.7	8427.8	7796.5
55°	455.8	458.2	498.2	592.0	751.4	1071.8	1904.1	4899.2	9272.9	10014.6	9209.6
57.5°	392.5	394.1	416.5	468.6	578.4	808.3	1477.1	4324.8	10071.5	11873.9	10838.9
60°	356.5	357.3	370.1	400.5	458.2	620.0	1058.2	3514.2	10859.7	13942.9	12863.9
62.5°	334.0	334.0	342.8	359.7	387.7	475.8	766.6	2535.3	11399.6	16042.5	15360.0
65°	312.4	312.4	318.8	330.8	346.1	389.3	566.3	1653.4	11386.0	17571.7	17870.5
67.5°	287.6	287.6	292.4	304.4	313.2	334.8	437.4	1083.0	10227.7	17538.0	19240.2
70°	257.9	257.9	264.3	274.8	282.0	295.6	345.2	741.0	7513.8	14974.7	17111.1
72.5°	228.3	229.1	233.1	243.5	249.1	257.1	286.8	519.1	4609.2	10196.5	11964.4
75°	195.5	197.1	201.1	211.5	216.3	219.5	241.9	370.1	2331.8	5497.6	6259.3
77.5°	157.8	161.0	163.4	174.6	177.8	182.6	199.5	267.5	1023.7	1975.4	1993.0
80°	115.4	119.4	126.6	137.0	139.4	142.6	152.2	189.8	463.8	902.0	979.7
82.5°	84.9	90.5	81.7	95.3	95.3	91.3	107.3	127.4	213.1	893.2	1068.6
85°	46.5	47.3	42.5	48.9	52.1	51.3	56.9	62.5	103.3	596.0	614.4
87.5°	11.2	12.0	12.8	15.2	18.4	18.4	20.0	17.6	33.6	193.1	110.5
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)