

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: P452352

Luminaire Tested: **GALN-SA3B-740-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452352
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-SA3B-740-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16957 lumens
Efficiency: N/A
Efficacy: 140.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

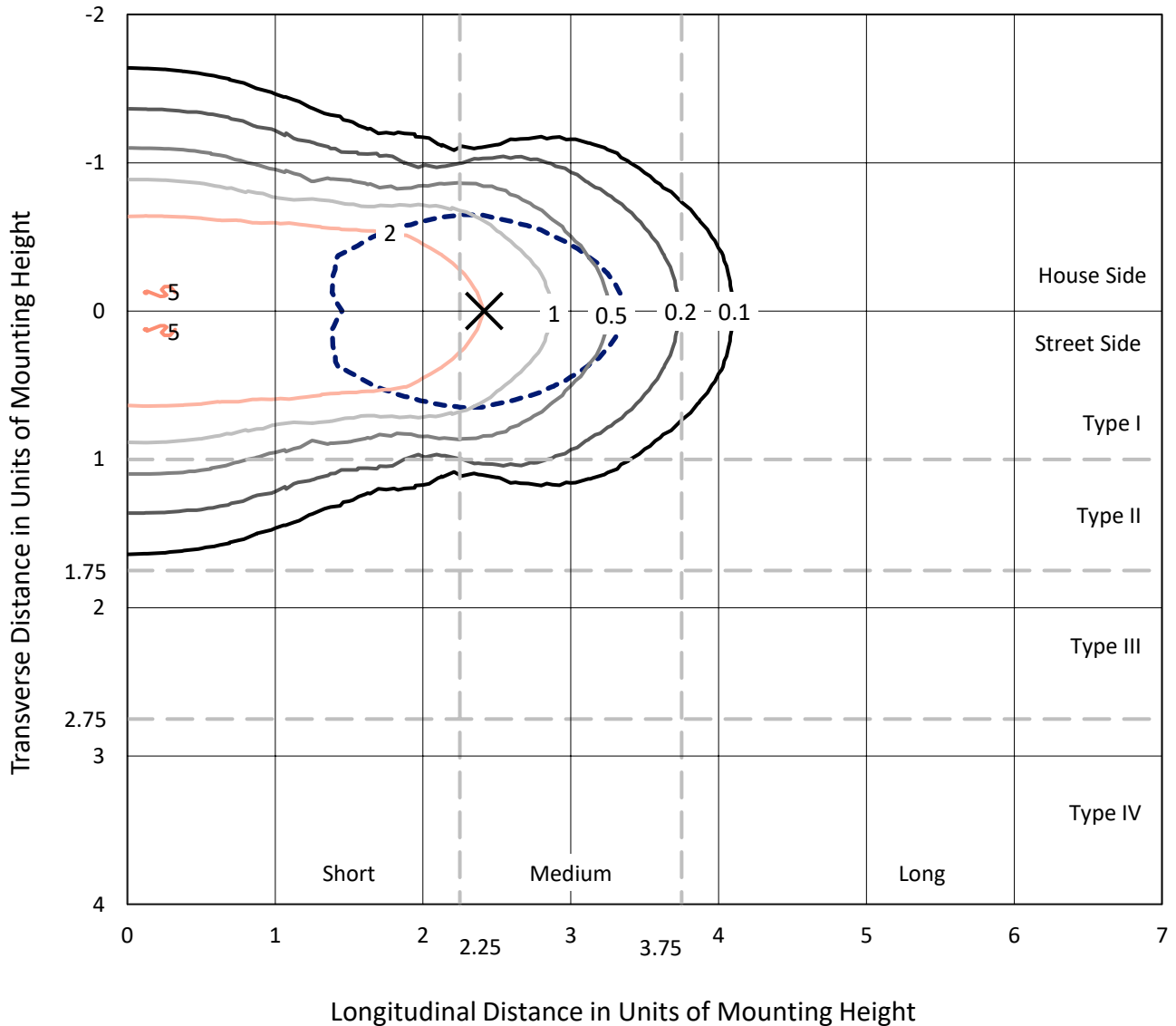
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

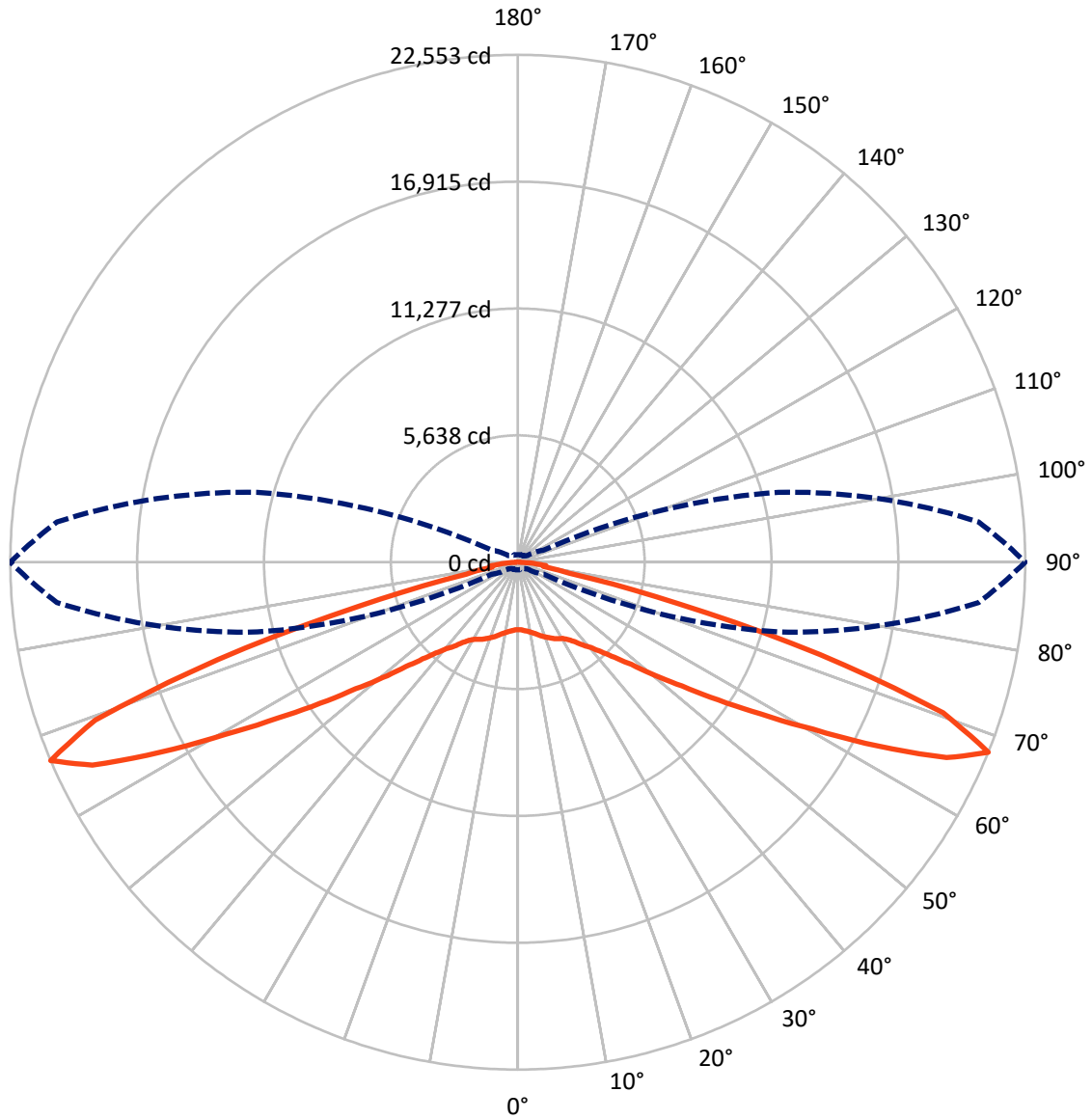
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	8478.5	0.0	8478.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8478.5	0.0	8478.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	16957.0	0.0	16957.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.3	1.8
10°-20°	957.6	5.6
20°-30°	1602.7	9.5
30°-40°	2171.3	12.8
40°-50°	2750.3	16.2
50°-60°	3435.8	20.3
60°-70°	4038.6	23.8
70°-80°	1545.0	9.1
80°-90°	156.5	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°	16957.0	100.0
0°-180°	16957.0	100.0

Coefficient of Utilization



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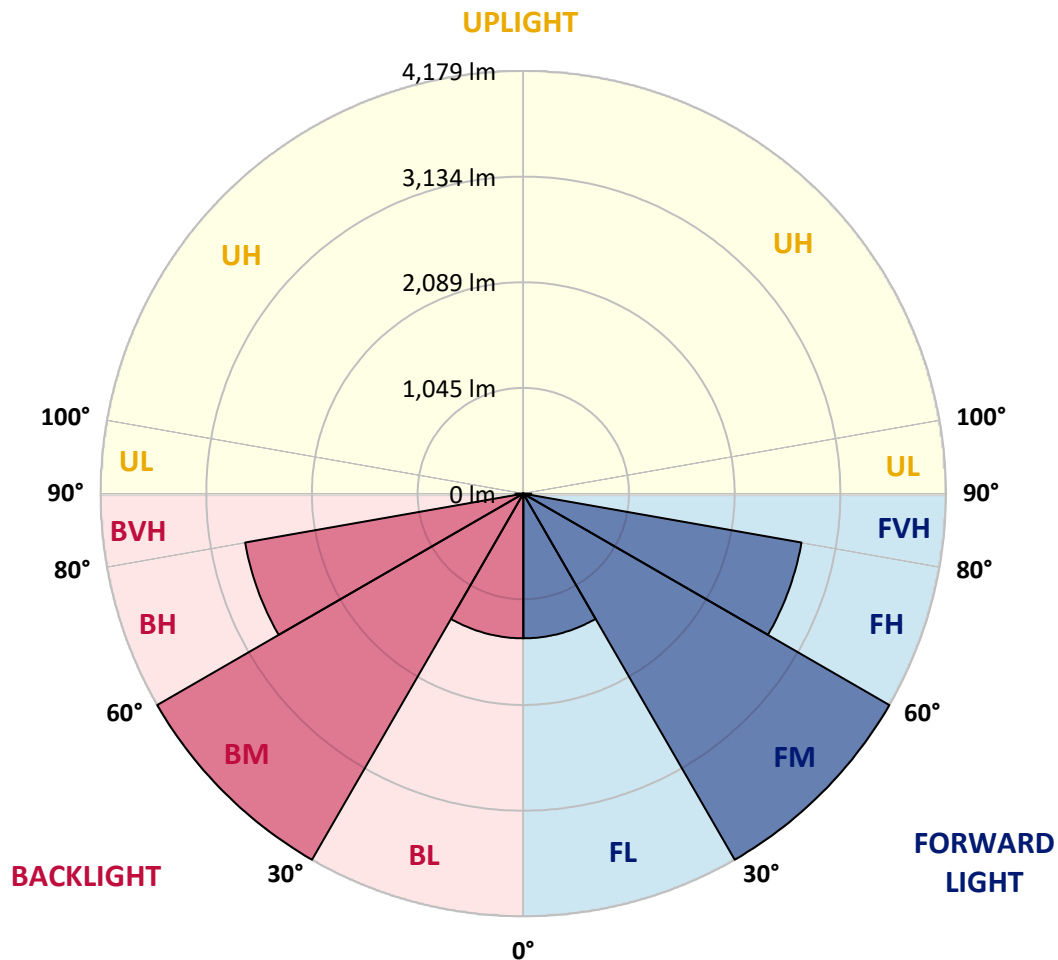
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1429.8	8.4			
FM	(30°-60°)	4178.7	24.6			
FH	(60°-80°)	2791.8	16.5			G2/5000
FVH	(80°-90°)	78.3	0.5			G1/100
BL	(0°-30°)	1429.8	8.4	B3/2500		
BM	(30°-60°)	4178.7	24.6	B3/5000		
BH	(60°-80°)	2791.8	16.5	B4/5000		G4/5000
BVH	(80°-90°)	78.3	0.5			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 I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3001.9	3001.9	3001.9	3001.9	3001.9	3001.9	3001.9	3001.9	3001.9	3001.9	3001.9
2.5°	3040.4	3038.5	3039.5	3038.5	3041.4	3039.5	3028.2	3018.8	3011.3	3012.2	3009.4
5°	3105.2	3106.1	3107.1	3102.4	3109.0	3105.2	3087.4	3072.3	3057.3	3051.7	3049.8
7.5°	3158.7	3163.4	3166.2	3170.9	3182.2	3182.2	3172.8	3151.2	3118.4	3099.6	3098.6
10°	3212.2	3216.0	3224.5	3239.5	3258.3	3276.1	3272.3	3243.2	3201.0	3169.1	3161.5
12.5°	3231.0	3235.7	3263.9	3307.1	3349.3	3384.1	3384.1	3360.6	3306.1	3257.3	3243.2
15°	3165.3	3173.8	3224.5	3316.5	3427.3	3503.3	3520.2	3487.4	3429.2	3354.0	3337.1
17.5°	3034.8	3055.4	3129.6	3265.8	3449.8	3607.6	3656.4	3640.4	3565.3	3469.5	3449.8
20°	2894.9	2917.4	2996.3	3176.6	3431.0	3668.6	3810.4	3814.1	3721.2	3582.2	3553.1
22.5°	2740.9	2757.8	2859.2	3070.5	3374.7	3682.7	3942.8	4007.6	3881.7	3694.9	3653.6
25°	2568.1	2586.9	2693.0	2921.2	3268.6	3666.7	4063.9	4206.6	4049.8	3815.1	3762.5
27.5°	2402.8	2410.4	2524.0	2755.9	3128.7	3625.4	4153.1	4389.7	4235.7	3914.6	3847.9
30°	2244.2	2262.0	2362.5	2591.6	2968.1	3544.6	4230.1	4598.2	4435.7	4018.8	3933.4
32.5°	2076.1	2097.7	2206.6	2438.5	2807.5	3423.5	4277.1	4826.4	4714.6	4187.8	4096.8
35°	1914.6	1928.7	2038.5	2263.9	2650.7	3282.7	4285.5	5083.6	5074.2	4444.2	4323.1
37.5°	1749.3	1770.0	1880.8	2096.7	2484.5	3133.4	4243.2	5356.9	5508.1	4800.1	4669.5
40°	1590.6	1608.5	1717.4	1935.2	2295.8	2951.2	4142.8	5606.6	6014.2	5166.3	4981.3
42.5°	1417.9	1422.6	1541.8	1763.4	2110.8	2739.9	3998.2	5829.2	6578.5	5657.4	5427.3
45°	1221.6	1233.8	1344.6	1562.5	1898.6	2503.3	3801.9	6013.2	7294.0	6338.1	6024.5
47.5°	1025.4	1035.7	1137.1	1352.1	1666.7	2232.0	3499.6	6174.7	8028.3	7202.9	6791.6
50°	833.8	839.4	922.1	1112.7	1405.7	1946.5	3124.9	6226.4	8858.3	8427.3	7902.5
52.5°	659.2	667.6	730.5	879.8	1126.8	1609.4	2720.2	6098.7	9827.4	9879.0	9139.1
55°	534.3	537.1	584.0	693.9	880.8	1256.4	2232.0	5742.8	10869.6	11739.1	10795.4
57.5°	460.1	462.0	488.3	549.3	677.9	947.4	1731.5	5069.5	11805.8	13918.5	12705.3
60°	417.8	418.8	433.8	469.5	537.1	726.8	1240.4	4119.3	12729.7	16343.9	15079.1
62.5°	391.6	391.6	401.9	421.6	454.5	557.8	898.6	2971.9	13362.6	18804.9	18004.9
65°	366.2	366.2	373.7	387.8	405.6	456.3	663.9	1938.1	13346.7	20597.5	20947.7
67.5°	337.1	337.1	342.7	356.8	367.1	392.5	512.7	1269.5	11988.9	20558.0	22553.3
70°	302.4	302.4	309.9	322.1	330.5	346.5	404.7	868.6	8807.6	17553.3	20057.5
72.5°	267.6	268.5	273.2	285.4	292.0	301.4	336.2	608.5	5402.9	11952.3	14024.6
75°	229.1	231.0	235.7	247.9	253.5	257.3	283.6	433.8	2733.4	6444.2	7337.2
77.5°	185.0	188.7	191.6	204.7	208.5	214.1	233.8	313.6	1200.0	2315.5	2336.2
80°	135.2	139.9	148.4	160.6	163.4	167.1	178.4	222.5	543.7	1057.3	1148.4
82.5°	99.5	106.1	95.8	111.7	111.7	107.0	125.8	149.3	249.8	1047.0	1252.6
85°	54.5	55.4	49.8	57.3	61.0	60.1	66.7	73.2	121.1	698.6	720.2
87.5°	13.1	14.1	15.0	17.8	21.6	21.6	23.5	20.7	39.4	226.3	129.6
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)