

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: P452573

Luminaire Tested: **GALN-SA3C-740-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452573
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-740-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21653 lumens
Efficiency: N/A
Efficacy: 135.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

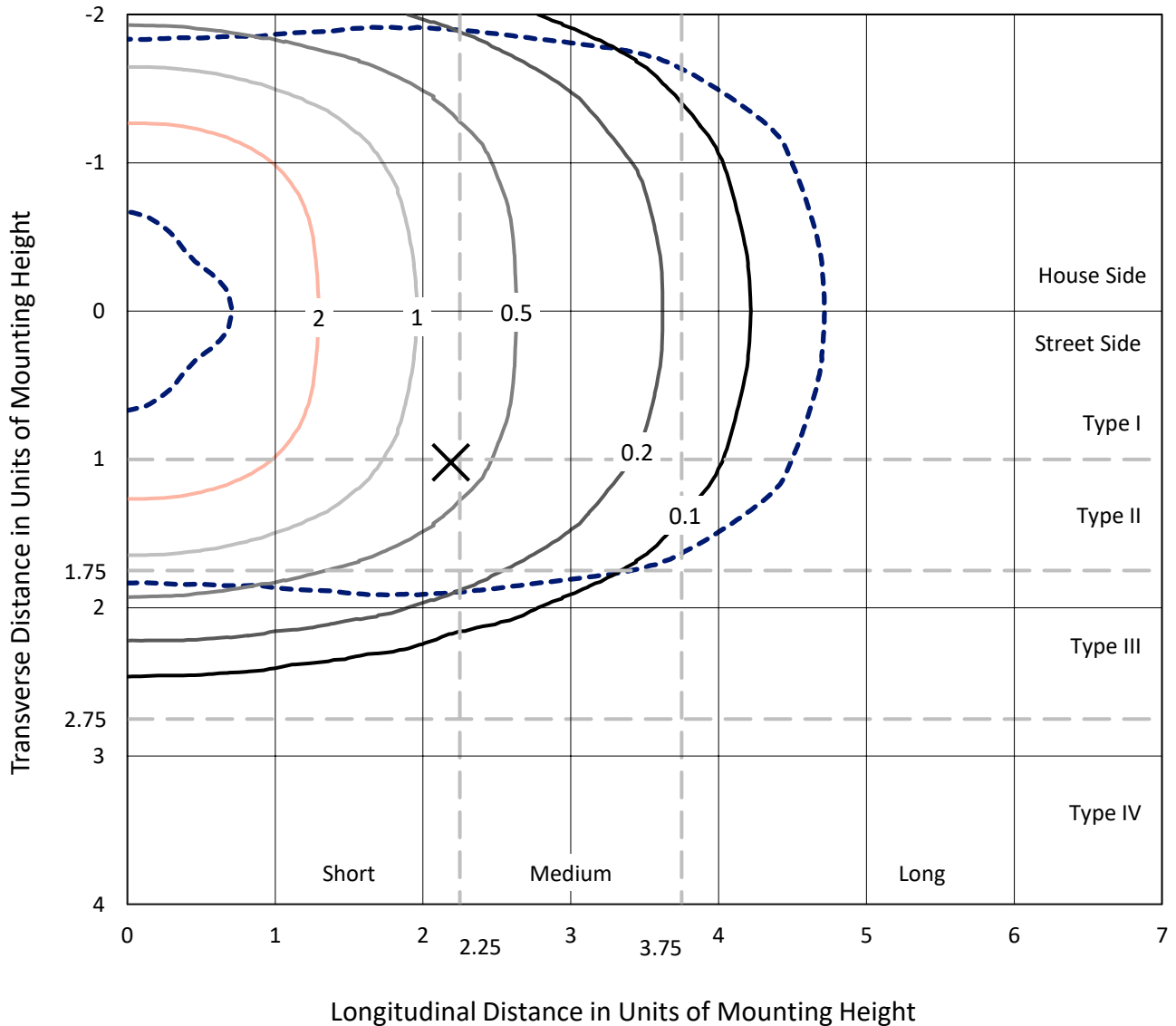
Input Watts (W): 160
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

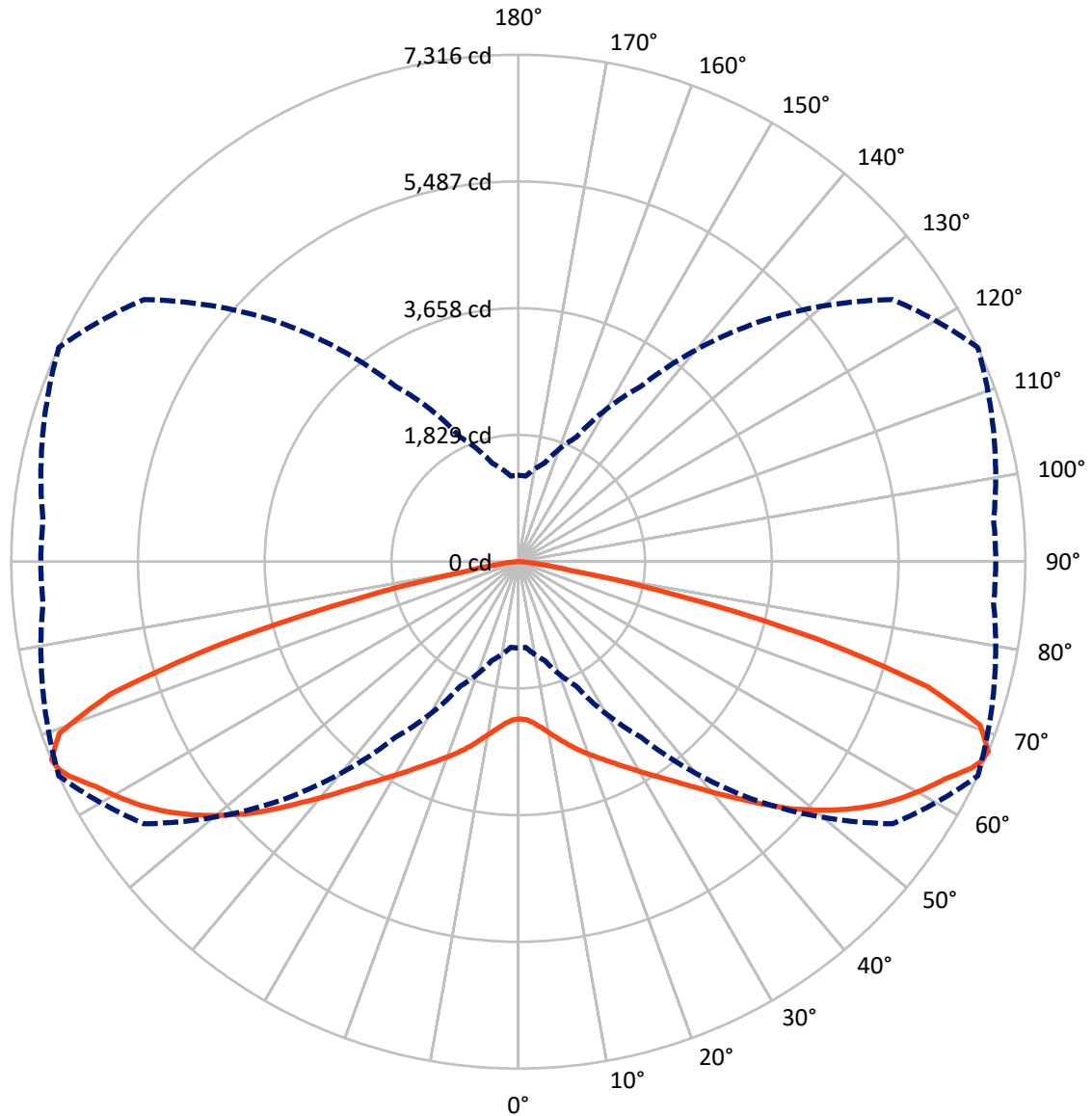
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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	10826.5	0.0	10826.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10826.5	0.0	10826.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	21653.0	0.0	21653.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.7	1.0
10°-20°	748.6	3.5
20°-30°	1464.4	6.8
30°-40°	2490.8	11.5
40°-50°	3942.1	18.2
50°-60°	5227.2	24.1
60°-70°	4930.8	22.8
70°-80°	2437.6	11.3
80°-90°	187.8	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°	21653.0	100.0
0°-180°	21653.0	100.0



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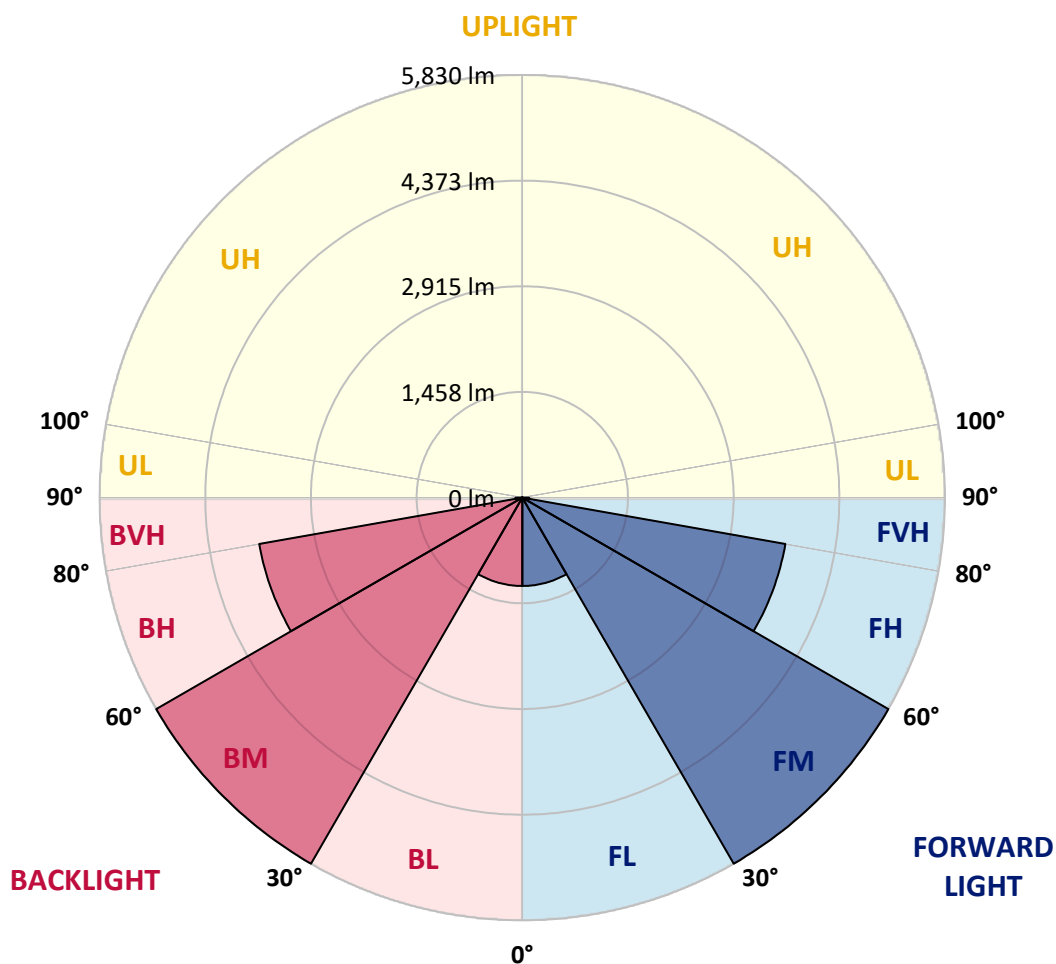
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1218.4	5.6			
FM	(30°-60°)	5830.0	26.9			
FH	(60°-80°)	3684.2	17.0			G2/5000
FVH	(80°-90°)	93.9	0.4			G1/100
BL	(0°-30°)	1218.4	5.6	B3/2500		
BM	(30°-60°)	5830.0	26.9	B4/8500		
BH	(60°-80°)	3684.2	17.0	B4/5000		G4/5000
BVH	(80°-90°)	93.9	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°	2268.0	2268.0	2268.0	2268.0	2268.0	2268.0	2268.0	2268.0	2268.0	2268.0	2268.0
2.5°	2256.4	2258.7	2261.0	2264.5	2269.1	2276.1	2280.7	2284.2	2293.5	2294.6	2293.5
5°	2248.2	2250.6	2256.4	2266.8	2281.9	2302.8	2319.0	2338.7	2353.8	2364.2	2361.9
7.5°	2247.1	2251.7	2261.0	2283.0	2312.0	2348.0	2385.1	2418.8	2447.8	2471.0	2467.5
10°	2265.6	2271.4	2286.5	2319.0	2364.2	2416.5	2468.7	2518.5	2560.3	2590.5	2600.9
12.5°	2297.0	2301.6	2329.4	2378.2	2443.1	2508.1	2567.3	2628.7	2686.8	2737.8	2737.8
15°	2351.5	2359.6	2394.4	2465.2	2545.2	2620.6	2681.0	2745.9	2808.6	2866.6	2884.0
17.5°	2426.9	2438.5	2490.7	2581.2	2683.3	2752.9	2809.7	2863.1	2917.6	2973.3	2981.4
20°	2530.1	2541.7	2611.3	2720.4	2841.0	2924.6	2962.8	2975.6	3002.3	3055.7	3062.6
22.5°	2670.5	2682.1	2759.8	2882.8	3017.4	3107.9	3124.1	3093.9	3087.0	3128.7	3133.4
25°	2829.4	2839.9	2929.2	3061.5	3200.7	3299.3	3294.6	3220.4	3178.6	3204.1	3211.1
27.5°	3008.1	3023.2	3113.7	3250.6	3401.4	3488.4	3474.4	3366.6	3277.2	3272.6	3274.9
30°	3236.6	3252.9	3338.7	3469.8	3618.3	3698.3	3669.3	3524.3	3386.3	3339.9	3339.9
32.5°	3477.9	3518.5	3605.5	3742.4	3858.4	3916.4	3872.4	3698.3	3515.0	3450.1	3446.6
35°	3792.3	3814.4	3900.2	4033.6	4120.6	4165.9	4081.2	3894.4	3683.3	3606.7	3596.3
37.5°	4099.7	4118.3	4218.1	4345.7	4451.2	4448.9	4334.1	4127.6	3892.1	3806.2	3799.3
40°	4414.1	4433.8	4547.5	4664.7	4770.3	4761.0	4621.8	4390.9	4140.3	4044.0	4062.6
42.5°	4686.7	4708.8	4837.5	5004.6	5099.7	5097.4	4936.1	4676.3	4415.3	4329.4	4345.7
45°	4935.0	4954.7	5104.4	5295.8	5435.0	5452.4	5276.1	5001.1	4733.1	4622.9	4627.6
47.5°	5110.2	5147.3	5303.9	5523.2	5712.2	5773.7	5600.9	5331.7	5023.2	4908.3	4915.3
50°	5243.6	5266.8	5437.3	5686.7	5925.7	6053.3	5914.1	5638.0	5313.2	5191.4	5207.6
52.5°	5259.8	5287.7	5473.3	5761.0	6067.2	6261.0	6192.5	5937.3	5609.0	5483.7	5518.5
55°	5127.6	5143.8	5365.4	5714.6	6122.9	6415.3	6432.7	6215.7	5890.9	5795.8	5819.0
57.5°	4750.5	4792.3	5073.0	5497.6	6046.3	6497.6	6612.5	6468.6	6176.3	6082.3	6119.4
60°	4132.2	4174.0	4455.9	4994.2	5757.5	6459.3	6761.0	6692.5	6435.0	6359.6	6379.3
62.5°	3237.8	3234.3	3583.5	4243.6	5183.2	6271.4	6871.2	6908.3	6690.2	6595.1	6625.2
65°	2098.6	2109.0	2446.6	3157.7	4316.7	5793.5	6895.5	7183.2	6940.8	6796.9	6819.0
66°	1687.9	1719.2	2005.8	2661.2	3874.7	5480.2	6822.4	7264.4	7017.3	6843.3	6853.8
67.5°	1245.9	1240.1	1475.6	1981.4	3093.9	4885.1	6593.9	7315.5	7104.3	6885.1	6889.7
70°	711.1	710.0	793.5	1088.2	1819.0	3439.6	5558.0	7070.7	7280.7	7035.9	7023.1
72.5°	519.7	516.2	527.8	600.9	887.5	1736.6	3834.1	6179.8	7190.2	7011.5	6975.6
75°	436.2	433.9	431.6	440.8	497.7	786.5	2034.8	4445.4	6238.9	6581.1	6544.0
77.5°	356.1	356.1	357.3	355.0	357.3	414.1	843.4	2382.8	3799.3	4241.3	4344.5
80°	278.4	277.3	297.0	288.9	270.3	265.7	373.5	766.8	1261.0	1254.0	1034.8
82.5°	205.3	191.4	226.2	220.4	199.5	169.4	218.1	327.1	421.1	273.8	203.0
85°	129.9	128.8	160.1	146.2	121.8	80.0	104.4	140.4	174.0	105.6	85.8
87.5°	23.2	22.0	51.0	37.1	37.1	23.2	29.0	38.3	56.8	39.4	29.0
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)