

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: P453269

Luminaire Tested: **GALN-SA4B-740-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453269
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-SA4B-740-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23224 lumens
Efficiency: N/A
Efficacy: 141.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

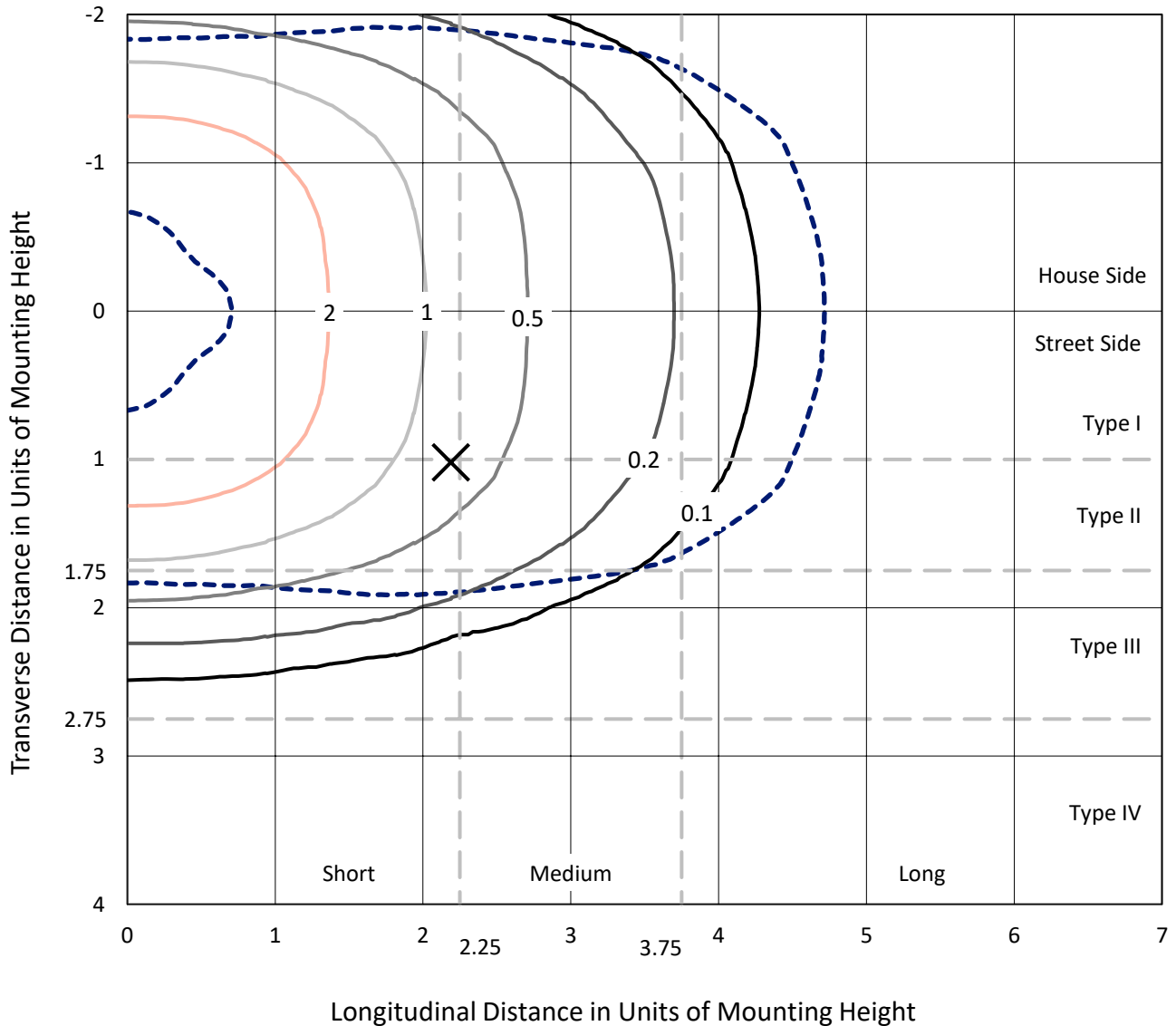
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

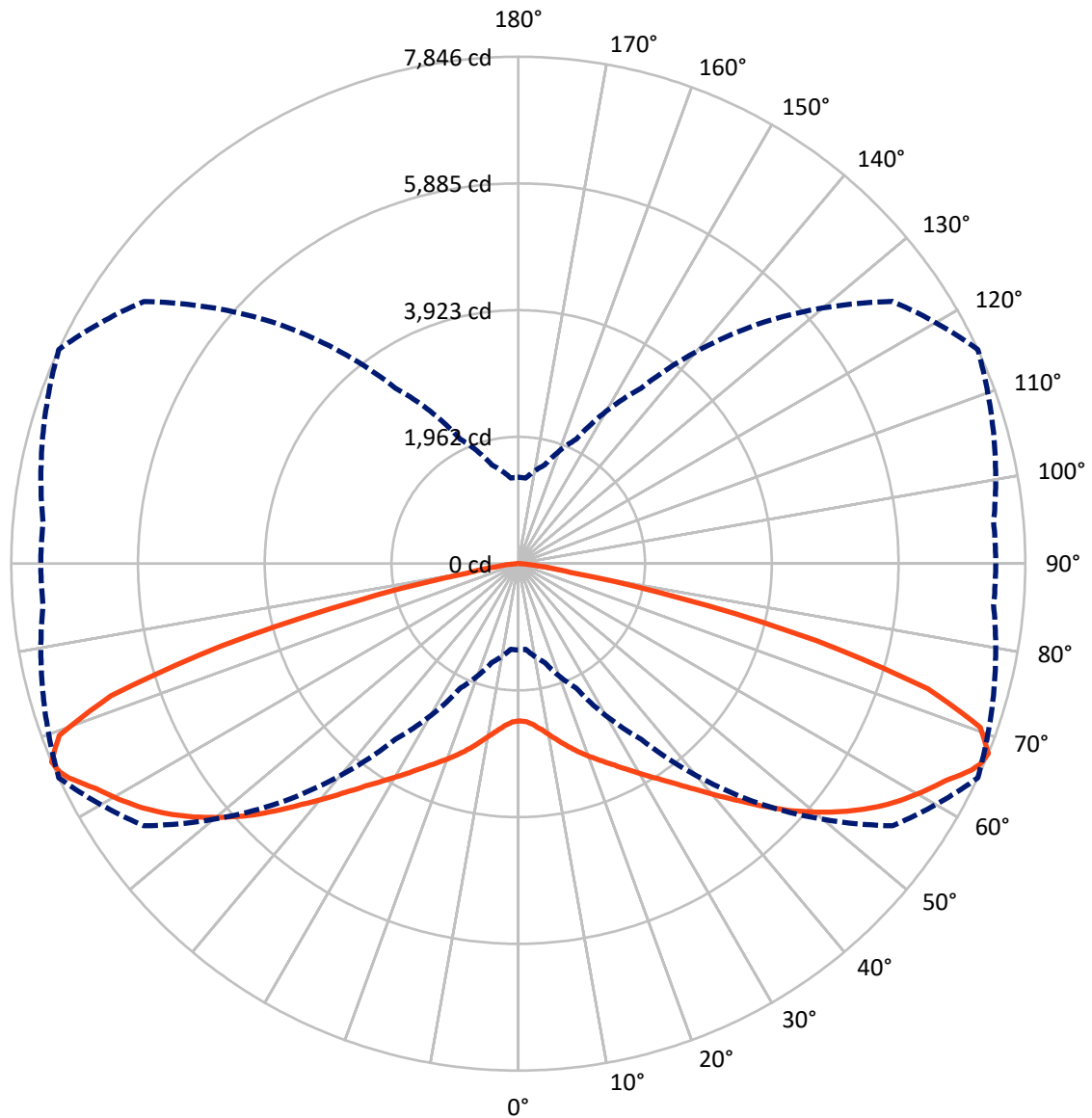
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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	11612.0	0.0	11612.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11612.0	0.0	11612.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	23224.0	0.0	23224.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.9	1.0
10°-20°	803.0	3.5
20°-30°	1570.6	6.8
30°-40°	2671.5	11.5
40°-50°	4228.1	18.2
50°-60°	5606.4	24.1
60°-70°	5288.6	22.8
70°-80°	2614.4	11.3
80°-90°	201.5	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°	23224.0	100.0
0°-180°	23224.0	100.0

Coefficient of Utilization



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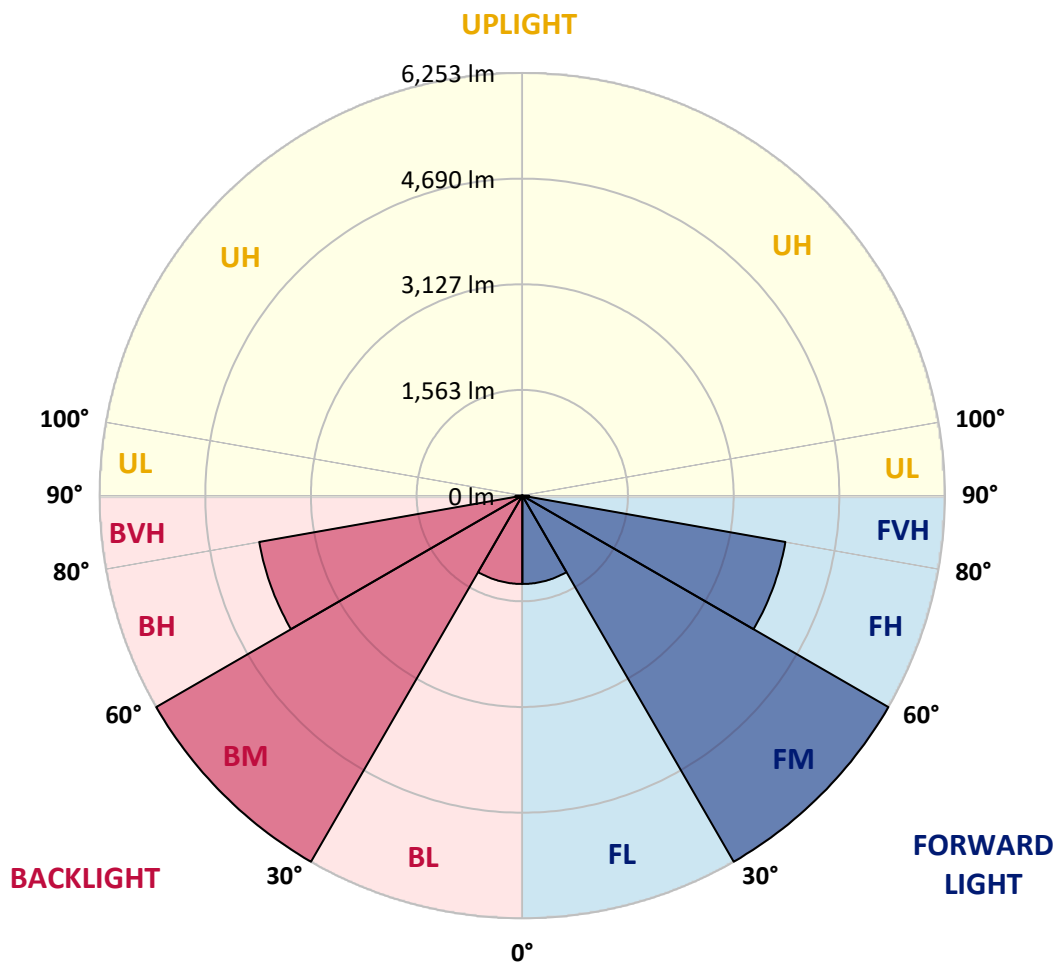
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1306.8	5.6			
FM	(30°-60°)	6253.0	26.9			
FH	(60°-80°)	3951.5	17.0			G2/5000
FVH	(80°-90°)	100.7	0.4			G2/225
BL	(0°-30°)	1306.8	5.6	B3/2500		
BM	(30°-60°)	6253.0	26.9	B4/8500		
BH	(60°-80°)	3951.5	17.0	B4/5000		G4/5000
BVH	(80°-90°)	100.7	0.4			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2432.5	2432.5	2432.5	2432.5	2432.5	2432.5	2432.5	2432.5	2432.5	2432.5	2432.5
2.5°	2420.1	2422.6	2425.0	2428.8	2433.8	2441.2	2446.2	2449.9	2459.9	2461.1	2459.9
5°	2411.4	2413.8	2420.1	2431.3	2447.4	2469.8	2487.3	2508.4	2524.6	2535.8	2533.3
7.5°	2410.1	2415.1	2425.0	2448.7	2479.8	2518.4	2558.2	2594.3	2625.4	2650.3	2646.5
10°	2430.0	2436.2	2452.4	2487.3	2535.8	2591.8	2647.8	2701.3	2746.1	2778.4	2789.6
12.5°	2463.6	2468.6	2498.5	2550.7	2620.4	2690.1	2753.5	2819.5	2881.7	2936.4	2936.4
15°	2522.1	2530.8	2568.1	2644.0	2729.9	2810.8	2875.5	2945.1	3012.3	3074.5	3093.2
17.5°	2603.0	2615.4	2671.4	2768.5	2878.0	2952.6	3013.6	3070.8	3129.3	3189.0	3197.7
20°	2713.7	2726.2	2800.8	2917.8	3047.2	3136.8	3177.8	3191.5	3220.1	3277.4	3284.8
22.5°	2864.3	2876.7	2960.1	3092.0	3236.3	3333.3	3350.8	3318.4	3310.9	3355.7	3360.7
25°	3034.7	3045.9	3141.7	3283.6	3432.9	3538.6	3533.7	3454.0	3409.2	3436.6	3444.1
27.5°	3226.3	3242.5	3339.6	3486.4	3648.1	3741.5	3726.5	3610.8	3515.0	3510.0	3512.5
30°	3471.5	3488.9	3581.0	3721.6	3880.8	3966.7	3935.6	3780.0	3632.0	3582.2	3582.2
32.5°	3730.3	3773.8	3867.1	4014.0	4138.4	4200.6	4153.3	3966.7	3770.1	3700.4	3696.7
35°	4067.5	4091.1	4183.2	4326.3	4419.6	4468.1	4377.3	4176.9	3950.5	3868.4	3857.2
37.5°	4397.2	4417.1	4524.1	4661.0	4774.2	4771.7	4648.5	4427.0	4174.5	4082.4	4074.9
40°	4734.4	4755.5	4877.5	5003.1	5116.4	5106.4	4957.1	4709.5	4440.7	4337.5	4357.4
42.5°	5026.8	5050.4	5188.5	5367.7	5469.7	5467.2	5294.3	5015.6	4735.6	4643.5	4661.0
45°	5293.0	5314.2	5474.7	5680.0	5829.3	5848.0	5658.8	5364.0	5076.5	4958.3	4963.3
47.5°	5480.9	5520.7	5688.7	5923.9	6126.7	6192.6	6007.2	5718.6	5387.6	5264.4	5271.9
50°	5624.0	5648.9	5831.8	6099.3	6355.6	6492.5	6343.2	6047.1	5698.7	5568.0	5585.4
52.5°	5641.4	5671.3	5870.4	6178.9	6507.4	6715.2	6641.8	6368.1	6015.9	5881.6	5918.9
55°	5499.6	5517.0	5754.7	6129.2	6567.2	6880.7	6899.4	6666.7	6318.3	6216.3	6241.2
57.5°	5095.2	5140.0	5441.1	5896.5	6485.0	6969.0	7092.2	6937.9	6624.4	6523.6	6563.4
60°	4432.0	4476.8	4779.2	5356.5	6175.2	6928.0	7251.5	7178.1	6901.9	6821.0	6842.1
62.5°	3472.7	3469.0	3843.5	4551.5	5559.3	6726.4	7369.7	7409.5	7175.6	7073.6	7105.9
65°	2250.8	2262.0	2624.1	3386.8	4629.9	6213.8	7395.8	7704.4	7444.3	7290.1	7313.7
66°	1810.4	1844.0	2151.3	2854.3	4155.8	5877.8	7317.4	7791.5	7526.5	7339.8	7351.0
67.5°	1336.3	1330.1	1582.7	2125.2	3318.4	5239.5	7072.3	7846.2	7619.8	7384.6	7389.6
70°	762.7	761.5	851.1	1167.1	1951.0	3689.2	5961.2	7583.7	7808.9	7546.4	7532.7
72.5°	557.4	553.7	566.1	644.5	951.9	1862.6	4112.2	6628.1	7711.9	7520.2	7481.7
75°	467.8	465.3	462.9	472.8	533.8	843.6	2182.4	4768.0	6691.6	7058.6	7018.8
77.5°	382.0	382.0	383.2	380.7	383.2	444.2	904.6	2555.7	4074.9	4549.0	4659.7
80°	298.6	297.4	318.5	309.8	289.9	284.9	400.6	822.4	1352.5	1345.0	1109.9
82.5°	220.2	205.3	242.6	236.4	214.0	181.7	233.9	350.9	451.7	293.6	217.7
85°	139.4	138.1	171.7	156.8	130.6	85.9	112.0	150.6	186.6	113.2	92.1
87.5°	24.9	23.6	54.7	39.8	39.8	24.9	31.1	41.1	61.0	42.3	31.1
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)