

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: P452805

Luminaire Tested: **GALN-SA3D-740-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452805
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-SA3D-740-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23826 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

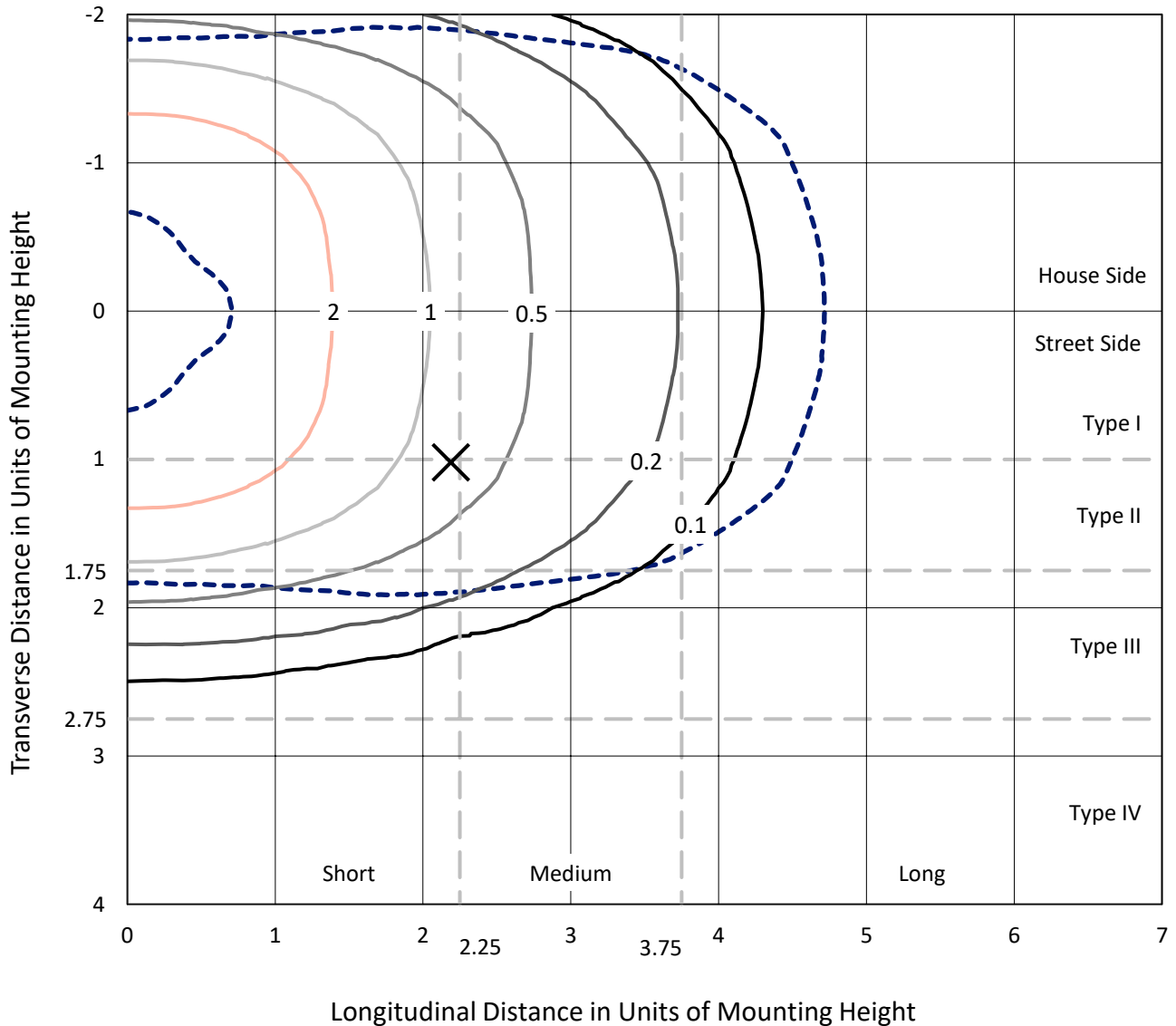
Input Watts (W): 184
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

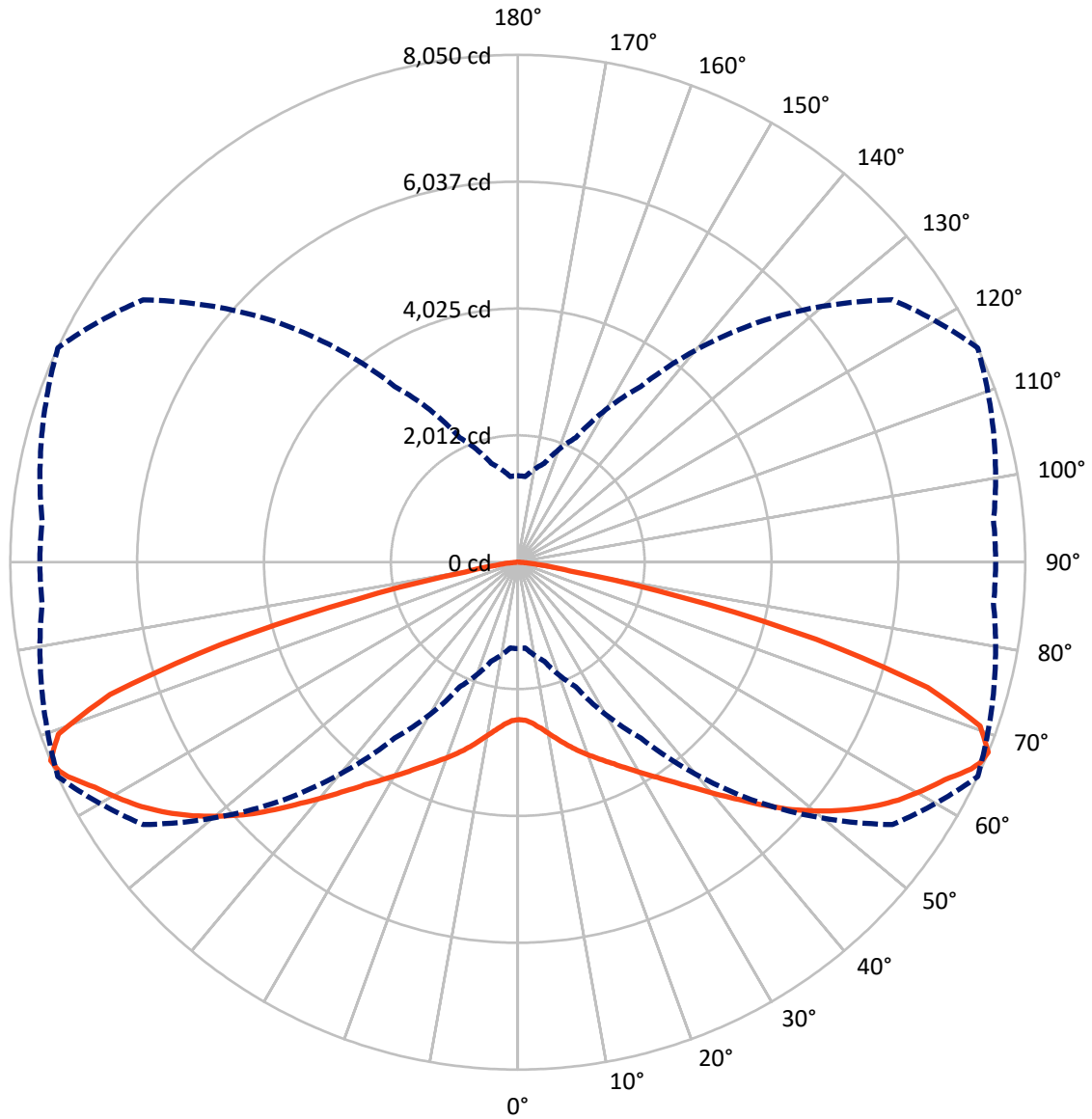
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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	11913.0	0.0	11913.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11913.0	0.0	11913.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	23826.0	0.0	23826.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.1	1.0
10°-20°	823.8	3.5
20°-30°	1611.4	6.8
30°-40°	2740.7	11.5
40°-50°	4337.7	18.2
50°-60°	5751.7	24.1
60°-70°	5425.7	22.8
70°-80°	2682.2	11.3
80°-90°	206.7	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°	23826.0	100.0
0°-180°	23826.0	100.0

Coefficient of Utilization



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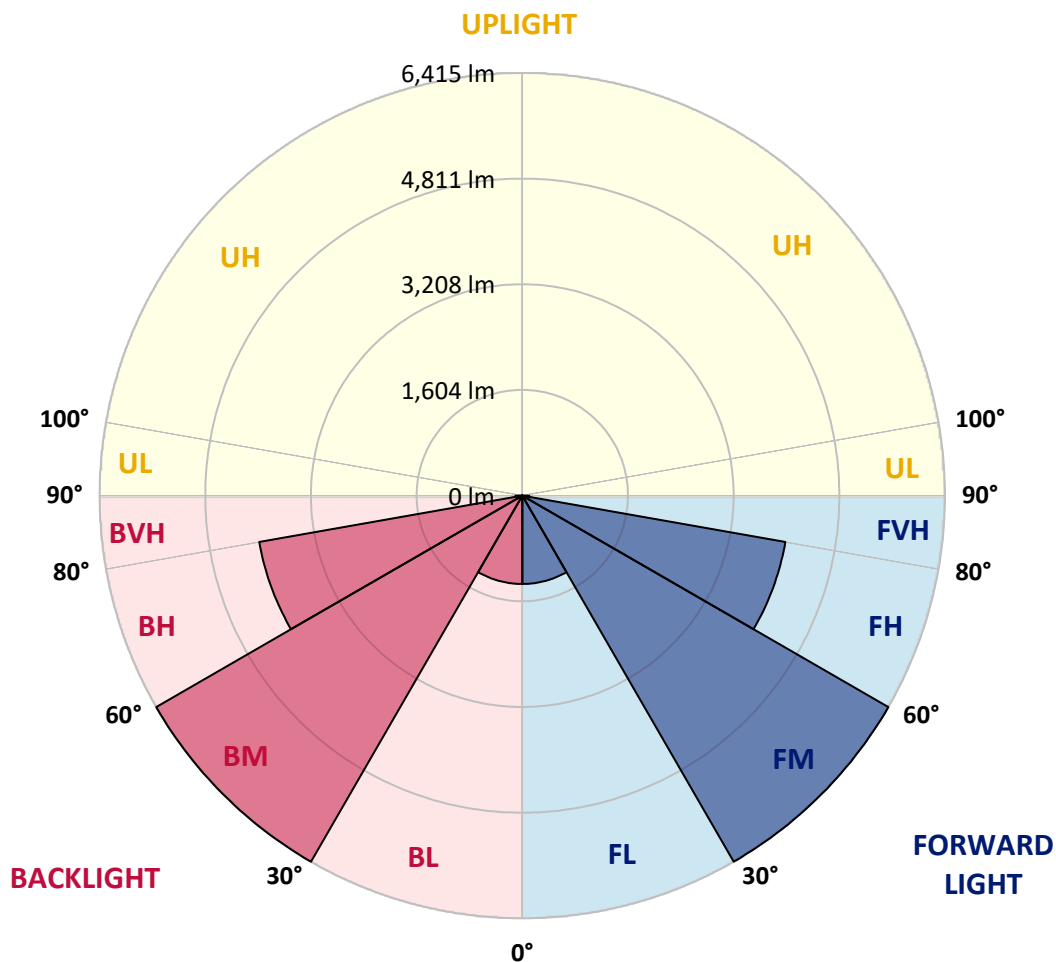
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1340.6	5.6			
FM	(30°-60°)	6415.1	26.9			
FH	(60°-80°)	4053.9	17.0			G2/5000
FVH	(80°-90°)	103.4	0.4			G2/225
BL	(0°-30°)	1340.6	5.6	B3/2500		
BM	(30°-60°)	6415.1	26.9	B4/8500		
BH	(60°-80°)	4053.9	17.0	B4/5000		G4/5000
BVH	(80°-90°)	103.4	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°	2495.6	2495.6	2495.6	2495.6	2495.6	2495.6	2495.6	2495.6	2495.6	2495.6	2495.6
2.5°	2482.8	2485.4	2487.9	2491.7	2496.8	2504.5	2509.6	2513.4	2523.6	2524.9	2523.6
5°	2473.9	2476.4	2482.8	2494.3	2510.9	2533.9	2551.7	2573.4	2590.0	2601.5	2599.0
7.5°	2472.6	2477.7	2487.9	2512.2	2544.1	2583.6	2624.5	2661.5	2693.4	2719.0	2715.1
10°	2493.0	2499.4	2516.0	2551.7	2601.5	2659.0	2716.4	2771.3	2817.2	2850.4	2861.9
12.5°	2527.5	2532.6	2563.2	2616.8	2688.3	2759.8	2824.9	2892.6	2956.4	3012.5	3012.5
15°	2587.5	2596.4	2634.7	2712.6	2800.6	2883.6	2950.0	3021.5	3090.4	3154.2	3173.4
17.5°	2670.4	2683.2	2740.7	2840.2	2952.6	3029.1	3091.7	3150.4	3210.4	3271.7	3280.6
20°	2784.1	2796.8	2873.4	2993.4	3126.2	3218.1	3260.2	3274.2	3303.6	3362.3	3370.0
22.5°	2938.5	2951.3	3036.8	3172.1	3320.2	3419.8	3437.6	3404.4	3396.8	3442.7	3447.8
25°	3113.4	3124.9	3223.2	3368.7	3521.9	3630.4	3625.3	3543.6	3497.6	3525.7	3533.4
27.5°	3310.0	3326.6	3426.1	3576.8	3742.7	3838.4	3823.1	3704.4	3606.1	3601.0	3603.6
30°	3561.4	3579.3	3673.8	3818.0	3981.4	4069.5	4037.6	3878.0	3726.1	3675.1	3675.1
32.5°	3827.0	3871.6	3967.4	4118.0	4245.6	4309.5	4261.0	4069.5	3867.8	3796.3	3792.5
35°	4172.9	4197.1	4291.6	4438.4	4534.1	4583.9	4490.7	4285.2	4052.9	3968.6	3957.2
37.5°	4511.2	4531.6	4641.4	4781.8	4897.9	4895.4	4769.0	4541.8	4282.7	4188.2	4180.5
40°	4857.1	4878.8	5003.9	5132.8	5249.0	5238.8	5085.6	4831.6	4555.8	4449.9	4470.3
42.5°	5157.1	5181.3	5323.0	5506.8	5611.5	5609.0	5431.5	5145.6	4858.4	4763.9	4781.8
45°	5430.2	5451.9	5616.6	5827.2	5980.4	5999.6	5805.5	5503.0	5208.1	5086.9	5092.0
47.5°	5623.0	5663.8	5836.2	6077.4	6285.5	6353.2	6163.0	5866.8	5527.3	5400.9	5408.5
50°	5769.8	5795.3	5983.0	6257.4	6520.4	6660.8	6507.6	6203.8	5846.4	5712.4	5730.2
52.5°	5787.7	5818.3	6022.5	6339.1	6676.1	6889.3	6814.0	6533.1	6171.9	6034.0	6072.3
55°	5642.1	5660.0	5903.8	6288.1	6737.4	7059.1	7078.2	6839.5	6482.1	6377.4	6402.9
57.5°	5227.3	5273.2	5582.1	6049.3	6653.1	7149.7	7276.1	7117.8	6796.1	6692.7	6733.6
60°	4546.9	4592.9	4903.0	5495.3	6335.3	7107.6	7439.5	7364.1	7080.8	6997.8	7019.5
62.5°	3562.7	3558.9	3943.1	4669.4	5703.4	6900.8	7560.7	7601.6	7361.6	7256.9	7290.1
65°	2309.2	2320.7	2692.1	3474.6	4749.9	6374.9	7587.5	7904.1	7637.3	7479.0	7503.3
66°	1857.3	1891.8	2207.1	2928.3	4263.5	6030.2	7507.1	7993.5	7721.6	7530.1	7541.6
67.5°	1371.0	1364.6	1623.7	2180.3	3404.4	5375.4	7255.6	8049.6	7817.3	7576.0	7581.2
70°	782.5	781.2	873.1	1197.4	2001.6	3784.8	6115.7	7780.3	8011.3	7742.0	7727.9
72.5°	571.9	568.0	580.8	661.2	976.5	1910.9	4218.8	6799.9	7911.8	7715.2	7675.6
75°	480.0	477.4	474.9	485.1	547.6	865.5	2239.0	4891.6	6865.0	7241.6	7200.8
77.5°	391.9	391.9	393.2	390.6	393.2	455.7	928.0	2621.9	4180.5	4666.9	4780.5
80°	306.4	305.1	326.8	317.8	297.4	292.3	411.0	843.8	1387.6	1379.9	1138.6
82.5°	225.9	210.6	248.9	242.5	219.6	186.4	240.0	360.0	463.4	301.3	223.4
85°	143.0	141.7	176.2	160.8	134.0	88.1	114.9	154.5	191.5	116.2	94.5
87.5°	25.5	24.3	56.2	40.8	40.8	25.5	31.9	42.1	62.5	43.4	31.9
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)