

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: P528802

Luminaire Tested: **GALN-SA3D-830-U-RW-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528802
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-830-U-RW-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16079 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): 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

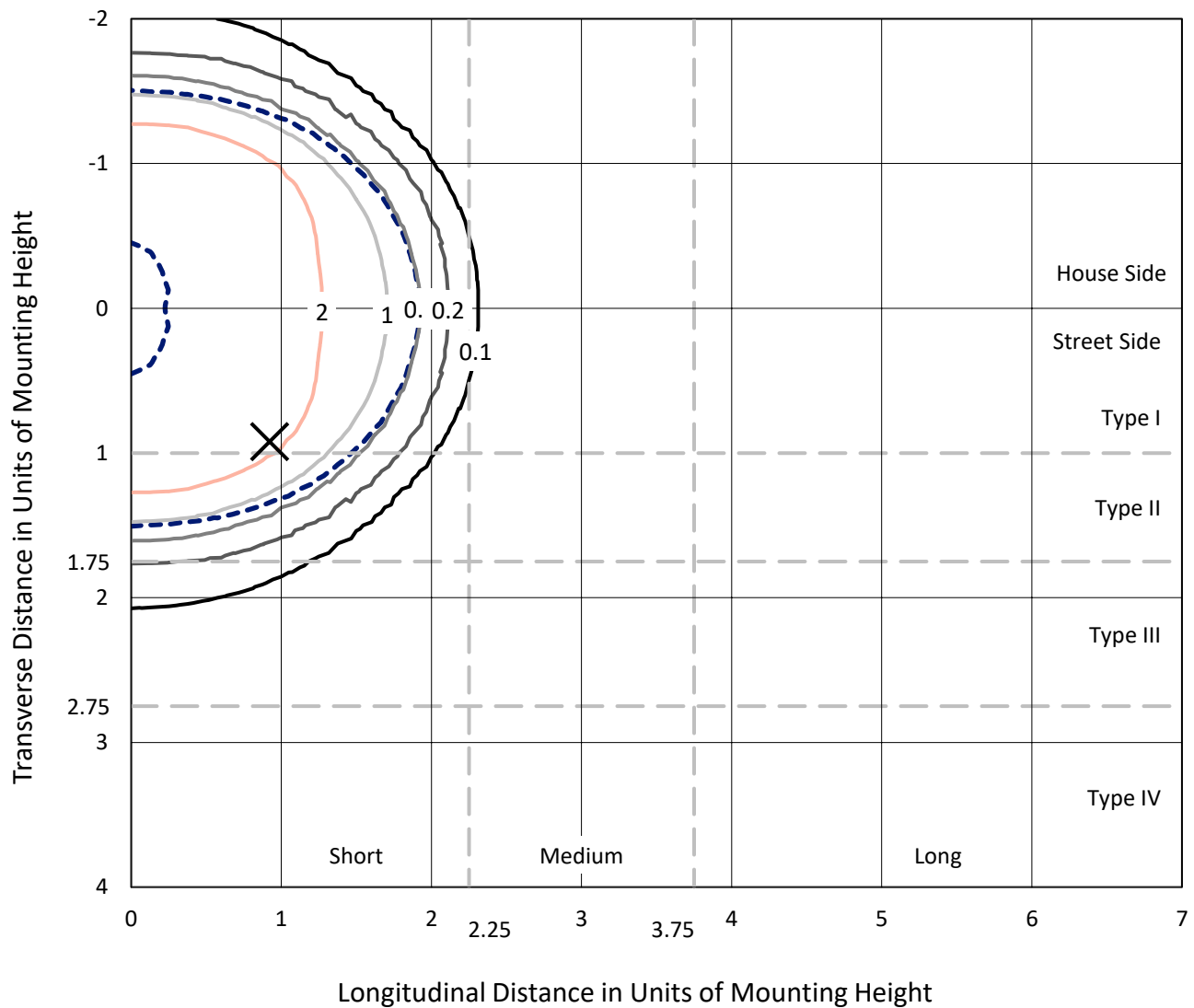


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

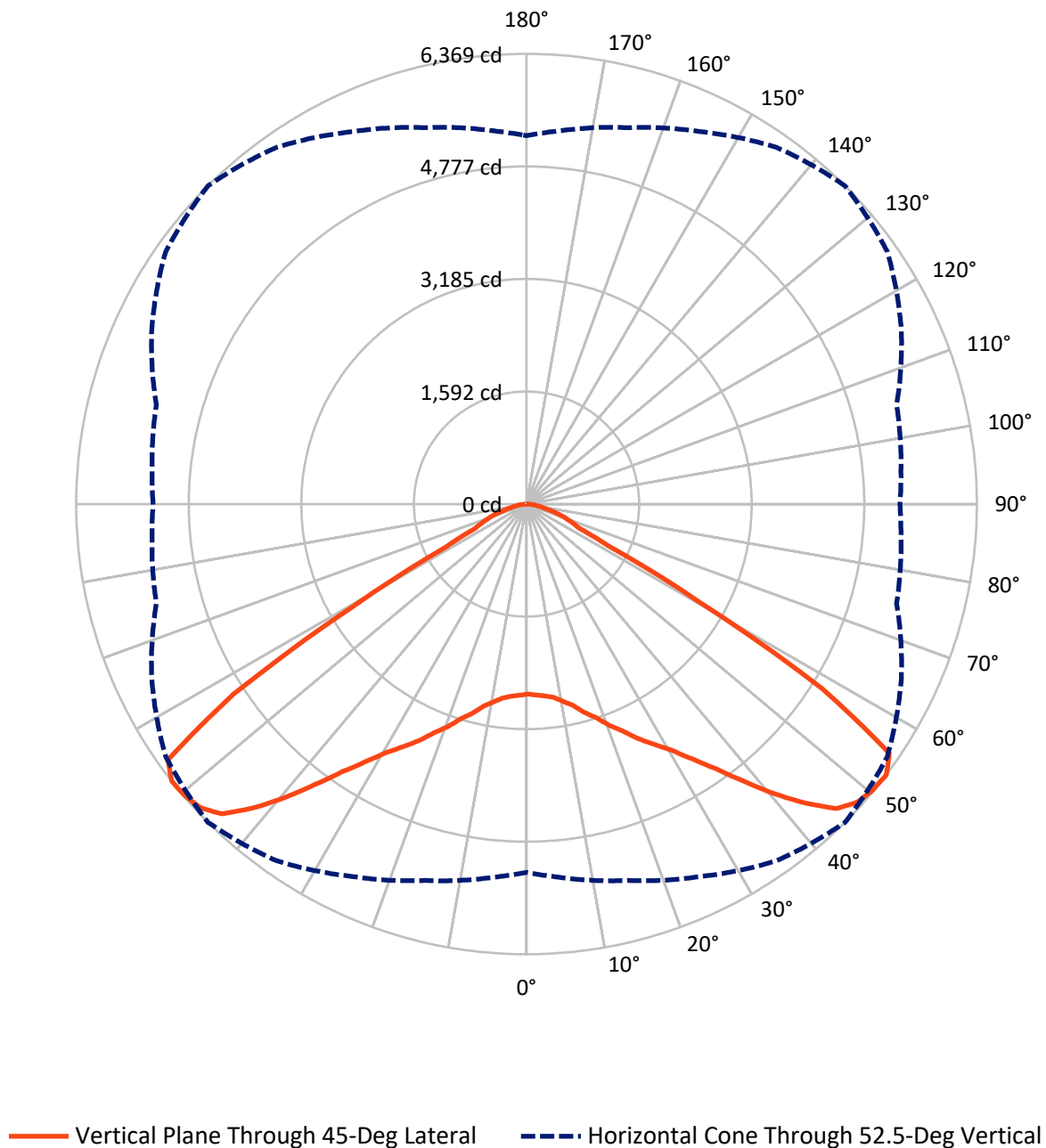


Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8039.5	0.0	8039.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8039.5	0.0	8039.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	16079.0	0.0	16079.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.1	1.6
10°-20°	867.7	5.4
20°-30°	1652.0	10.3
30°-40°	2836.6	17.6
40°-50°	4360.0	27.1
50°-60°	4427.5	27.5
60°-70°	1233.9	7.7
70°-80°	364.0	2.3
80°-90°	73.3	0.5
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°	16079.0	100.0
0°-180°	16079.0	100.0

Coefficient of Utilization



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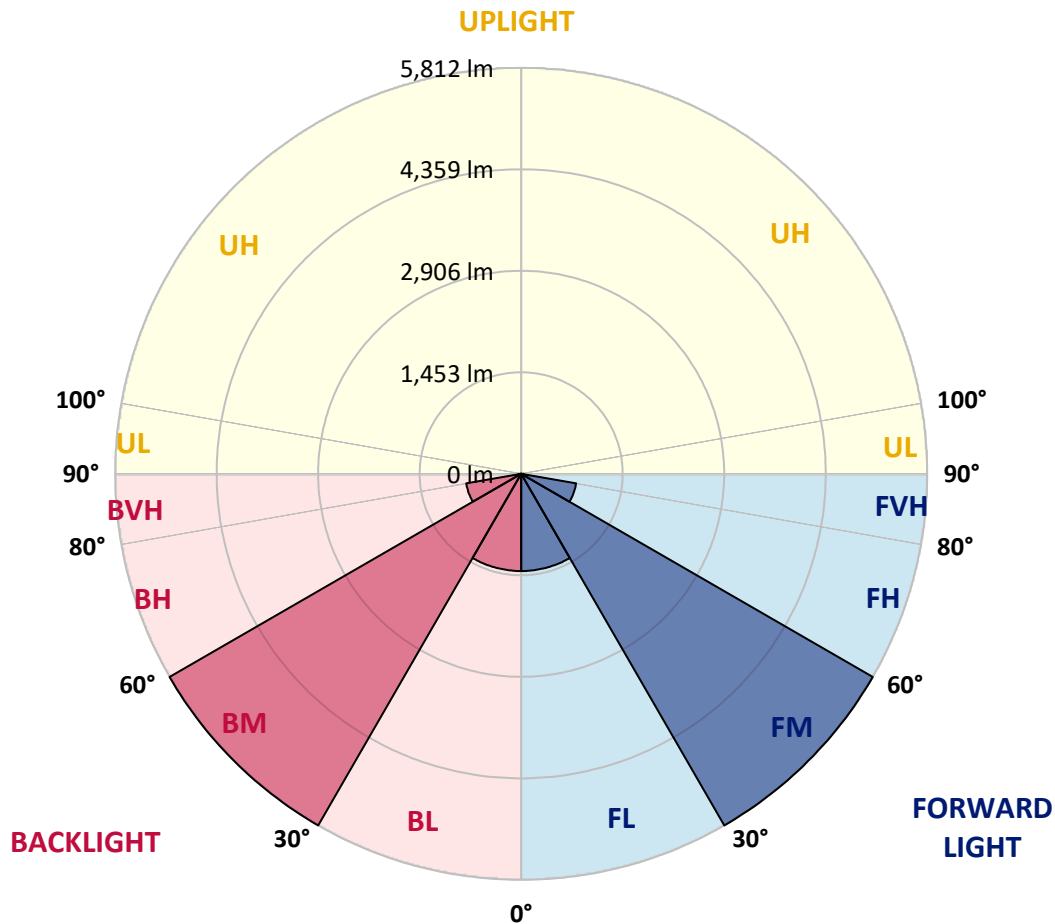
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1391.9	8.7			
FM	(30°-60°)	5812.0	36.1			
FH	(60°-80°)	798.9	5.0			G1/1800
FVH	(80°-90°)	36.7	0.2			G1/100
BL	(0°-30°)	1391.9	8.7	B3/2500		
BM	(30°-60°)	5812.0	36.1	B4/8500		
BH	(60°-80°)	798.9	5.0	B2/1000		G1/1800
BVH	(80°-90°)	36.7	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2687.8	2687.8	2687.8	2687.8	2687.8	2687.8	2687.8	2687.8	2687.8	2687.8	2687.8
2.5°	2693.8	2665.9	2675.8	2681.8	2707.8	2705.8	2699.8	2707.8	2715.8	2717.7	2713.8
5°	2691.8	2671.9	2679.8	2685.8	2711.8	2725.7	2721.7	2755.7	2779.6	2773.6	2803.6
7.5°	2675.8	2687.8	2677.8	2707.8	2729.7	2763.6	2799.6	2831.5	2861.4	2895.3	2901.3
10°	2711.8	2711.8	2729.7	2753.7	2811.5	2837.5	2889.4	2935.2	2993.1	3033.0	3017.1
12.5°	2749.7	2755.7	2755.7	2817.5	2865.4	2923.3	2971.2	3033.0	3114.8	3162.7	3186.7
15°	2787.6	2791.6	2811.5	2895.3	2967.2	3059.0	3102.9	3158.7	3204.6	3294.4	3296.4
17.5°	2821.5	2843.5	2903.3	2997.1	3086.9	3174.7	3244.5	3302.4	3342.3	3378.2	3370.2
20°	2949.2	2965.2	3027.0	3120.8	3254.5	3340.3	3364.3	3374.2	3400.2	3472.0	3450.1
22.5°	3072.9	3078.9	3136.8	3280.5	3374.2	3488.0	3513.9	3507.9	3517.9	3535.9	3567.8
25°	3200.6	3210.6	3290.4	3412.2	3543.8	3679.5	3701.5	3655.6	3641.6	3661.6	3663.6
27.5°	3364.3	3366.3	3468.0	3573.8	3723.4	3851.1	3885.1	3849.1	3783.3	3799.3	3825.2
30°	3571.8	3557.8	3659.6	3811.2	3968.9	4040.7	4098.6	4080.6	4008.8	3994.8	3972.9
32.5°	3811.2	3815.2	3907.0	4072.6	4176.4	4296.1	4358.0	4328.0	4282.1	4258.2	4272.2
35°	4148.5	4166.4	4228.3	4366.0	4533.6	4593.4	4691.2	4627.4	4507.6	4537.6	4563.5
37.5°	4425.8	4477.7	4593.4	4757.1	4856.8	4966.6	5002.5	4916.7	4828.9	4793.0	4878.8
40°	4850.8	4834.9	4962.6	5126.2	5273.9	5383.6	5337.7	5251.9	5034.4	5036.4	5060.4
42.5°	5216.0	5224.0	5321.8	5517.3	5718.8	5786.7	5641.0	5431.5	5190.1	5164.1	5216.0
45°	5523.3	5555.2	5611.1	5872.5	6070.0	6143.9	5874.5	5627.1	5303.8	5196.0	5281.8
47.5°	5633.0	5684.9	5806.6	6046.1	6241.6	6301.5	6086.0	5730.8	5409.6	5234.0	5279.9
50°	5649.0	5631.0	5830.6	6050.1	6221.7	6351.4	6161.8	5806.6	5383.6	5291.8	5277.9
52.5°	5212.0	5299.8	5513.3	5814.6	6161.8	6369.3	6229.7	5848.5	5419.5	5315.8	5281.8
55°	4218.3	4114.5	4503.6	5010.5	5649.0	6225.7	6205.7	5870.5	5441.5	5355.7	5309.8
57.5°	2354.6	2384.5	2604.0	3154.7	3978.8	4936.6	5517.3	5639.0	5431.5	5381.6	5405.6
60°	1089.5	1099.5	1193.3	1450.7	1961.5	2799.6	3563.8	4340.0	4697.2	4769.0	4769.0
62.5°	812.1	808.1	832.1	878.0	985.7	1287.0	1718.0	2334.6	2825.5	3168.7	3258.5
65°	734.3	732.3	744.3	760.3	768.2	810.1	905.9	1095.5	1255.1	1346.9	1330.9
67.5°	642.5	640.5	644.5	654.5	668.5	690.4	714.4	754.3	810.1	806.1	796.2
70°	518.8	518.8	524.8	532.8	548.7	574.7	602.6	630.5	678.4	688.4	686.4
72.5°	383.1	377.1	389.1	405.1	421.0	453.0	482.9	508.8	542.8	552.7	548.7
75°	243.4	247.4	255.4	273.4	301.3	323.3	355.2	377.1	399.1	407.1	409.1
77.5°	135.7	139.7	153.6	175.6	203.5	227.5	255.4	273.4	287.3	289.3	291.3
80°	81.8	83.8	97.8	117.7	141.7	167.6	189.6	207.5	219.5	213.5	211.5
82.5°	49.9	51.9	63.9	81.8	101.8	121.7	145.7	161.6	173.6	165.6	157.6
85°	25.9	27.9	37.9	49.9	65.8	75.8	75.8	67.8	65.8	61.9	59.9
87.5°	8.0	8.0	10.0	12.0	10.0	12.0	14.0	16.0	16.0	18.0	16.0
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)