

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: P452858

Luminaire Tested: **GALN-SA3D-760-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452858
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-760-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24221 lumens
Efficiency: N/A
Efficacy: 131.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

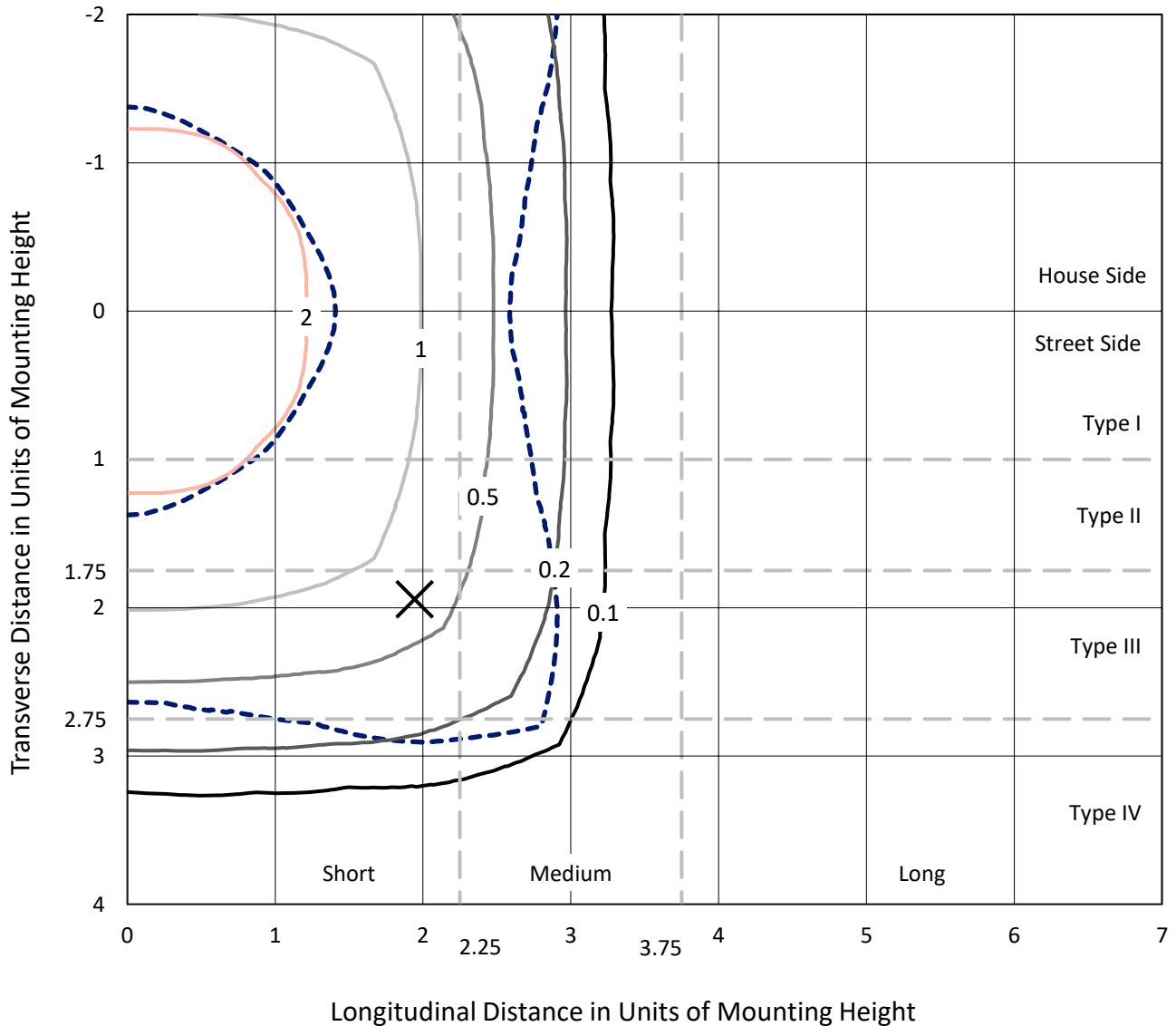
Input Watts (W): 184
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

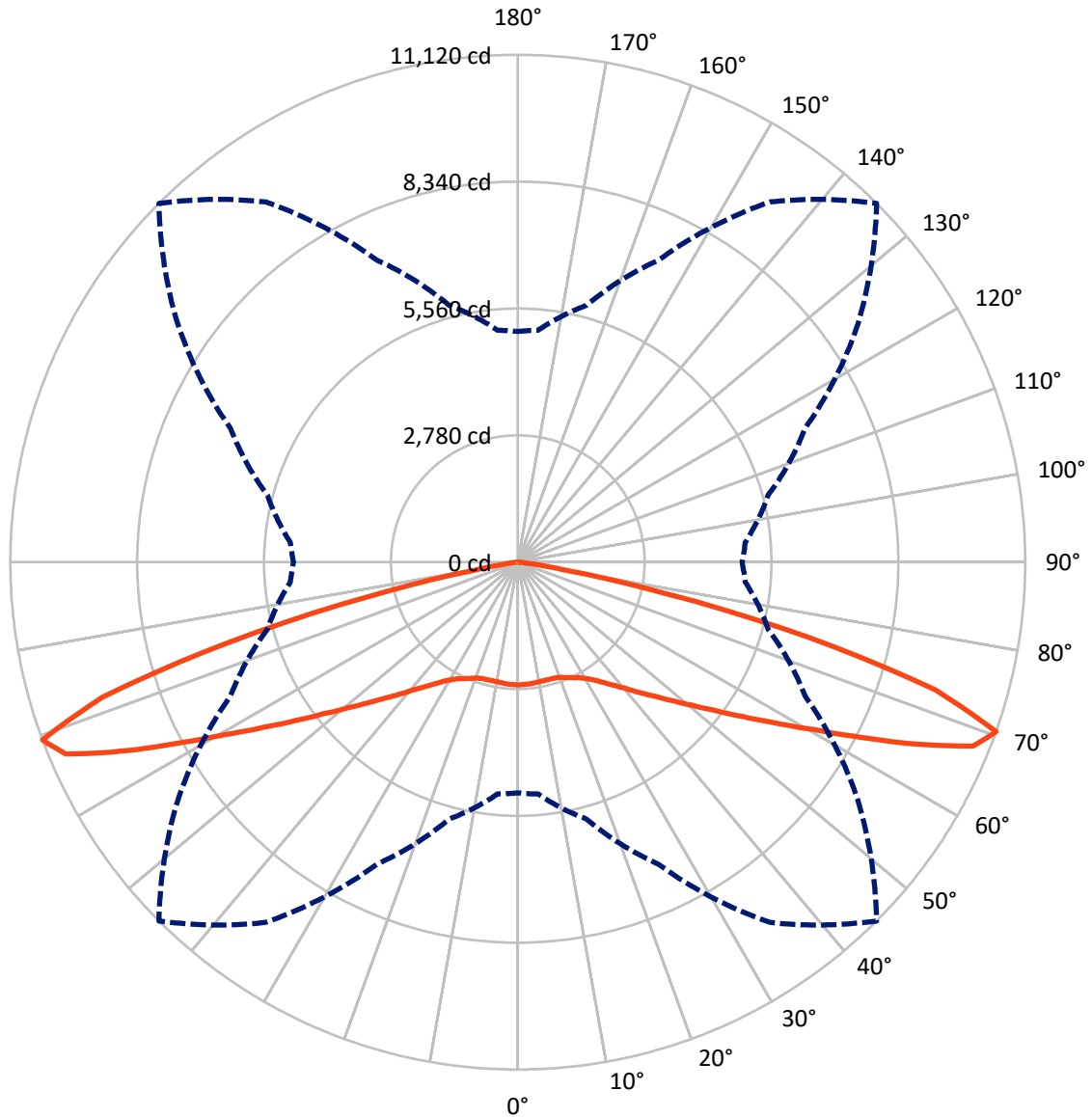
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12110.5	0.0	12110.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12110.5	0.0	12110.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	24221.0	0.0	24221.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.1	1.1
10°-20°	748.4	3.1
20°-30°	1280.1	5.3
30°-40°	2031.7	8.4
40°-50°	3277.7	13.5
50°-60°	5332.9	22.0
60°-70°	7730.8	31.9
70°-80°	3429.1	14.2
80°-90°	135.2	0.6
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°	24221.0	100.0
0°-180°	24221.0	100.0

Coefficient of Utilization



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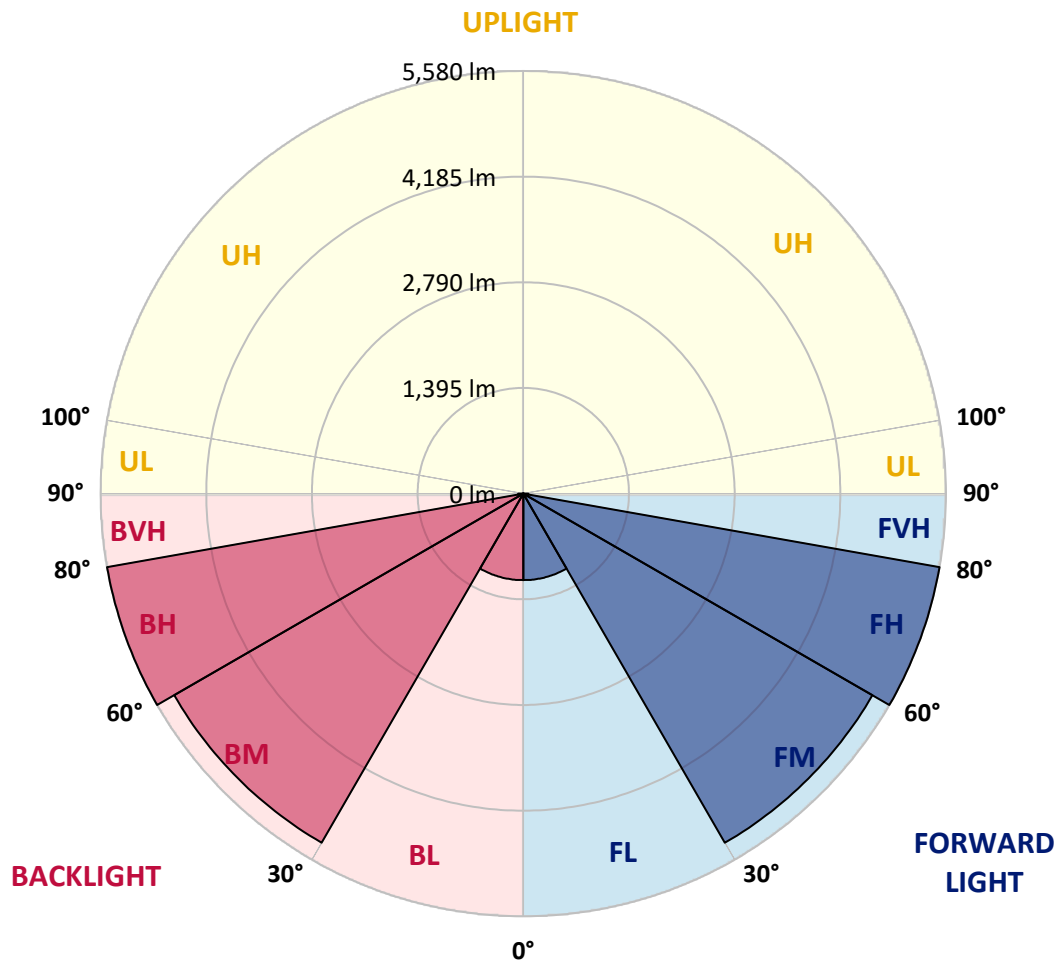
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1141.8	4.7			
FM	(30°-60°)	5321.2	22.0			
FH	(60°-80°)	5579.9	23.0			G3/7500
FVH	(80°-90°)	67.6	0.3			G1/100
BL	(0°-30°)	1141.8	4.7	B3/2500		
BM	(30°-60°)	5321.2	22.0	B4/8500		
BH	(60°-80°)	5579.9	23.0	B5		G3/7500
BVH	(80°-90°)	67.6	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2689.6	2689.6	2689.6	2689.6	2689.6	2689.6	2689.6	2689.6	2689.6	2689.6	2689.6
2.5°	2689.6	2692.2	2688.4	2685.8	2684.5	2684.5	2683.2	2684.5	2692.2	2693.5	2689.6
5°	2682.0	2684.5	2683.2	2680.7	2679.4	2679.4	2678.1	2676.9	2683.2	2685.8	2684.5
7.5°	2671.8	2673.0	2671.8	2670.5	2671.8	2670.5	2666.7	2664.1	2669.2	2669.2	2667.9
10°	2653.9	2656.4	2655.2	2656.4	2659.0	2659.0	2653.9	2648.8	2650.1	2647.5	2647.5
12.5°	2632.2	2636.0	2637.3	2642.4	2648.8	2656.4	2644.9	2633.5	2630.9	2629.6	2628.4
15°	2618.1	2622.0	2627.1	2632.2	2643.7	2660.3	2643.7	2625.8	2620.7	2615.6	2613.0
17.5°	2614.3	2619.4	2627.1	2634.7	2650.1	2666.7	2652.6	2634.7	2622.0	2614.3	2611.8
20°	2624.5	2628.4	2639.8	2653.9	2675.6	2692.2	2678.1	2659.0	2639.8	2628.4	2624.5
22.5°	2644.9	2651.3	2665.4	2690.9	2721.5	2745.8	2726.6	2694.7	2664.1	2648.8	2643.7
25°	2689.6	2694.7	2711.3	2745.8	2781.5	2804.5	2784.1	2747.1	2704.9	2684.5	2678.1
27.5°	2757.3	2764.9	2782.8	2823.7	2853.0	2865.8	2851.7	2826.2	2795.6	2773.9	2768.8
30°	2853.0	2862.0	2888.8	2932.2	2951.3	2959.0	2952.6	2936.0	2914.3	2891.3	2886.2
32.5°	2982.0	2987.1	3017.7	3058.5	3076.4	3079.0	3071.3	3063.6	3027.9	2989.6	2987.1
35°	3126.2	3135.1	3172.2	3220.7	3237.3	3238.5	3223.2	3211.7	3169.6	3139.0	3139.0
37.5°	3317.7	3321.5	3357.2	3412.1	3430.0	3424.9	3417.2	3407.0	3362.4	3322.8	3324.1
40°	3542.3	3550.0	3580.6	3644.5	3644.5	3638.1	3643.2	3635.5	3590.9	3552.6	3553.8
42.5°	3809.1	3813.0	3850.0	3917.6	3912.5	3899.8	3904.9	3894.7	3866.6	3823.2	3807.9
45°	4093.8	4109.1	4172.9	4238.0	4227.8	4187.0	4207.4	4204.9	4179.3	4114.2	4118.1
47.5°	4437.2	4462.7	4524.0	4601.9	4590.4	4526.5	4549.5	4564.8	4529.1	4457.6	4444.8
50°	4824.0	4840.6	4931.2	5004.0	4993.7	4926.1	4978.4	4981.0	4891.6	4790.8	4790.8
52.5°	5236.3	5252.9	5375.4	5489.0	5495.4	5397.1	5439.3	5436.7	5291.2	5158.4	5132.9
55°	5698.4	5706.0	5864.3	6031.6	6067.3	5971.6	5976.7	5925.6	5736.7	5582.2	5568.2
57.5°	6175.8	6203.9	6378.8	6595.8	6701.7	6643.0	6616.2	6479.6	6297.1	6119.6	6110.7
60°	6704.3	6705.6	6932.8	7189.4	7403.8	7443.4	7333.6	7151.1	6914.9	6680.0	6669.8
62.5°	7070.6	7125.5	7412.8	7846.8	8231.0	8453.1	8163.3	7780.4	7315.7	6936.6	6898.3
65°	7146.0	7183.0	7620.8	8356.1	9141.2	9619.9	8949.7	8135.3	7342.5	6837.0	6811.5
67.5°	6537.1	6576.6	7166.4	8294.8	9779.4	10761.1	9460.3	7964.2	6888.1	6262.6	6212.8
70°	5056.3	5101.0	5829.9	7301.7	9637.7	11119.8	9096.5	6946.8	5680.5	5005.2	4914.6
72.5°	2688.4	2853.0	3476.0	5011.6	7822.5	9573.9	7458.7	5069.1	3663.6	2994.7	2874.7
75°	981.6	1002.1	1349.3	2222.4	4550.8	6565.1	4725.7	2417.7	1390.1	1073.6	1018.7
77.5°	405.9	404.7	444.2	671.4	1653.1	3362.4	1844.6	709.7	443.0	409.8	404.7
80°	240.0	240.0	264.2	279.6	435.3	1014.8	486.4	316.6	265.5	242.5	246.4
82.5°	107.2	113.6	167.2	176.2	210.6	278.3	234.9	201.7	173.6	120.0	108.5
85°	58.7	51.1	88.1	91.9	100.8	103.4	111.1	109.8	100.8	58.7	60.0
87.5°	11.5	14.0	25.5	19.1	21.7	19.1	25.5	35.7	37.0	20.4	16.6
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)