

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: P647365

Luminaire Tested: **GALN-SA4D-835-U-5MQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647365  
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-SA4D-835-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3500K, 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: 25131.9 lumens  
Efficiency: N/A  
Efficacy: 102.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

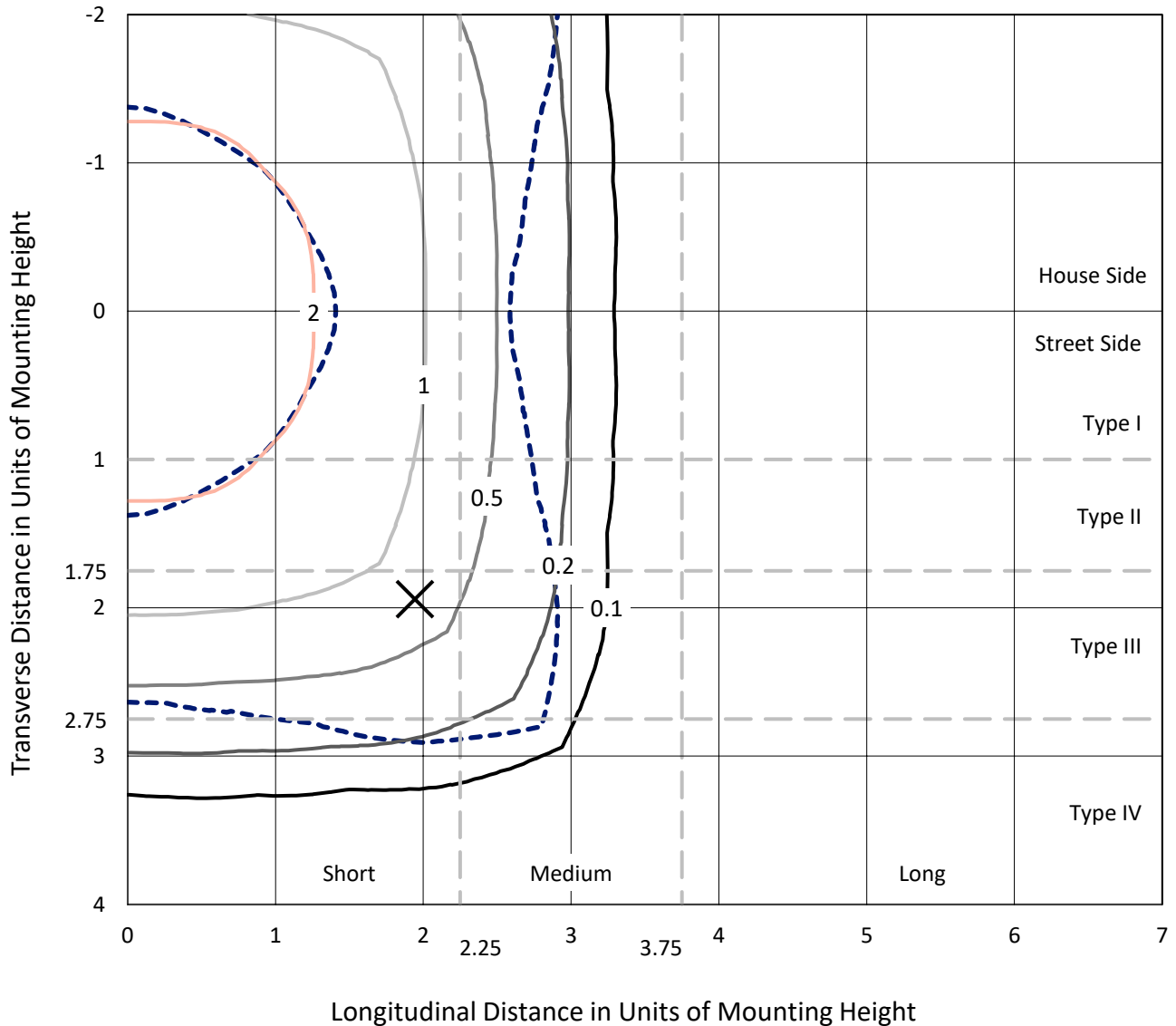
Input Watts (W): 245  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

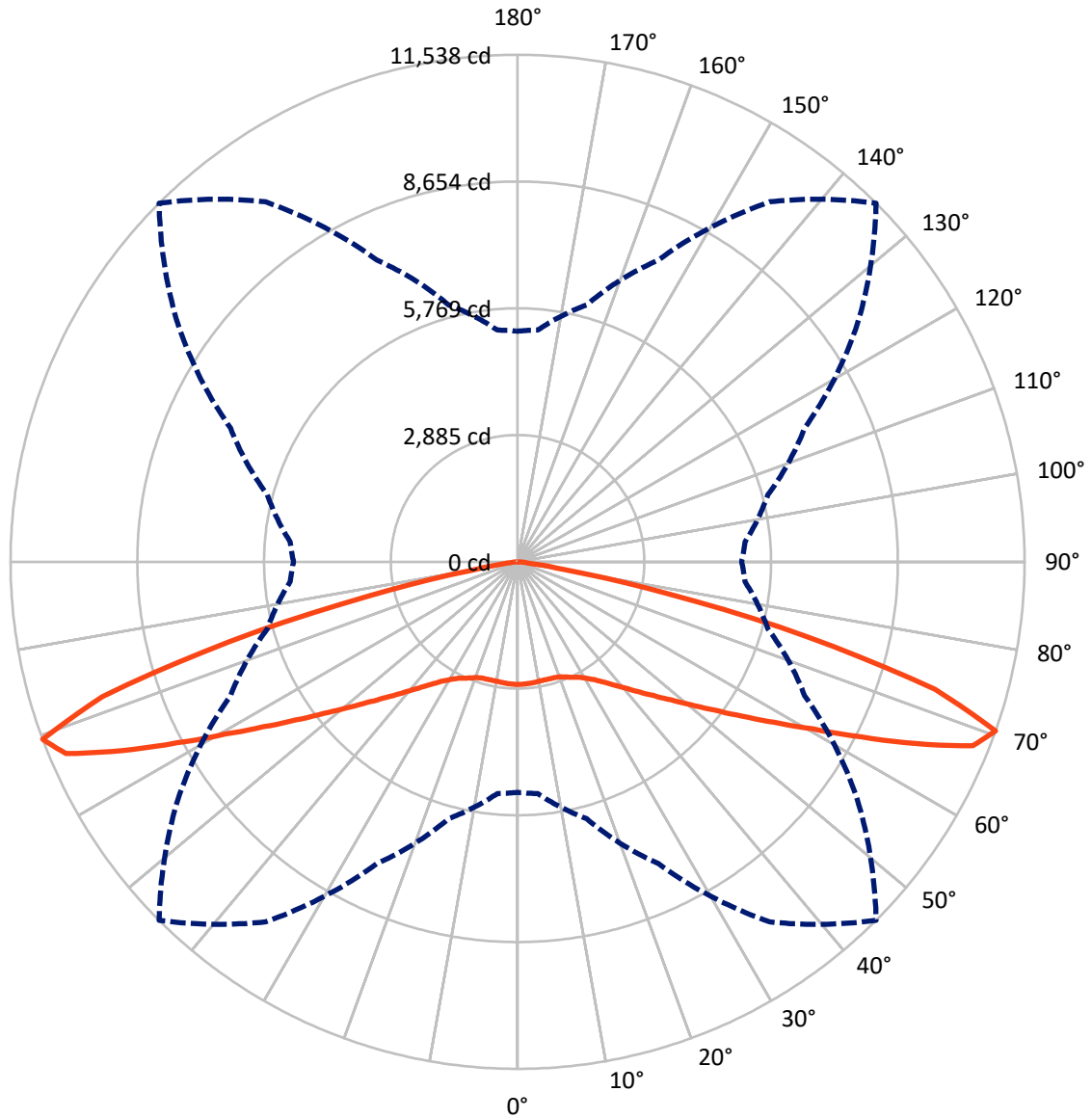
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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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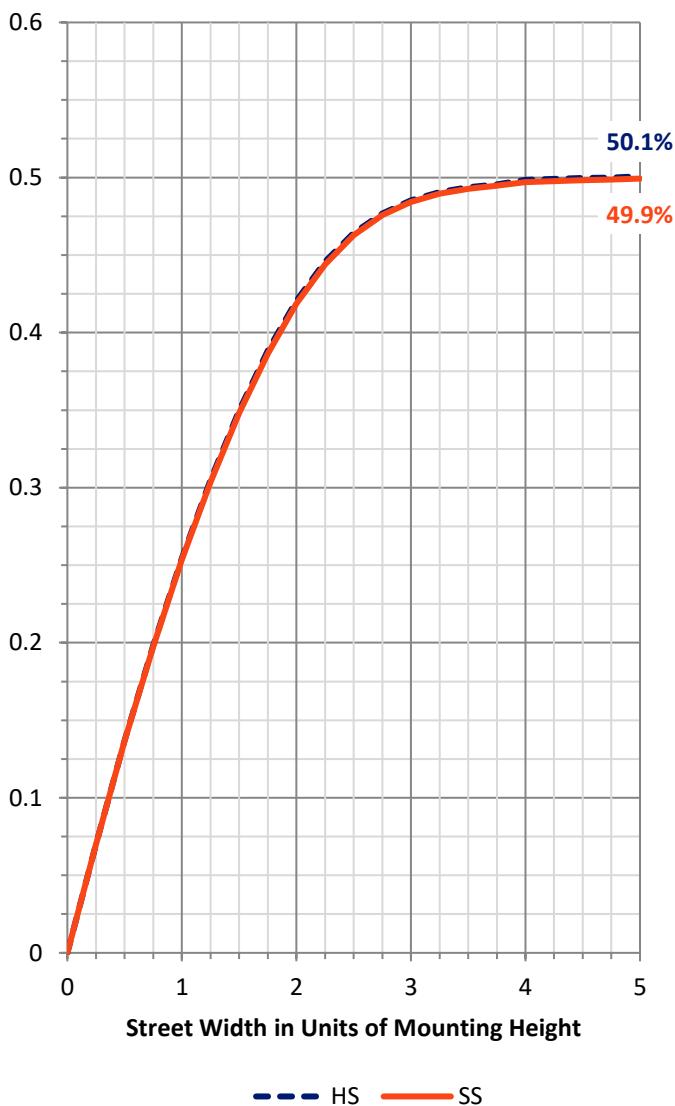
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12566.0	0.0	12566.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12566.0	0.0	12566.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	25131.9	0.0	25131.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	264.6	1.1
10°-20°	776.6	3.1
20°-30°	1328.2	5.3
30°-40°	2108.1	8.4
40°-50°	3401.0	13.5
50°-60°	5533.5	22.0
60°-70°	8021.5	31.9
70°-80°	3558.1	14.2
80°-90°	140.3	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°	25131.9	100.0
0°-180°	25131.9	100.0

**Coefficient of Utilization**



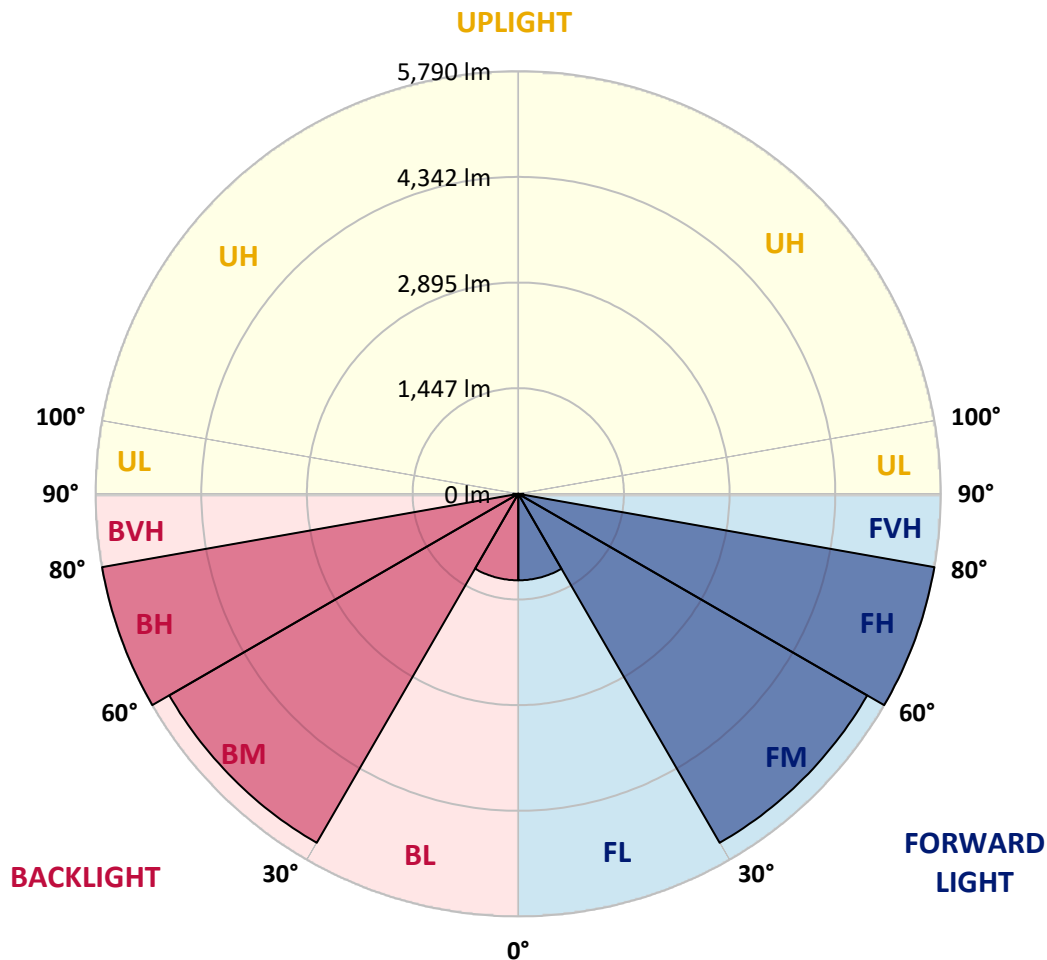
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1184.7	4.7			
FM (30°-60°)	5521.3	22.0			
FH (60°-80°)	5789.8	23.0			G3/7500
FVH (80°-90°)	70.2	0.3			G1/100
BL (0°-30°)	1184.7	4.7	B3/2500		
BM (30°-60°)	5521.3	22.0	B4/8500		
BH (60°-80°)	5789.8	23.0	B5		G3/7500
BVH (80°-90°)	70.2	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°	2790.8	2790.8	2790.8	2790.8	2790.8	2790.8	2790.8	2790.8	2790.8	2790.8	2790.8
2.5°	2790.8	2793.4	2789.4	2786.8	2785.5	2785.5	2784.2	2785.5	2793.4	2794.8	2790.8
5°	2782.9	2785.5	2784.2	2781.5	2780.2	2780.2	2778.9	2777.5	2784.2	2786.8	2785.5
7.5°	2772.2	2773.5	2772.2	2770.9	2772.2	2770.9	2767.0	2764.3	2769.6	2769.6	2768.3
10°	2753.7	2756.3	2755.0	2756.3	2759.0	2759.0	2753.7	2748.4	2749.7	2747.1	2747.1
12.5°	2731.2	2735.2	2736.5	2741.8	2748.4	2756.3	2744.4	2732.5	2729.9	2728.5	2727.2
15°	2716.6	2720.6	2725.9	2731.2	2743.1	2760.3	2743.1	2724.5	2719.3	2714.0	2711.3
17.5°	2712.6	2717.9	2725.9	2733.8	2749.7	2767.0	2752.4	2733.8	2720.6	2712.6	2710.0
20°	2723.2	2727.2	2739.1	2753.7	2776.2	2793.4	2778.9	2759.0	2739.1	2727.2	2723.2
22.5°	2744.4	2751.1	2765.6	2792.1	2823.9	2849.1	2829.2	2796.1	2764.3	2748.4	2743.1
25°	2790.8	2796.1	2813.3	2849.1	2886.1	2910.0	2888.8	2850.4	2806.7	2785.5	2778.9
27.5°	2861.0	2868.9	2887.5	2929.8	2960.3	2973.6	2959.0	2932.5	2900.7	2878.2	2872.9
30°	2960.3	2969.6	2997.4	3042.4	3062.3	3070.3	3063.6	3046.4	3023.9	3000.1	2994.7
32.5°	3094.1	3099.4	3131.2	3173.6	3192.1	3194.8	3186.8	3178.9	3141.8	3102.0	3099.4
35°	3243.8	3253.1	3291.4	3341.8	3359.0	3360.3	3344.4	3332.5	3288.8	3257.0	3257.0
37.5°	3442.5	3446.5	3483.5	3540.5	3559.0	3553.7	3545.7	3535.2	3488.8	3447.8	3449.1
40°	3675.6	3683.5	3715.3	3781.5	3781.5	3774.9	3780.2	3772.3	3725.9	3686.1	3687.5
42.5°	3952.4	3956.3	3994.8	4064.9	4059.7	4046.5	4051.7	4041.1	4012.0	3967.0	3951.1
45°	4247.8	4263.7	4329.9	4397.4	4386.8	4344.5	4365.6	4363.0	4336.5	4269.0	4272.9
47.5°	4604.0	4630.6	4694.2	4775.0	4763.0	4696.7	4720.6	4736.5	4699.4	4625.3	4612.0
50°	5005.4	5022.6	5116.7	5192.2	5181.6	5111.3	5165.7	5168.3	5075.6	4971.0	4971.0
52.5°	5433.2	5450.5	5577.6	5695.5	5702.1	5600.1	5643.8	5641.2	5490.2	5352.4	5326.0
55°	5912.7	5920.7	6084.9	6258.4	6295.5	6196.1	6201.4	6148.4	5952.4	5792.2	5777.6
57.5°	6408.1	6437.2	6618.7	6843.8	6953.7	6892.8	6865.0	6723.3	6533.9	6349.8	6340.5
60°	6956.4	6957.7	7193.5	7459.7	7682.2	7723.4	7609.4	7420.0	7174.9	6931.3	6920.7
62.5°	7336.6	7393.6	7691.6	8141.9	8540.6	8771.0	8470.3	8073.0	7590.9	7197.5	7157.8
65°	7414.7	7453.1	7907.4	8670.4	9484.9	9981.7	9286.3	8441.2	7618.7	7094.2	7067.7
67.5°	6782.9	6824.0	7435.9	8606.8	10147.2	11165.8	9816.1	8263.7	7147.1	6498.1	6446.5
70°	5246.5	5292.8	6049.1	7576.3	10000.2	11538.0	9438.6	7208.1	5894.2	5193.5	5099.4
72.5°	2789.4	2960.3	3606.7	5200.1	8116.7	9934.0	7739.3	5259.7	3801.4	3107.3	2982.8
75°	1018.5	1039.7	1400.0	2306.0	4722.0	6812.0	4903.4	2508.7	1442.4	1113.9	1057.0
77.5°	421.2	419.8	461.0	696.7	1715.2	3488.8	1914.0	736.4	459.6	425.2	419.8
80°	249.0	249.0	274.2	290.1	451.6	1053.0	504.6	328.5	275.5	251.7	255.6
82.5°	111.3	117.9	173.5	182.8	218.5	288.8	243.7	209.3	180.2	124.5	112.6
85°	60.9	53.0	91.4	95.4	104.6	107.3	115.3	113.9	104.6	60.9	62.2
87.5°	11.9	14.6	26.5	19.9	22.6	19.9	26.5	37.1	38.4	21.2	17.2
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)