

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: P646820

Luminaire Tested: **GALN-SA3C-835-U-5WQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646820  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3C-835-U-5WQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13942.1 lumens  
Efficiency: N/A  
Efficacy: 87.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

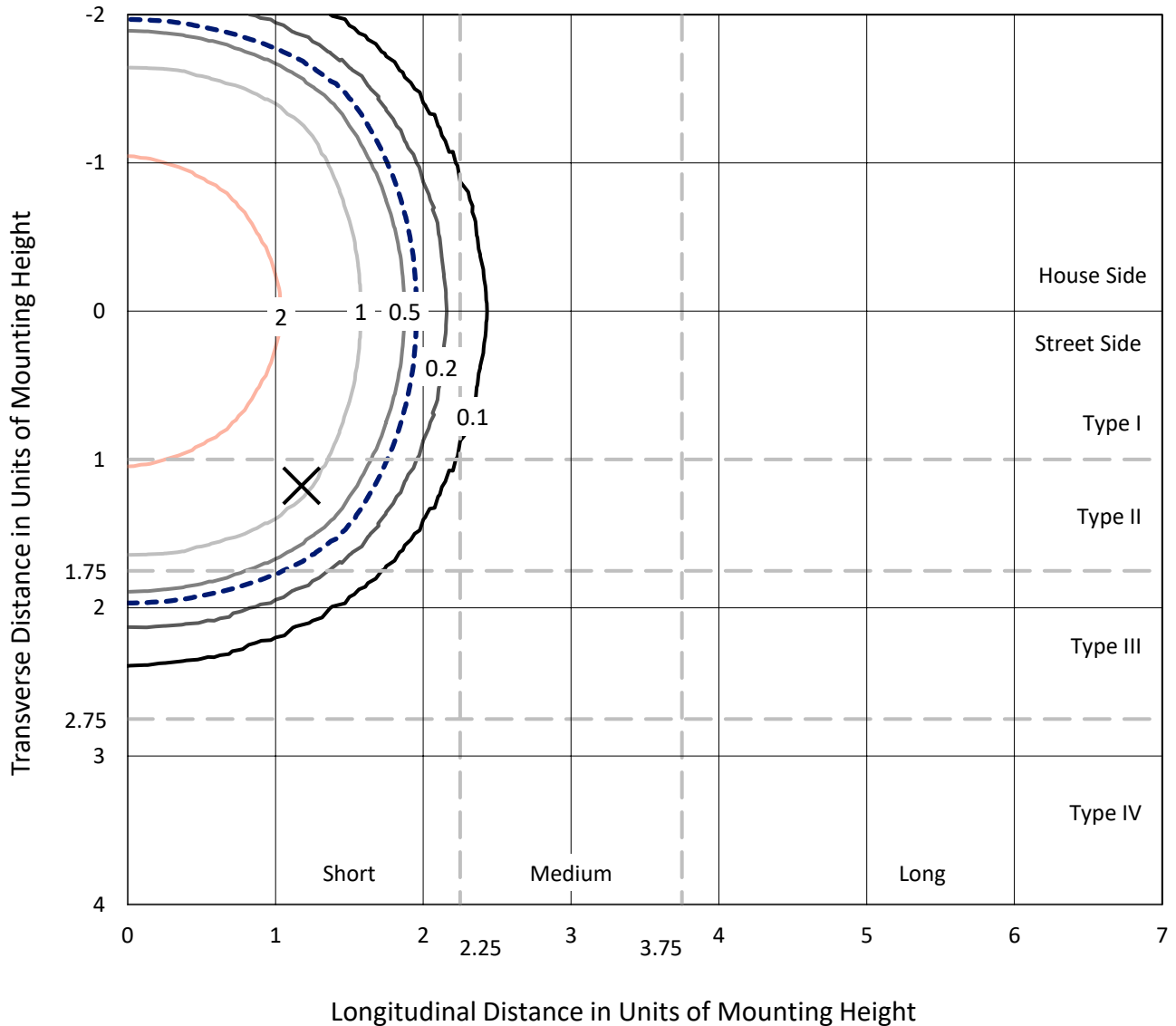
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

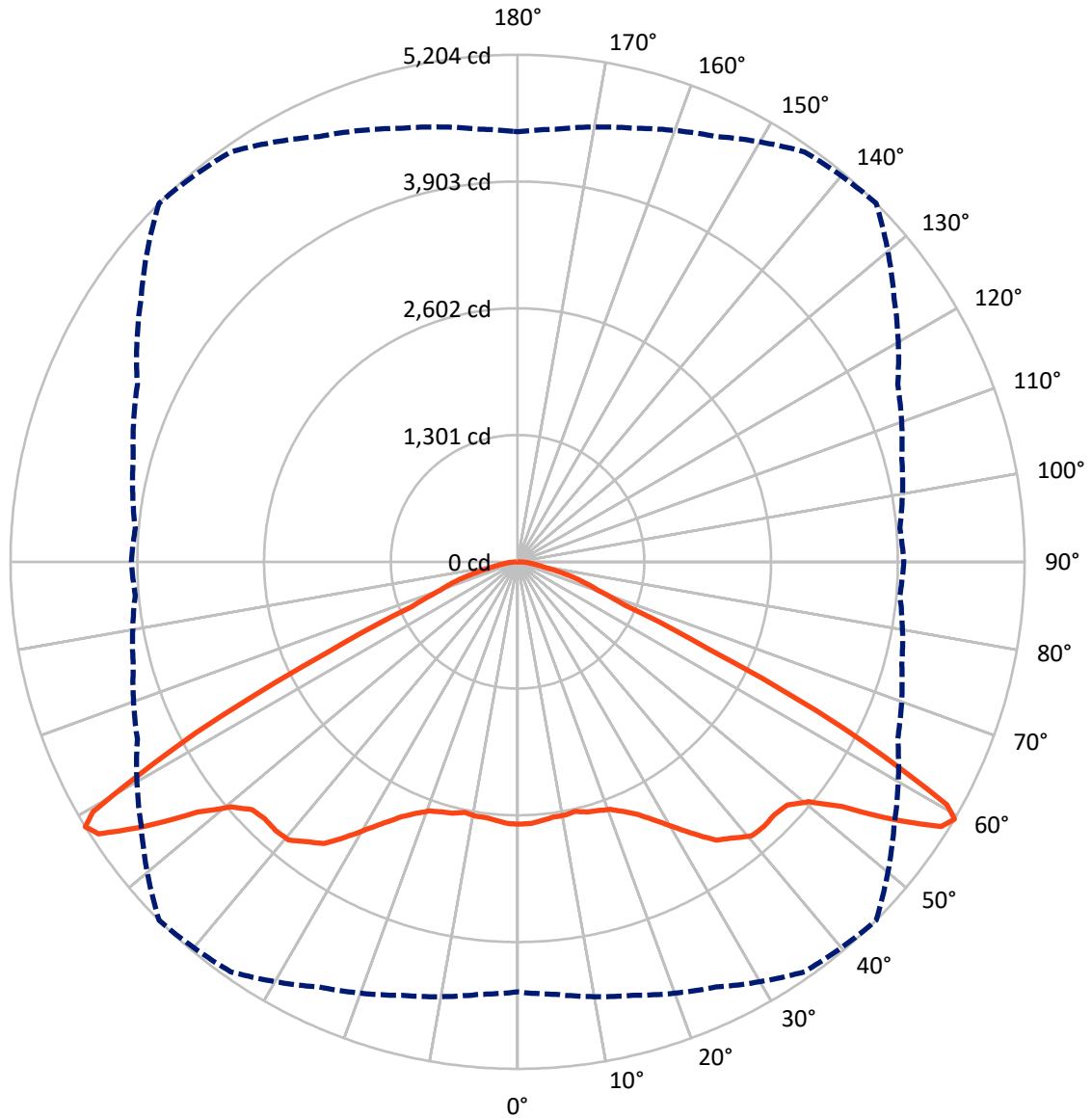
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 59-Deg Vertical

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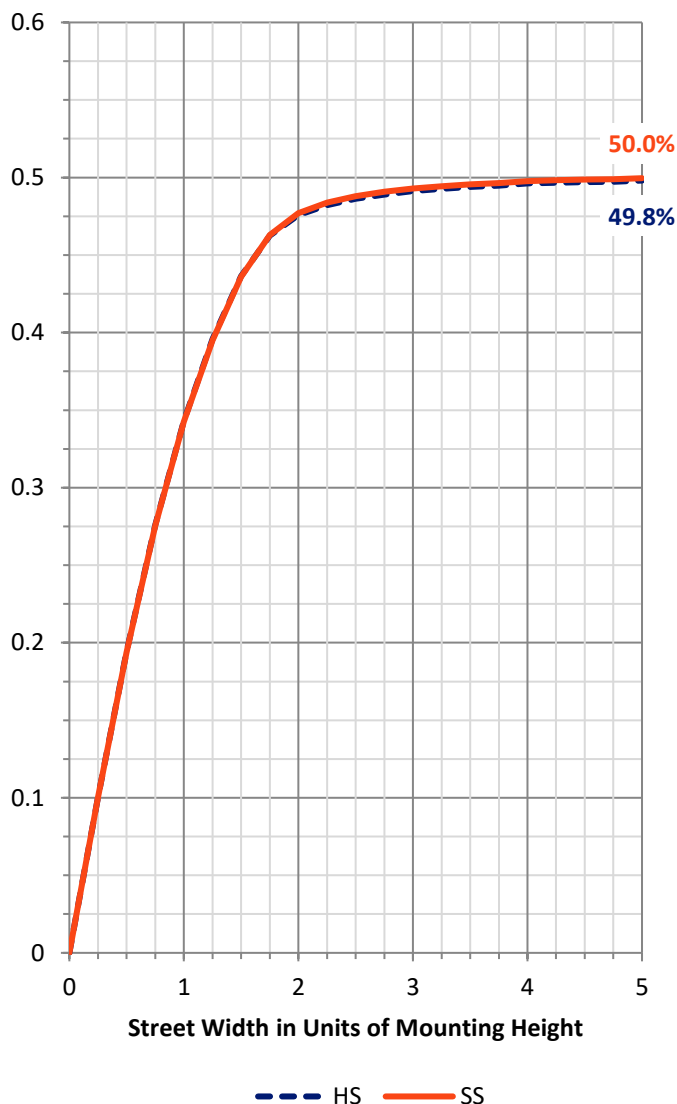
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6971.1	0.0	6971.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6971.1	0.0	6971.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	13942.1	0.0	13942.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	253.9	1.8
10°-20°	754.9	5.4
20°-30°	1318.2	9.5
30°-40°	2105.4	15.1
40°-50°	2867.9	20.6
50°-60°	3878.2	27.8
60°-70°	2126.8	15.3
70°-80°	544.1	3.9
80°-90°	92.8	0.7
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°	13942.1	100.0
0°-180°	13942.1	100.0

**Coefficient of Utilization**



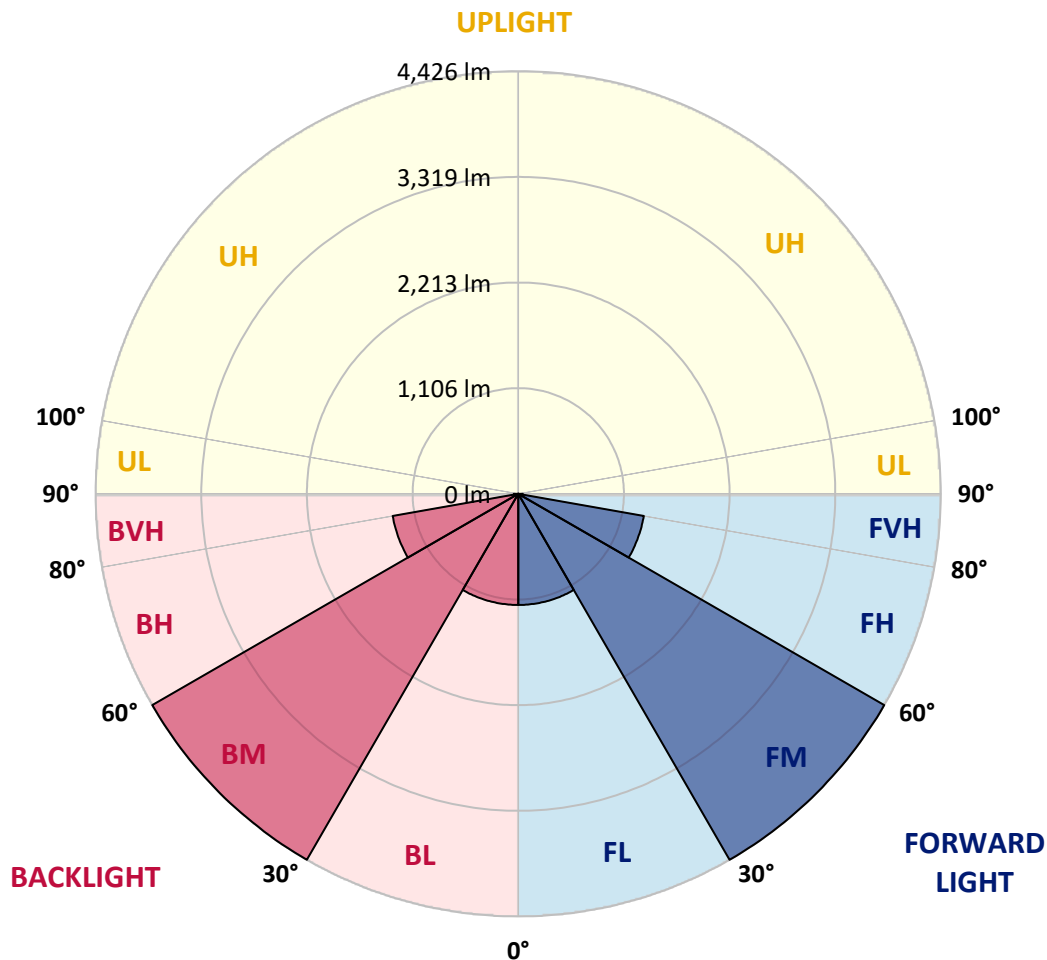
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1163.5	8.3			
FM (30°-60°)	4425.7	31.7			
FH (60°-80°)	1335.4	9.6			G1/1800
FVH (80°-90°)	46.4	0.3			G1/100
BL (0°-30°)	1163.5	8.3	B3/2500		
BM (30°-60°)	4425.7	31.7	B3/5000		
BH (60°-80°)	1335.4	9.6	B3/2500		G1/1800
BVH (80°-90°)	46.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2693.0	2693.0	2693.0	2693.0	2693.0	2693.0	2693.0	2693.0	2693.0	2693.0	2693.0
2.5°	2676.8	2696.5	2682.2	2694.7	2693.0	2687.6	2678.6	2673.3	2666.1	2676.8	2659.0
5°	2666.1	2682.2	2698.3	2676.8	2676.8	2666.1	2660.8	2650.1	2650.1	2648.3	2646.5
7.5°	2684.0	2667.9	2660.8	2664.4	2667.9	2644.7	2660.8	2639.3	2621.5	2634.0	2648.3
10°	2667.9	2675.0	2648.3	2660.8	2641.1	2644.7	2634.0	2648.3	2628.6	2628.6	2628.6
12.5°	2684.0	2664.4	2673.3	2664.4	2659.0	2628.6	2642.9	2626.8	2625.0	2642.9	2626.8
15°	2716.1	2684.0	2676.8	2659.0	2664.4	2664.4	2650.1	2651.9	2632.2	2642.9	2646.5
17.5°	2705.4	2687.6	2682.2	2660.8	2678.6	2684.0	2657.2	2639.3	2651.9	2650.1	2648.3
20°	2714.4	2721.6	2716.1	2719.8	2726.9	2712.6	2687.6	2662.6	2646.5	2669.7	2667.9
22.5°	2771.6	2764.5	2760.9	2757.3	2769.8	2784.1	2750.1	2710.8	2710.8	2726.9	2734.1
25°	2818.0	2816.2	2814.5	2830.5	2873.5	2873.5	2830.5	2780.5	2768.0	2778.7	2769.8
27.5°	2885.9	2905.6	2898.4	2927.0	2989.6	3003.9	2946.7	2887.7	2853.8	2841.3	2857.3
30°	3041.4	3018.2	3023.6	3053.9	3109.3	3155.8	3068.2	3005.7	2959.2	2957.4	2964.6
32.5°	3145.1	3162.9	3179.0	3207.6	3295.2	3330.9	3225.5	3123.6	3095.0	3078.9	3084.3
35°	3352.3	3336.3	3332.7	3361.3	3448.8	3507.8	3375.6	3286.3	3248.7	3284.5	3284.5
37.5°	3548.9	3504.2	3470.3	3507.8	3588.2	3595.4	3482.8	3434.6	3414.9	3456.0	3454.2
40°	3641.8	3638.2	3559.6	3581.1	3688.3	3699.0	3593.6	3536.4	3532.8	3586.5	3640.0
42.5°	3738.4	3704.4	3625.8	3640.0	3706.2	3709.7	3609.6	3593.6	3632.9	3684.7	3688.3
45°	3754.4	3725.8	3675.8	3640.0	3688.3	3699.0	3640.0	3650.7	3654.3	3716.9	3716.9
47.5°	3786.6	3783.0	3754.4	3727.6	3736.6	3727.6	3690.0	3706.2	3759.7	3790.1	3775.9
50°	3875.9	3838.4	3867.0	3843.7	3845.5	3870.5	3836.6	3852.7	3841.9	3815.2	3797.3
52.5°	4072.5	4054.6	4079.7	4095.7	4113.6	4170.7	4131.4	4045.7	3965.3	3893.8	3892.0
55°	4360.2	4372.7	4421.0	4503.1	4572.8	4663.9	4474.5	4269.1	4140.3	4027.8	4035.0
57.5°	4631.8	4622.8	4689.0	4876.6	5080.3	5126.8	4755.1	4462.0	4252.9	4181.5	4151.1
59°	4413.8	4456.7	4606.8	4815.8	5135.7	5203.7	4717.6	4304.8	4083.2	3938.5	3963.5
60°	4070.7	4086.8	4220.8	4512.0	4944.5	5060.7	4465.6	4061.7	3766.9	3682.9	3720.4
62.5°	2877.0	2864.5	2961.0	3198.6	3586.5	3743.7	3320.2	3036.0	2850.2	2757.3	2778.7
65°	1529.7	1586.8	1626.1	1774.4	1980.0	2146.1	1971.0	1847.7	1744.1	1667.2	1665.4
67.5°	1032.9	1025.7	1034.7	1068.6	1138.3	1184.8	1181.2	1118.7	1109.7	1095.4	1111.5
70°	870.2	866.7	850.6	850.6	864.9	875.6	888.2	895.3	909.5	927.5	925.7
72.5°	705.9	696.9	686.2	680.8	698.7	704.1	720.1	727.3	739.8	738.0	754.1
75°	466.4	466.4	478.9	493.2	498.5	509.3	511.1	532.5	532.5	536.1	521.8
77.5°	260.9	253.8	262.7	276.9	289.5	309.1	328.8	344.9	353.8	350.2	350.2
80°	151.9	151.9	160.8	176.9	193.0	210.9	225.2	237.6	246.6	243.0	235.8
82.5°	94.7	94.7	103.7	119.7	132.2	143.0	162.6	178.7	189.4	185.8	176.9
85°	48.2	48.2	59.0	69.7	85.7	92.9	91.1	84.0	82.2	73.3	73.3
87.5°	12.5	12.5	17.9	19.7	16.1	17.9	17.9	17.9	17.9	17.9	19.7
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)