

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: P648078

Luminaire Tested: **GALN-SA8A-835-U-5MQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648078  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8A-835-U-5MQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17352.8 lumens  
Efficiency: N/A  
Efficacy: 71.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

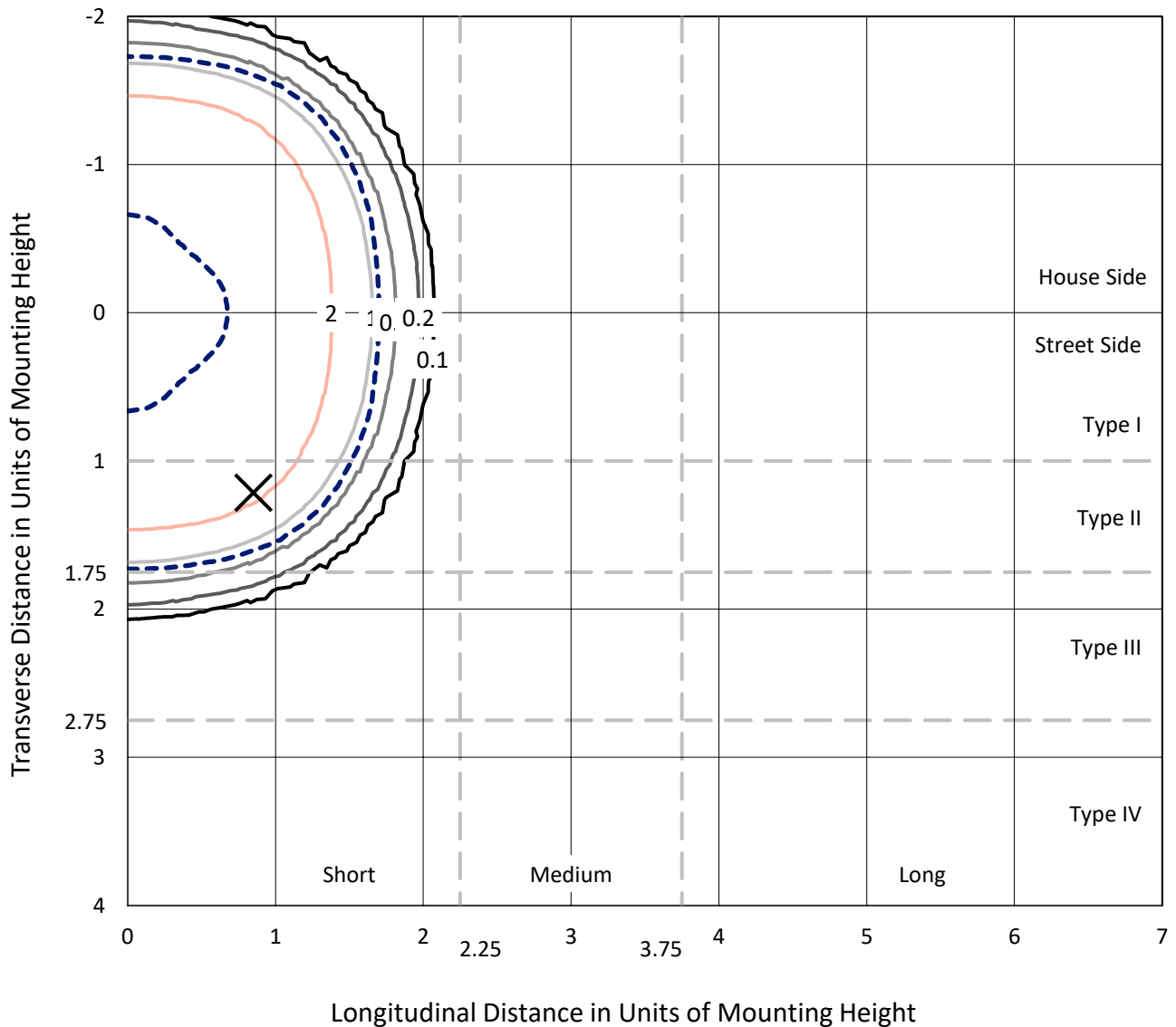
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

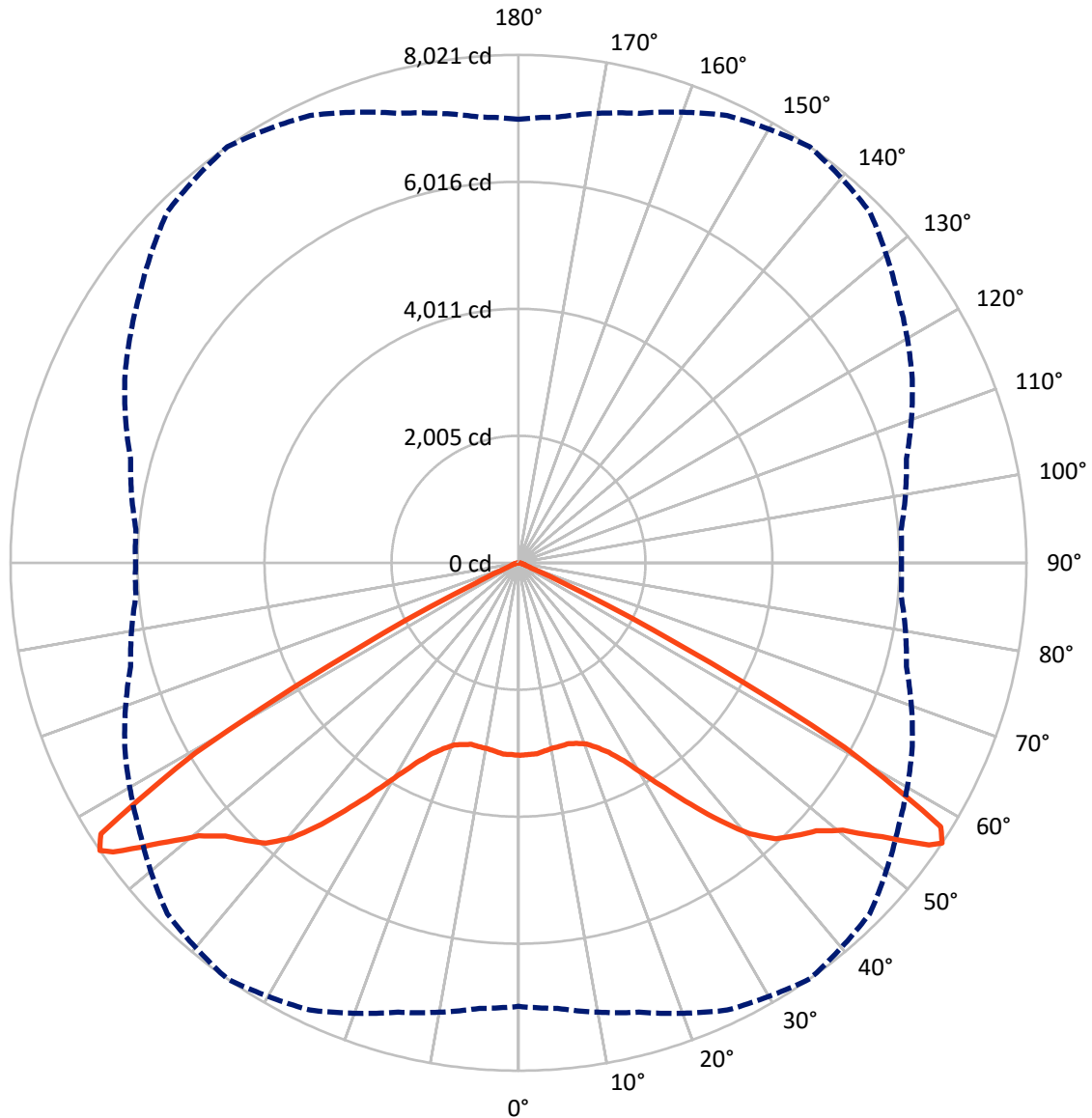
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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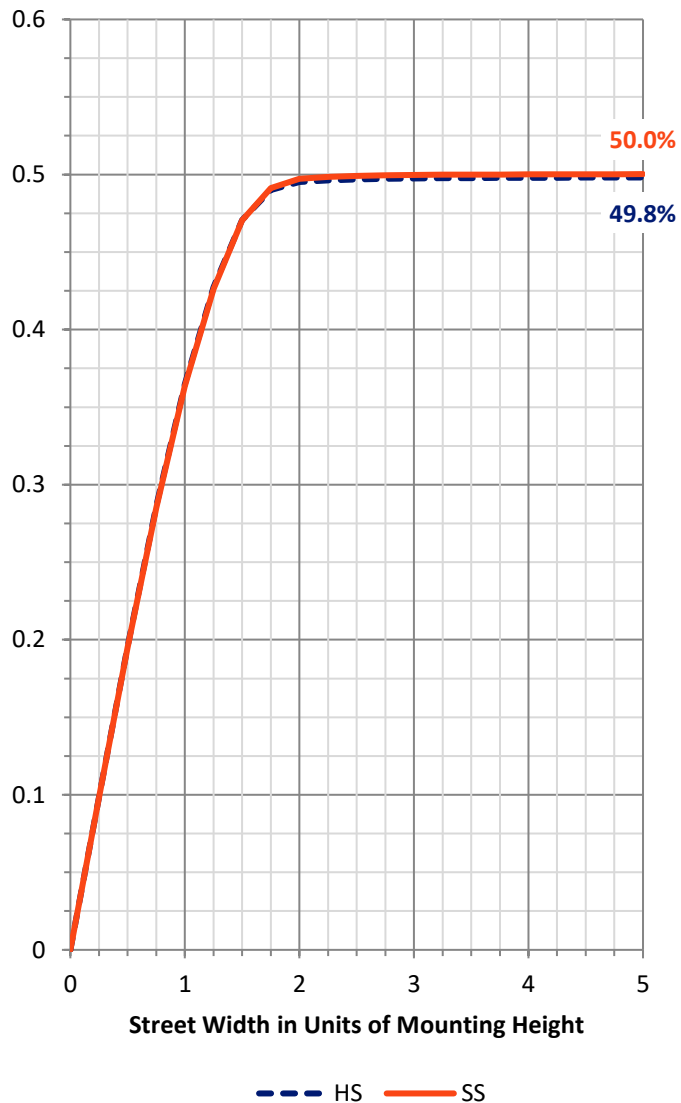
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8676.4	0.0	8676.4
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8676.4	0.0	8676.4
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	17352.8	0.0	17352.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	285.8	1.6
10°-20°	834.3	4.8
20°-30°	1510.8	8.7
30°-40°	2801.6	16.1
40°-50°	4598.6	26.5
50°-60°	5924.4	34.1
60°-70°	1305.7	7.5
70°-80°	75.8	0.4
80°-90°	15.9	0.1
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°	17352.8	100.0
0°-180°	17352.8	100.0

**Coefficient of Utilization**



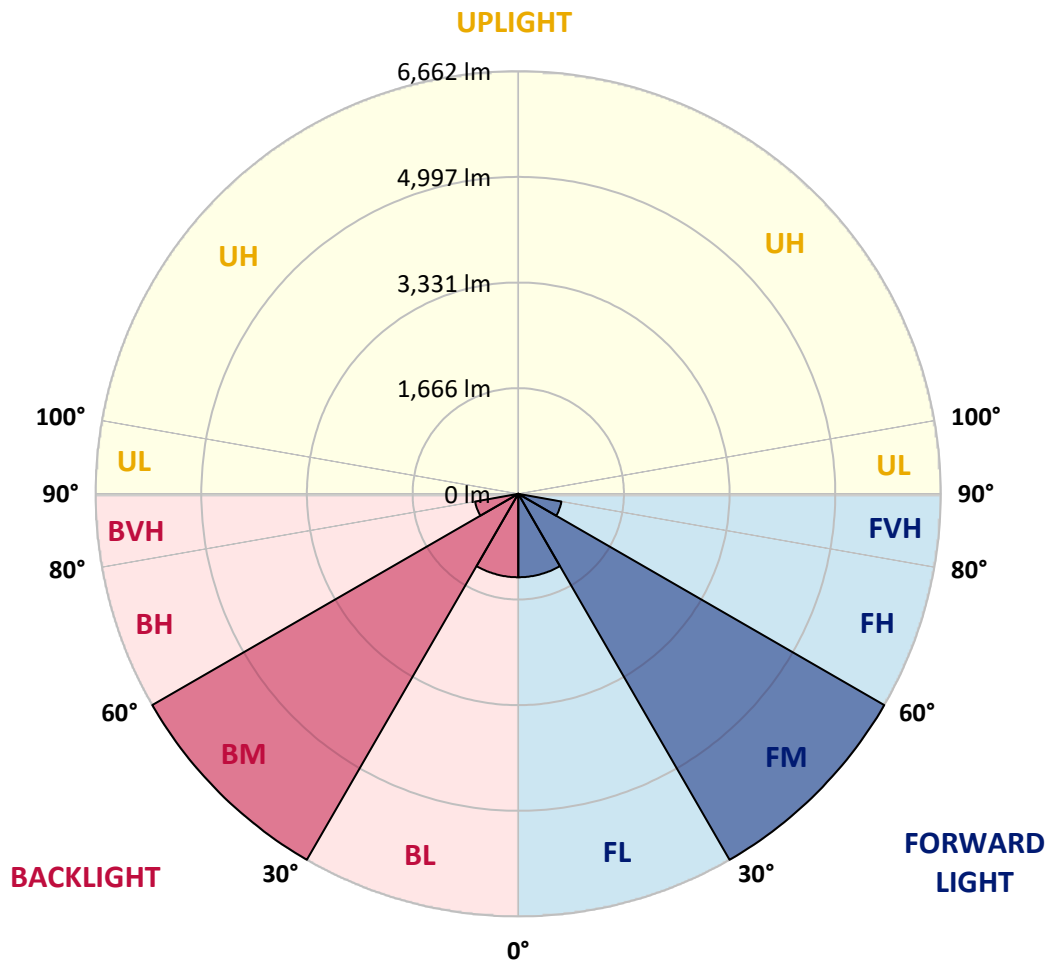
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1315.4	7.6			
FM (30°-60°)	6662.3	38.4			
FH (60°-80°)	690.7	4.0			G1/1800
FVH (80°-90°)	8.0	0.0			G0/10
BL (0°-30°)	1315.4	7.6	B3/2500		
BM (30°-60°)	6662.3	38.4	B4/8500		
BH (60°-80°)	690.7	4.0	B2/1000		G1/1800
BVH (80°-90°)	8.0	0.0			G0/10
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°	3040.6	3040.6	3040.6	3040.6	3040.6	3040.6	3040.6	3040.6	3040.6	3040.6	3040.6
2.5°	3046.9	3046.9	3050.0	3053.2	3031.1	3021.8	3024.9	3018.5	3015.4	3024.9	3024.9
5°	3037.4	3037.4	3028.0	3031.1	3031.1	3002.9	3002.9	3009.1	3009.1	2990.3	2984.0
7.5°	3012.3	3006.0	2993.4	3009.1	2999.8	2999.8	2977.7	2962.0	2955.7	2968.3	2955.7
10°	2958.8	2962.0	2974.5	2980.9	2974.5	2993.4	2955.7	2933.7	2911.7	2902.3	2902.3
12.5°	2933.7	2952.5	2933.7	2949.4	2971.4	2955.7	2933.7	2917.9	2886.5	2873.9	2873.9
15°	2930.5	2943.1	2949.4	2971.4	2962.0	2968.3	2924.3	2905.4	2858.2	2836.2	2826.8
17.5°	2927.4	2943.1	2952.5	2993.4	2999.8	3002.9	2968.3	2911.7	2870.8	2848.8	2826.8
20°	2962.0	2968.3	2987.1	3028.0	3053.2	3097.2	3034.3	2974.5	2886.5	2861.4	2851.9
22.5°	3006.0	3037.4	3056.3	3100.4	3166.4	3204.1	3122.4	3046.9	2955.7	2924.3	2886.5
25°	3147.5	3141.2	3172.6	3263.9	3317.3	3345.6	3279.6	3169.5	3050.0	3012.3	3018.5
27.5°	3323.6	3329.9	3358.2	3458.8	3537.4	3581.4	3502.8	3358.2	3241.9	3179.0	3172.6
30°	3553.1	3546.8	3578.3	3713.5	3854.9	3921.0	3782.7	3612.8	3499.7	3418.0	3436.7
32.5°	3795.2	3798.4	3886.4	4009.0	4238.6	4367.5	4144.3	3936.8	3766.9	3710.3	3682.1
35°	4153.7	4169.4	4238.6	4427.2	4681.9	4848.6	4603.3	4355.0	4160.0	4056.3	4068.8
37.5°	4597.1	4581.3	4697.7	4902.0	5169.3	5292.0	5084.4	4801.4	4603.3	4534.2	4578.2
40°	5068.7	5084.4	5144.2	5329.6	5628.4	5710.2	5402.0	5247.9	5075.0	5040.4	5093.9
42.5°	5540.4	5531.0	5575.0	5741.6	5958.6	5901.9	5719.6	5628.4	5505.7	5436.6	5508.9
45°	5886.2	5870.5	5952.3	6065.4	6144.0	6037.2	5955.4	5923.9	5861.1	5785.6	5851.7
47.5°	6222.7	6210.1	6288.7	6320.1	6326.4	6184.9	6200.7	6257.3	6100.0	5942.8	6018.3
50°	6508.8	6486.8	6584.2	6653.5	6637.7	6411.4	6468.0	6411.4	6166.0	5980.6	5952.3
52.5°	6986.8	6996.2	7099.9	7225.8	7188.0	6999.3	6917.6	6659.7	6345.3	6178.7	6081.2
55°	7288.6	7241.4	7420.6	7820.0	7864.1	7669.1	7307.5	6927.0	6455.4	6251.0	6225.8
56°	7005.7	7065.4	7348.4	7794.8	8021.3	7842.1	7316.9	6861.0	6342.1	6065.4	6046.6
57.5°	6285.5	6254.1	6637.7	7247.8	7864.1	7788.6	7059.1	6389.4	5785.6	5474.3	5436.6
60°	3911.6	4002.8	4339.2	5093.9	5917.7	5955.4	5232.2	4656.8	3952.4	3675.7	3741.8
62.5°	1531.3	1452.7	1663.3	2226.2	2792.2	2917.9	2644.4	2197.9	1804.9	1531.3	1512.4
65°	355.3	345.9	389.9	537.7	751.5	871.0	827.0	594.3	437.1	415.1	383.6
67.5°	201.2	201.2	191.8	191.8	210.7	223.2	213.8	210.7	220.1	229.6	226.4
70°	141.5	138.4	132.1	135.2	128.9	128.9	138.4	154.1	166.6	166.6	169.8
72.5°	84.9	84.9	84.9	94.4	94.4	94.4	103.7	116.4	119.5	116.4	113.2
75°	37.7	37.7	44.0	53.5	59.7	62.9	72.3	78.6	84.9	78.6	72.3
77.5°	9.4	9.4	15.7	22.0	28.3	34.6	47.1	56.6	59.7	56.6	47.1
80°	3.1	3.1	6.3	15.7	28.3	34.6	47.1	50.3	53.5	47.1	37.7
82.5°	3.1	3.1	6.3	15.7	22.0	28.3	37.7	44.0	47.1	40.9	37.7
85°	0.0	3.1	6.3	12.6	18.9	25.1	25.1	18.9	15.7	9.4	12.6
87.5°	0.0	0.0	3.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)