

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: P648518

Luminaire Tested: **GALN-SA7B-835-U-5MQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648518  
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-SA7B-835-U-5MQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3500K, 800mA 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: 18624.4 lumens  
Efficiency: N/A  
Efficacy: 65.1 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

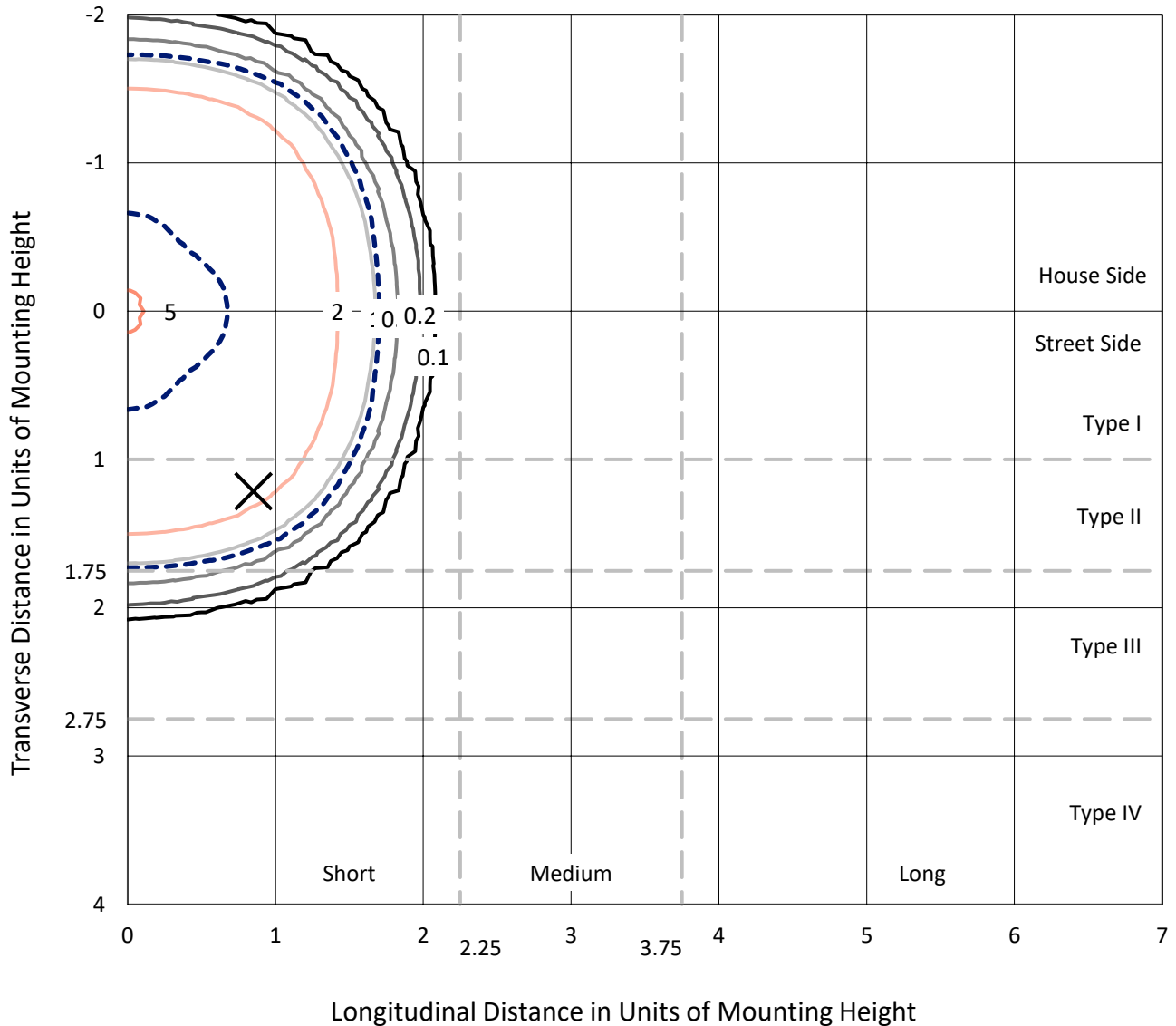
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

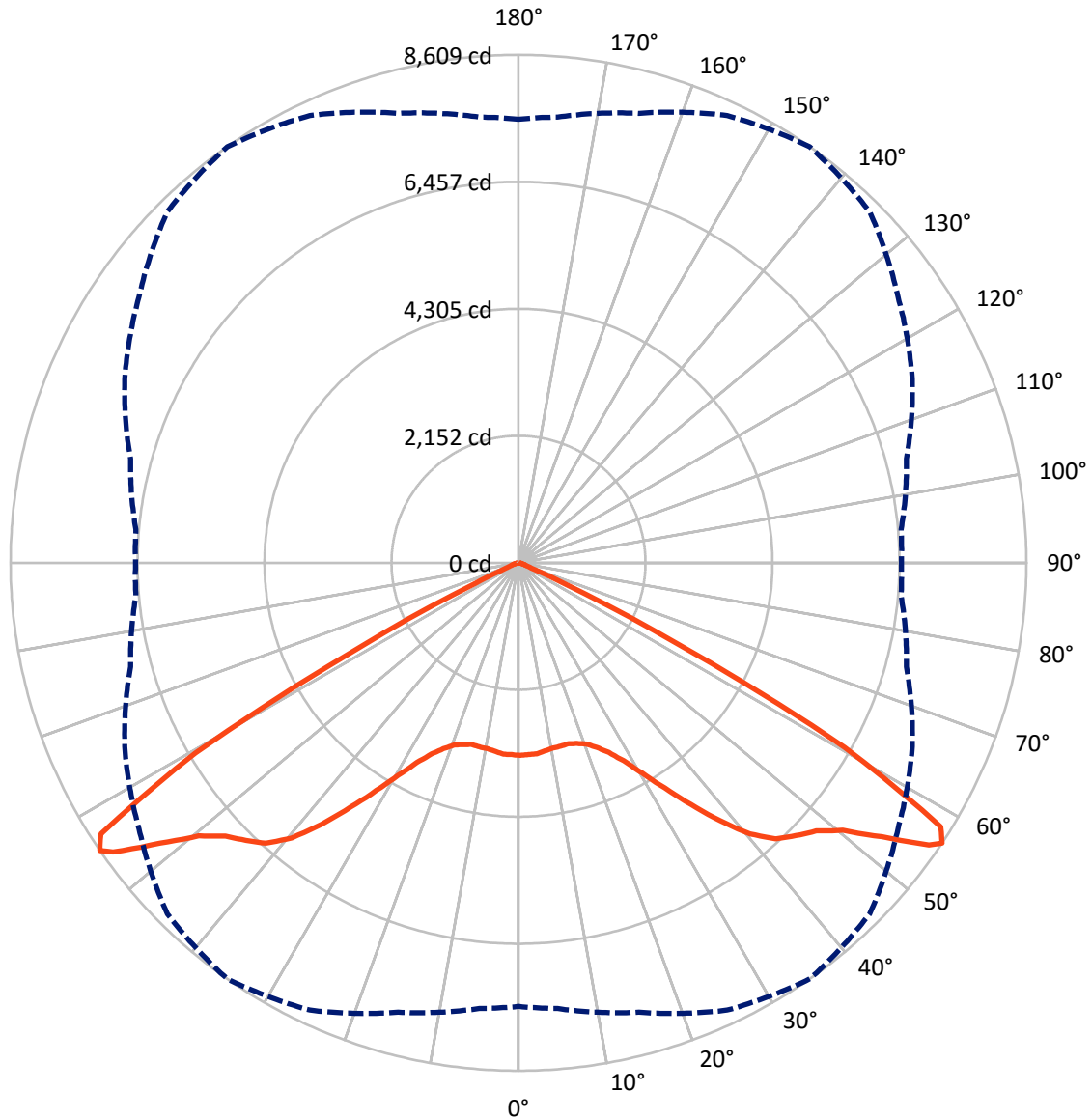
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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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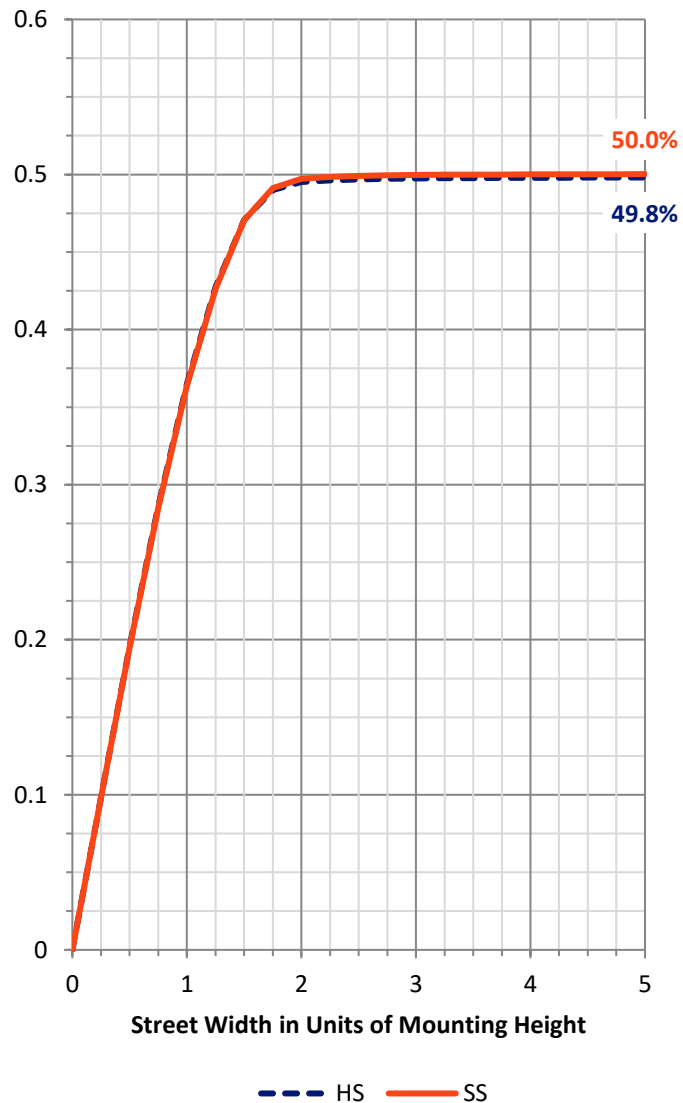
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9312.2	0.0	9312.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9312.2	0.0	9312.2
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	18624.4	0.0	18624.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	306.7	1.6
10°-20°	895.4	4.8
20°-30°	1621.5	8.7
30°-40°	3006.9	16.1
40°-50°	4935.6	26.5
50°-60°	6358.5	34.1
60°-70°	1401.3	7.5
70°-80°	81.3	0.4
80°-90°	17.1	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°	18624.4	100.0
0°-180°	18624.4	100.0

**Coefficient of Utilization**



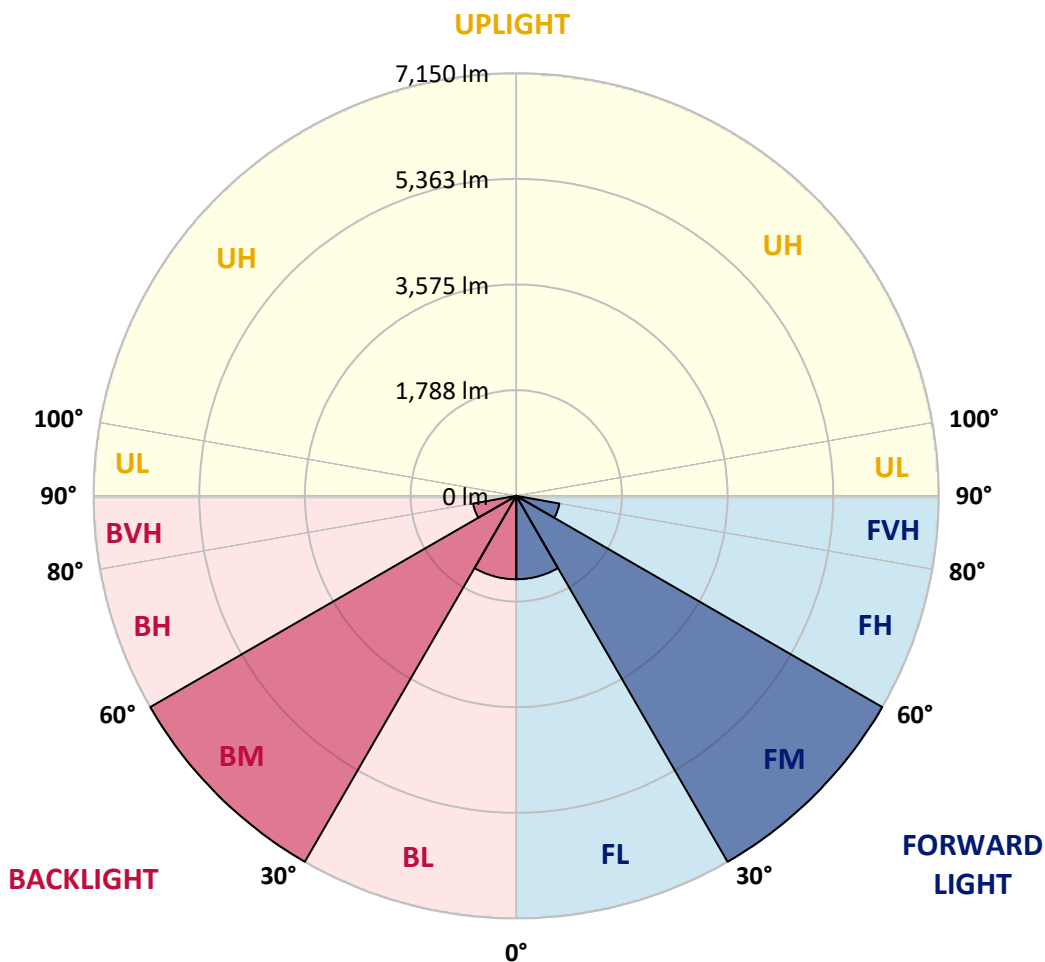
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1411.8	7.6			
FM (30°-60°)	7150.5	38.4			
FH (60°-80°)	741.3	4.0			G1/1800
FVH (80°-90°)	8.6	0.0			G0/10
BL (0°-30°)	1411.8	7.6	B3/2500		
BM (30°-60°)	7150.5	38.4	B4/8500		
BH (60°-80°)	741.3	4.0	B2/1000		G1/1800
BVH (80°-90°)	8.6	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°	3263.4	3263.4	3263.4	3263.4	3263.4	3263.4	3263.4	3263.4	3263.4	3263.4	3263.4
2.5°	3270.1	3270.1	3273.5	3276.9	3253.3	3243.2	3246.6	3239.7	3236.4	3246.6	3246.6
5°	3260.0	3260.0	3249.9	3253.3	3253.3	3222.9	3222.9	3229.6	3229.6	3209.4	3202.6
7.5°	3233.0	3226.3	3212.8	3229.6	3219.5	3219.5	3195.9	3179.1	3172.2	3185.8	3172.2
10°	3175.7	3179.1	3192.5	3199.3	3192.5	3212.8	3172.2	3148.7	3125.0	3114.9	3114.9
12.5°	3148.7	3168.9	3148.7	3165.5	3189.2	3172.2	3148.7	3131.8	3098.0	3084.6	3084.6
15°	3145.3	3158.8	3165.5	3189.2	3179.1	3185.8	3138.5	3118.3	3067.6	3044.1	3033.9
17.5°	3141.9	3158.8	3168.9	3212.8	3219.5	3222.9	3185.8	3125.0	3081.2	3057.5	3033.9
20°	3179.1	3185.8	3206.0	3249.9	3276.9	3324.1	3256.7	3192.5	3098.0	3071.0	3060.9
22.5°	3226.3	3260.0	3280.3	3327.5	3398.4	3438.9	3351.2	3270.1	3172.2	3138.5	3098.0
25°	3378.2	3371.4	3405.1	3503.0	3560.4	3590.8	3519.9	3401.7	3273.5	3233.0	3239.7
27.5°	3567.1	3573.8	3604.2	3712.3	3796.6	3843.8	3759.5	3604.2	3479.4	3411.9	3405.1
30°	3813.5	3806.7	3840.5	3985.6	4137.5	4208.3	4059.9	3877.6	3756.1	3668.4	3688.6
32.5°	4073.3	4076.7	4171.2	4302.8	4549.2	4687.6	4447.9	4225.2	4042.9	3982.3	3951.9
35°	4458.1	4474.9	4549.2	4751.7	5025.1	5203.9	4940.7	4674.0	4464.8	4353.5	4366.9
37.5°	4933.9	4917.0	5041.9	5261.3	5548.1	5679.7	5457.0	5153.2	4940.7	4866.4	4913.6
40°	5440.1	5457.0	5521.1	5720.2	6040.8	6128.6	5797.9	5632.5	5446.9	5409.7	5467.1
42.5°	5946.3	5936.2	5983.5	6162.4	6395.2	6334.5	6138.7	6040.8	5909.2	5835.0	5912.6
45°	6317.6	6300.7	6388.4	6509.9	6594.3	6479.6	6391.8	6358.0	6290.5	6209.6	6280.4
47.5°	6678.7	6665.1	6749.5	6783.3	6790.0	6638.2	6655.0	6715.8	6547.1	6378.3	6459.3
50°	6985.8	6962.1	7066.7	7141.0	7124.1	6881.2	6941.9	6881.2	6617.9	6418.8	6388.4
52.5°	7498.7	7508.9	7620.2	7755.2	7714.7	7512.3	7424.5	7147.8	6810.3	6631.4	6526.8
55°	7822.7	7772.1	7964.4	8393.1	8440.3	8231.1	7843.0	7434.6	6928.4	6709.1	6682.0
56°	7519.0	7583.1	7886.8	8366.0	8609.0	8416.7	7853.1	7363.7	6806.9	6509.9	6489.7
57.5°	6746.2	6712.4	7124.1	7778.9	8440.3	8359.3	7576.4	6857.5	6209.6	5875.5	5835.0
60°	4198.2	4296.1	4657.2	5467.1	6351.3	6391.8	5615.6	4998.0	4242.1	3945.1	4016.0
62.5°	1643.5	1559.1	1785.2	2389.3	2996.8	3131.8	2838.2	2358.9	1937.1	1643.5	1623.2
65°	381.3	371.2	418.4	577.1	806.6	934.8	887.5	637.8	469.1	445.4	411.7
67.5°	216.0	216.0	205.9	205.9	226.1	239.6	229.5	226.1	236.2	246.3	243.0
70°	151.9	148.5	141.7	145.1	138.4	138.4	148.5	165.4	178.8	178.8	182.2
72.5°	91.1	91.1	91.1	101.2	101.2	101.2	111.3	124.9	128.3	124.9	121.5
75°	40.5	40.5	47.2	57.4	64.1	67.5	77.6	84.4	91.1	84.4	77.6
77.5°	10.1	10.1	16.9	23.6	30.4	37.1	50.7	60.8	64.1	60.8	50.7
80°	3.4	3.4	6.7	16.9	30.4	37.1	50.7	54.0	57.4	50.7	40.5
82.5°	3.4	3.4	6.7	16.9	23.6	30.4	40.5	47.2	50.7	43.8	40.5
85°	0.0	3.4	6.7	13.5	20.3	27.0	27.0	20.3	16.9	10.1	13.5
87.5°	0.0	0.0	3.4	3.4	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)