

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: P532749

Luminaire Tested: **GALN-SA8A-827-U-5WQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532749  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8A-827-U-5WQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14160 lumens  
Efficiency: N/A  
Efficacy: 58.0 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

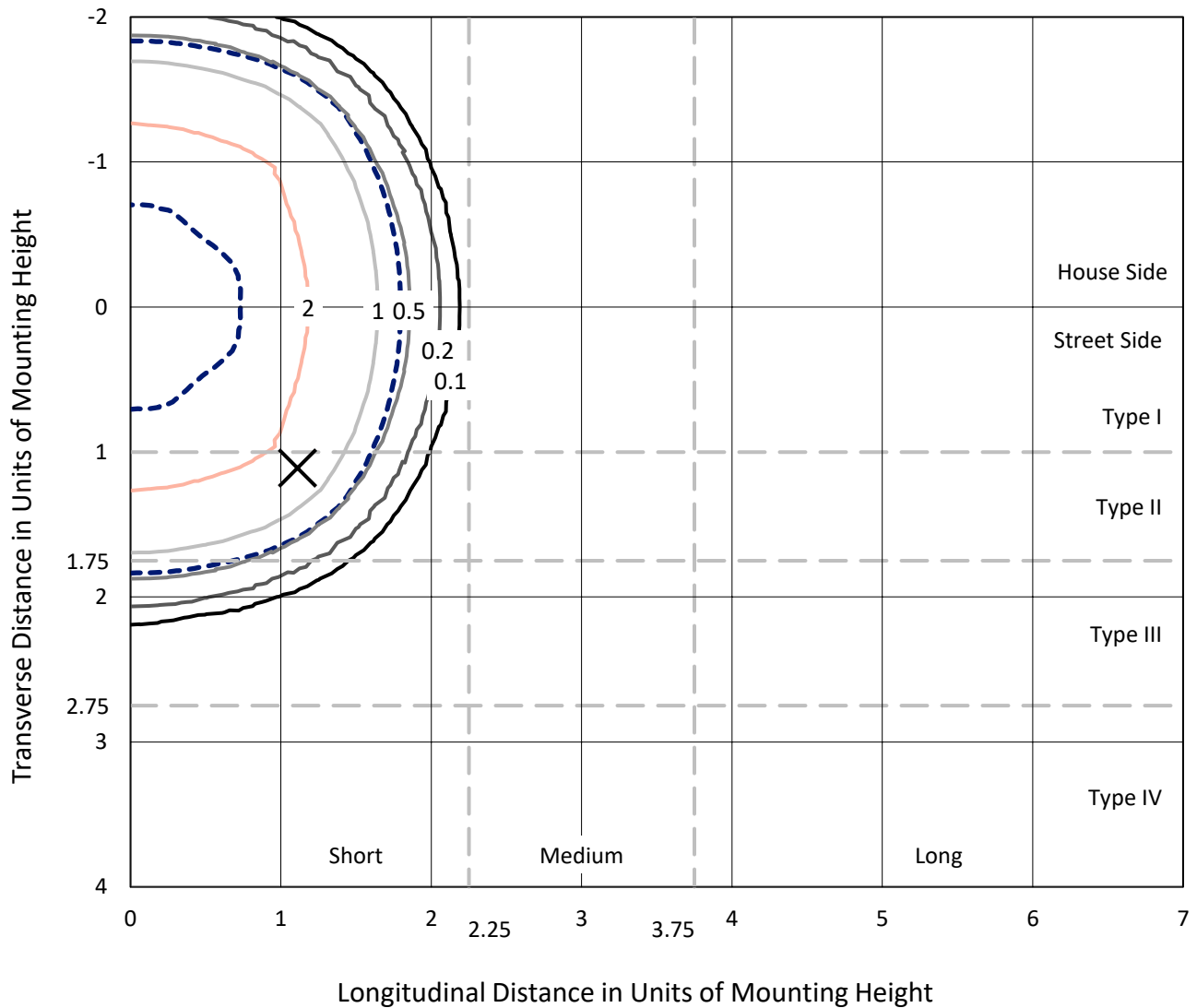
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

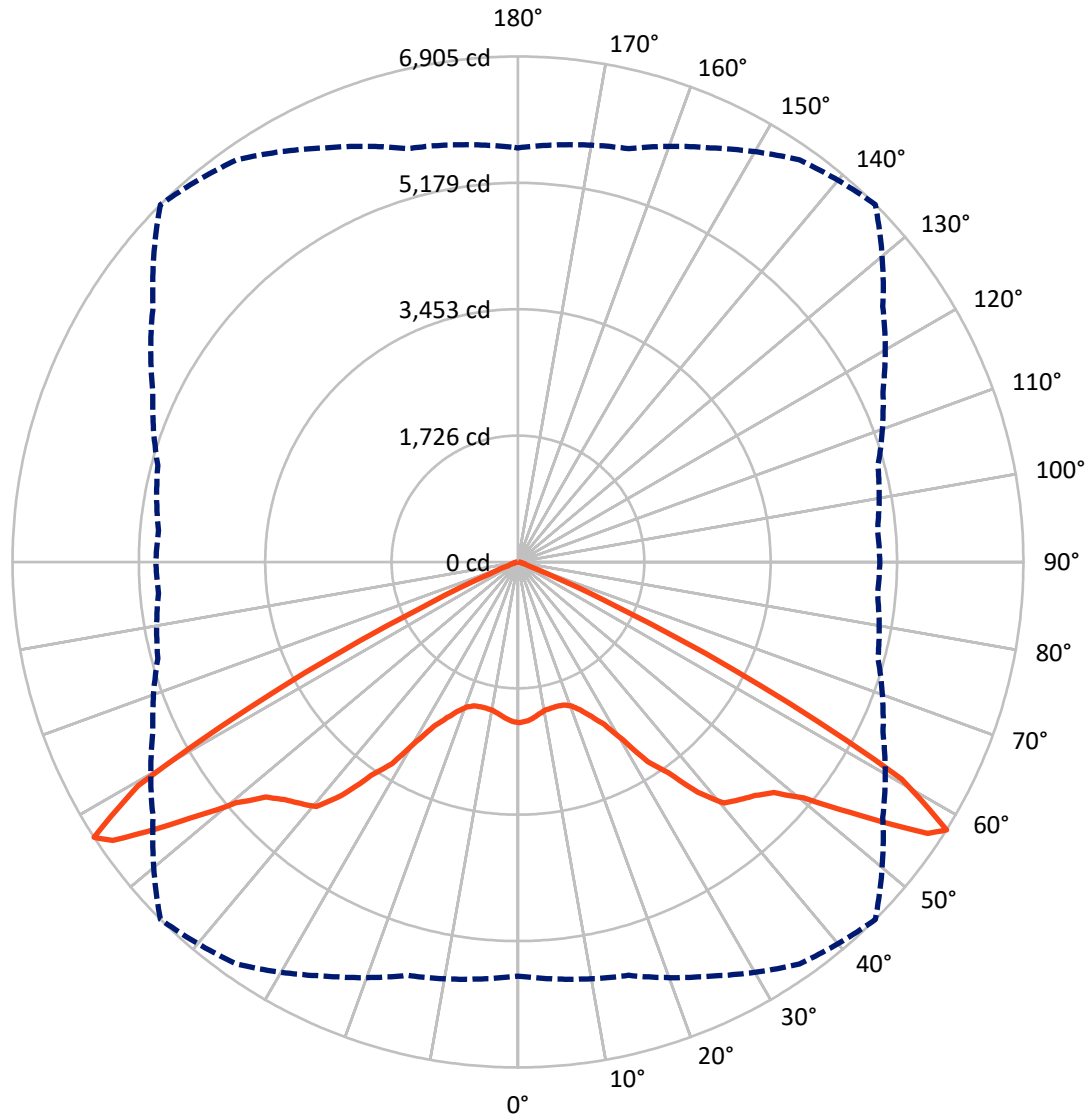
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7080.0	0.0	7080.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7080.0	0.0	7080.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	14160.0	0.0	14160.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	201.8	1.4
10°-20°	583.4	4.1
20°-30°	1076.9	7.6
30°-40°	2117.8	15.0
40°-50°	3449.3	24.4
50°-60°	4919.1	34.7
60°-70°	1703.1	12.0
70°-80°	91.4	0.6
80°-90°	17.2	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°	14160.0	100.0
0°-180°	14160.0	100.0

**Coefficient of Utilization**



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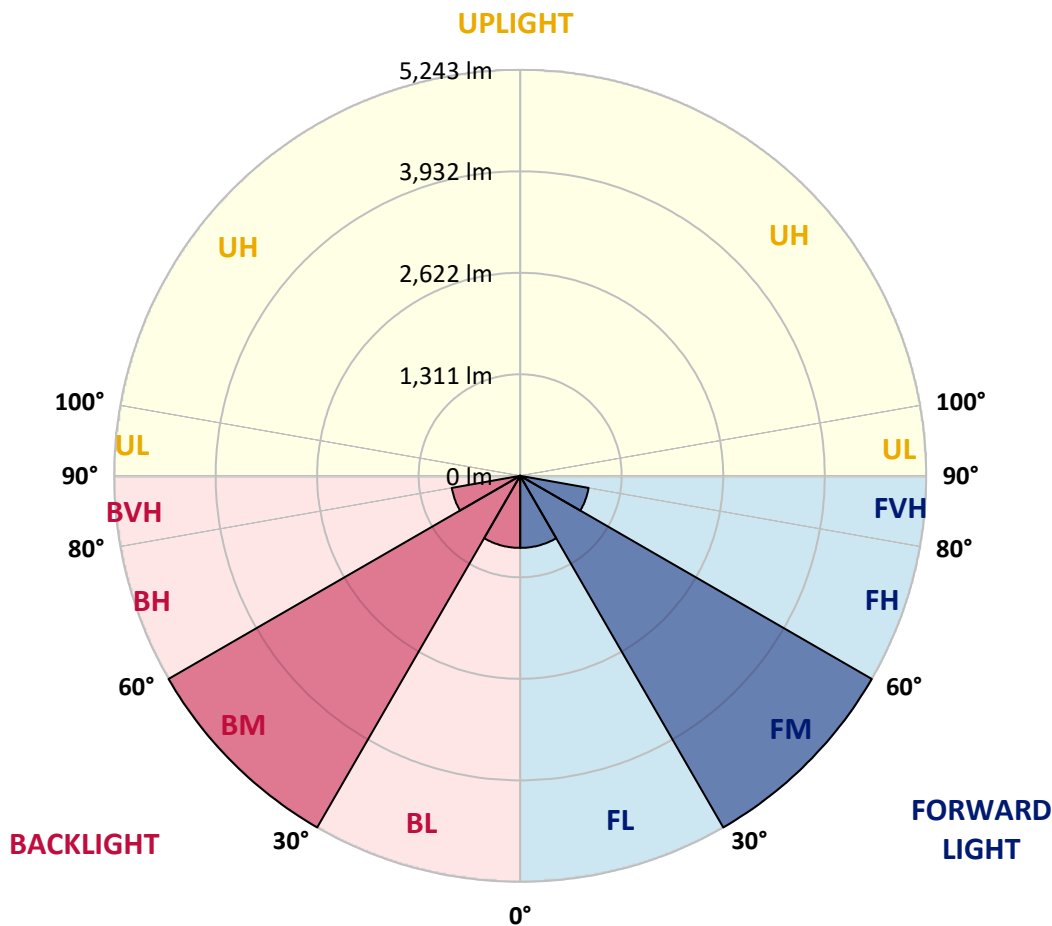
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	931.0	6.6			
FM (30°-60°)	5243.1	37.0			
FH (60°-80°)	897.2	6.3			G1/1800
FVH (80°-90°)	8.6	0.1			G0/10
BL (0°-30°)	931.0	6.6	B2/1000		
BM (30°-60°)	5243.1	37.0	B4/8500		
BH (60°-80°)	897.2	6.3	B2/1000		G1/1800
BVH (80°-90°)	8.6	0.1			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°	2196.4	2196.4	2196.4	2196.4	2196.4	2196.4	2196.4	2196.4	2196.4	2196.4	2196.4
2.5°	2190.5	2202.3	2187.5	2181.6	2178.7	2178.7	2169.8	2169.8	2166.8	2169.8	2158.0
5°	2155.0	2166.8	2166.8	2163.9	2146.2	2143.2	2134.4	2128.5	2131.4	2119.6	2128.5
7.5°	2119.6	2128.5	2116.7	2113.7	2107.8	2096.0	2093.0	2066.5	2069.4	2069.4	2075.3
10°	2113.7	2110.8	2093.0	2078.3	2060.6	2057.6	2048.8	2042.9	2042.9	2039.9	2048.8
12.5°	2113.7	2098.9	2096.0	2063.5	2034.0	2045.8	2022.2	2007.4	2028.1	2034.0	2045.8
15°	2110.8	2125.5	2075.3	2060.6	2039.9	2042.9	2022.2	2007.4	2019.2	2025.1	2034.0
17.5°	2128.5	2119.6	2104.8	2075.3	2066.5	2054.7	2028.1	2016.3	2016.3	2031.0	2034.0
20°	2175.7	2152.1	2122.6	2107.8	2116.7	2101.9	2069.4	2025.1	2037.0	2048.8	2057.6
22.5°	2220.0	2202.3	2181.6	2172.7	2222.9	2199.3	2143.2	2093.0	2075.3	2096.0	2110.8
25°	2305.6	2305.6	2267.2	2279.0	2335.1	2338.1	2273.1	2184.6	2172.7	2181.6	2187.5
27.5°	2479.8	2488.6	2456.1	2468.0	2491.6	2512.2	2456.1	2382.3	2355.8	2352.8	2361.7
30°	2668.7	2686.4	2683.5	2733.6	2801.5	2813.4	2730.7	2609.7	2530.0	2515.2	2527.0
32.5°	2916.7	2925.5	2919.6	2978.7	3161.7	3247.3	3031.8	2860.6	2754.3	2780.9	2754.3
35°	3383.1	3374.3	3309.3	3321.1	3471.7	3533.7	3327.0	3217.8	3167.6	3220.7	3208.9
37.5°	3784.6	3752.1	3699.0	3775.7	3932.2	3988.3	3772.8	3580.9	3489.4	3577.9	3616.3
40°	4124.1	4041.4	3967.6	4044.4	4254.0	4330.7	4014.9	3858.4	3823.0	3887.9	3970.6
42.5°	4410.4	4357.3	4259.9	4265.8	4404.5	4440.0	4186.1	4094.6	4059.1	4162.5	4203.8
45°	4614.1	4564.0	4472.4	4466.5	4572.8	4549.2	4321.9	4259.9	4280.5	4348.4	4369.1
47.5°	4717.5	4744.0	4690.9	4705.7	4761.7	4705.7	4525.6	4525.6	4478.3	4519.7	4499.0
50°	5015.6	4933.0	5000.9	5000.9	5059.9	5065.8	4885.7	4820.8	4693.8	4623.0	4623.0
52.5°	5364.0	5369.9	5396.4	5493.9	5594.2	5679.8	5423.0	5145.5	4933.0	4841.4	4829.6
55°	5650.3	5709.4	5815.6	5998.7	6288.0	6406.1	5963.2	5467.3	5207.5	5065.8	5036.3
56°	5806.8	5750.7	5933.7	6184.7	6562.5	6716.0	6051.8	5532.2	5245.9	5086.5	5083.5
57.5°	5656.2	5718.2	5845.2	6240.7	6704.2	6905.0	6084.3	5502.7	5092.4	4930.0	4944.8
60°	4466.5	4525.6	4696.8	5139.6	5865.8	6022.3	5148.5	4537.4	4171.3	3938.1	3941.1
62.5°	2527.0	2571.3	2704.1	3114.5	3566.1	3716.7	3208.9	2801.5	2547.7	2417.8	2376.4
65°	929.9	912.2	932.9	1142.5	1420.0	1546.9	1334.4	1127.7	994.9	947.6	929.9
67.5°	348.3	321.8	301.1	321.8	404.4	428.1	392.6	327.7	307.0	315.9	321.8
70°	215.5	203.7	162.4	153.5	150.6	147.6	156.5	165.3	188.9	221.4	227.3
72.5°	150.6	141.7	115.1	109.2	103.3	100.4	115.1	126.9	147.6	171.2	174.2
75°	59.0	62.0	59.0	64.9	67.9	70.9	82.7	91.5	100.4	100.4	97.4
77.5°	11.8	11.8	17.7	23.6	29.5	38.4	56.1	64.9	67.9	64.9	56.1
80°	0.0	0.0	5.9	11.8	23.6	32.5	50.2	56.1	62.0	56.1	44.3
82.5°	0.0	0.0	5.9	14.8	23.6	29.5	47.2	59.0	67.9	62.0	47.2
85°	0.0	0.0	5.9	11.8	17.7	20.7	20.7	14.8	14.8	8.9	5.9
87.5°	0.0	0.0	0.0	0.0	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)