

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: P529551

Luminaire Tested: **GALN-SA4D-727-U-5WQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529551  
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-SA4D-727-U-5WQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2700K, 1200mA 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: 13350 lumens  
Efficiency: N/A  
Efficacy: 54.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

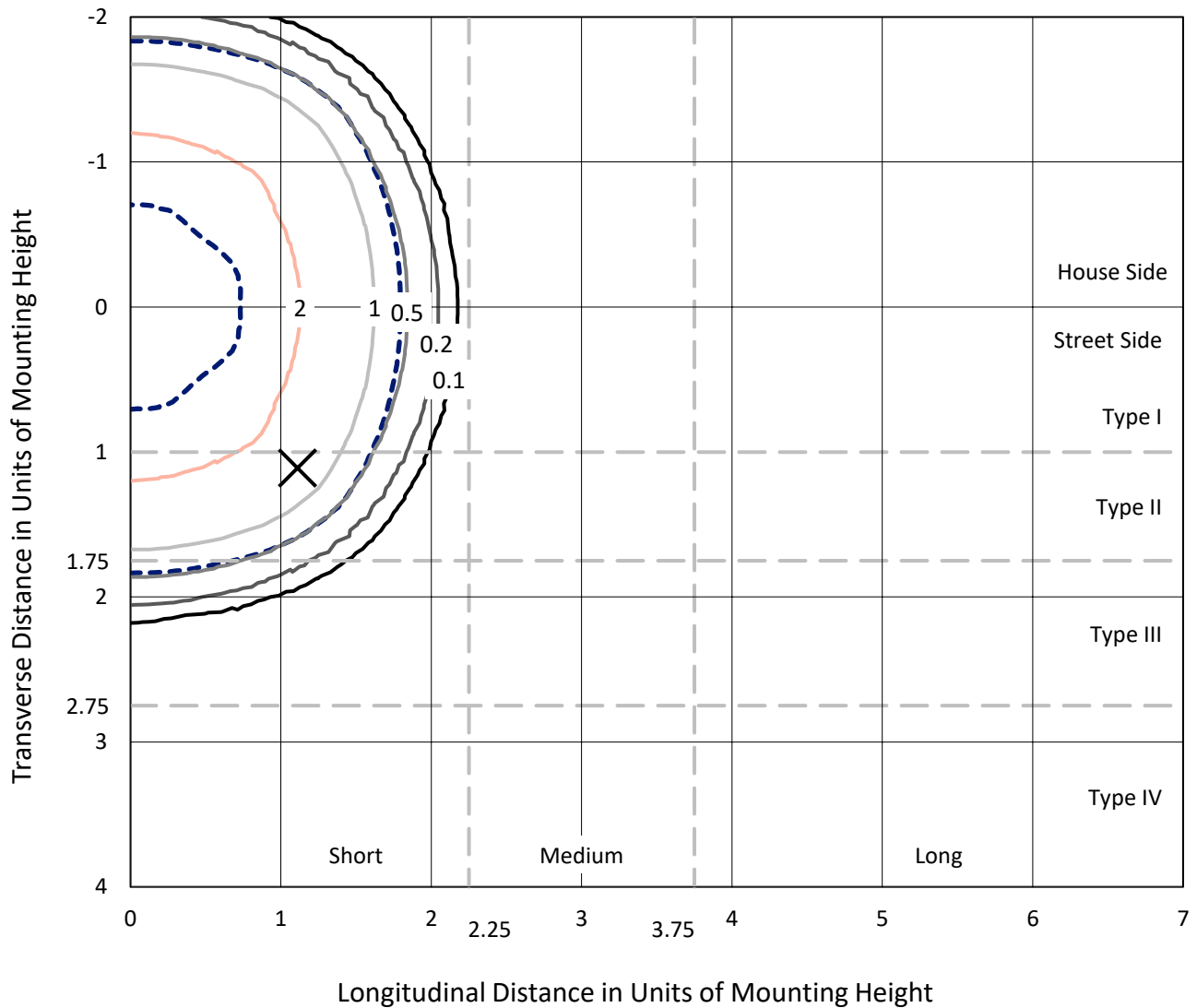
Input Watts (W): 245  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

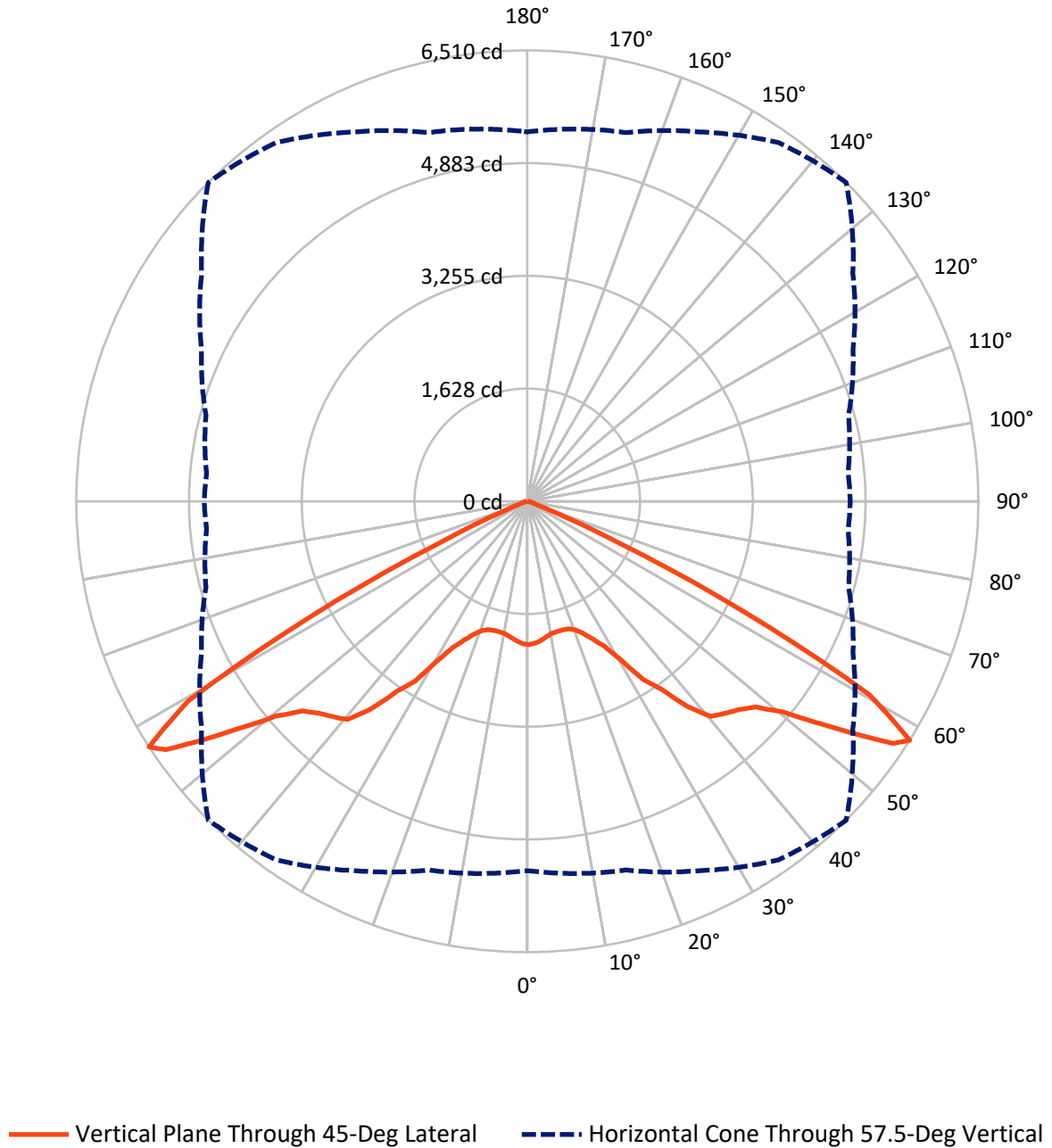
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6675.0	0.0	6675.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6675.0	0.0	6675.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	13350.0	0.0	13350.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	190.3	1.4
10°-20°	550.0	4.1
20°-30°	1015.3	7.6
30°-40°	1996.7	15.0
40°-50°	3252.0	24.4
50°-60°	4637.7	34.7
60°-70°	1605.7	12.0
70°-80°	86.1	0.6
80°-90°	16.2	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°	13350.0	100.0
0°-180°	13350.0	100.0

**Coefficient of Utilization**

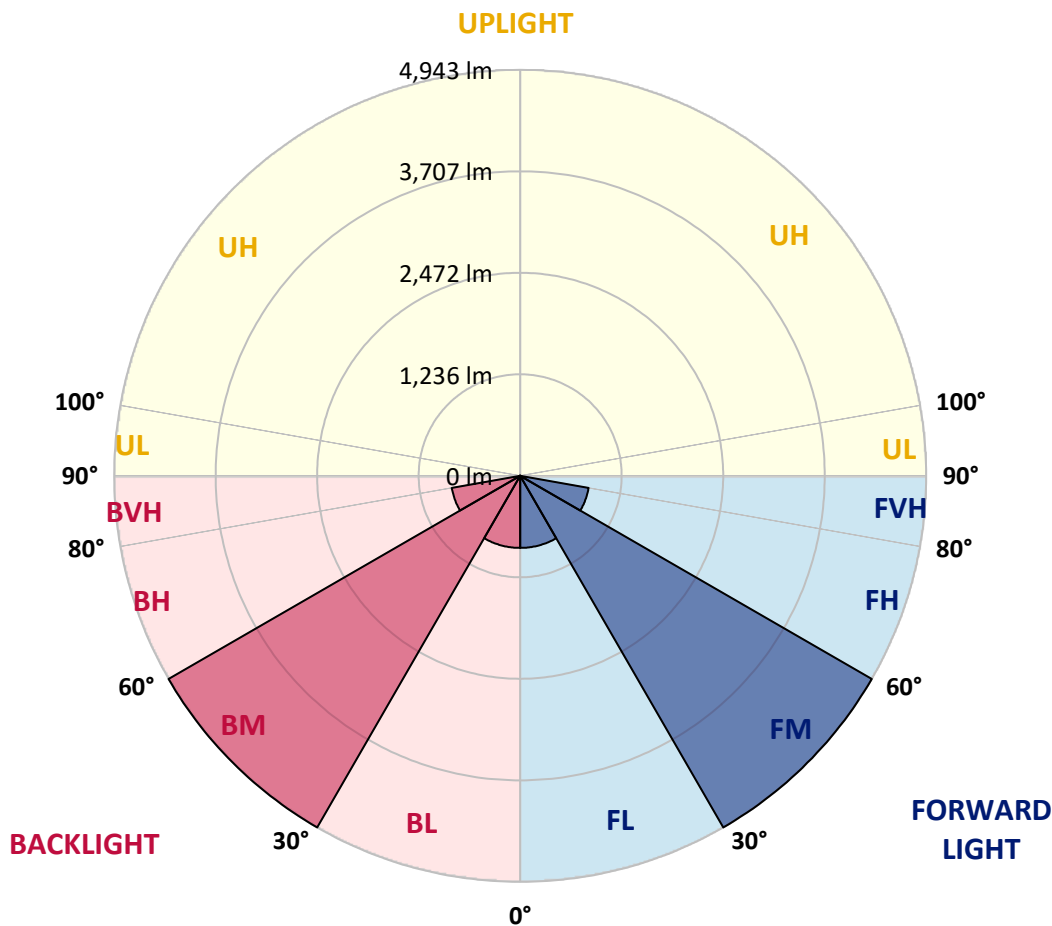


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	877.8	6.6			
FM (30°-60°)	4943.2	37.0			
FH (60°-80°)	845.9	6.3			G1/1800
FVH (80°-90°)	8.1	0.1			G0/10
BL (0°-30°)	877.8	6.6	B2/1000		
BM (30°-60°)	4943.2	37.0	B3/5000		
BH (60°-80°)	845.9	6.3	B2/1000		G1/1800
BVH (80°-90°)	8.1	0.1			G0/10
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°	2070.7	2070.7	2070.7	2070.7	2070.7	2070.7	2070.7	2070.7	2070.7	2070.7	2070.7
2.5°	2065.2	2076.3	2062.4	2056.8	2054.0	2054.0	2045.7	2045.7	2042.9	2045.7	2034.5
5°	2031.8	2042.9	2042.9	2040.1	2023.4	2020.6	2012.3	2006.7	2009.5	1998.4	2006.7
7.5°	1998.4	2006.7	1995.6	1992.8	1987.2	1976.1	1973.3	1948.3	1951.0	1951.0	1956.6
10°	1992.8	1990.0	1973.3	1959.4	1942.7	1939.9	1931.6	1926.0	1926.0	1923.2	1931.6
12.5°	1992.8	1978.9	1976.1	1945.5	1917.6	1928.8	1906.5	1892.6	1912.1	1917.6	1928.8
15°	1990.0	2003.9	1956.6	1942.7	1923.2	1926.0	1906.5	1892.6	1903.7	1909.3	1917.6
17.5°	2006.7	1998.4	1984.4	1956.6	1948.3	1937.1	1912.1	1900.9	1900.9	1914.9	1917.6
20°	2051.2	2029.0	2001.1	1987.2	1995.6	1981.7	1951.0	1909.3	1920.4	1931.6	1939.9
22.5°	2093.0	2076.3	2056.8	2048.5	2095.8	2073.5	2020.6	1973.3	1956.6	1976.1	1990.0
25°	2173.7	2173.7	2137.5	2148.7	2201.5	2204.3	2143.1	2059.6	2048.5	2056.8	2062.4
27.5°	2337.9	2346.3	2315.6	2326.8	2349.0	2368.5	2315.6	2246.1	2221.0	2218.2	2226.6
30°	2516.0	2532.7	2530.0	2577.3	2641.3	2652.4	2574.5	2460.4	2385.2	2371.3	2382.4
32.5°	2749.8	2758.2	2752.6	2808.3	2980.8	3061.6	2858.4	2697.0	2596.8	2621.8	2596.8
35°	3189.6	3181.2	3120.0	3131.1	3273.1	3331.5	3136.7	3033.7	2986.4	3036.5	3025.4
37.5°	3568.1	3537.5	3487.4	3559.8	3707.3	3760.1	3557.0	3376.1	3289.8	3373.3	3409.5
40°	3888.2	3810.2	3740.7	3813.0	4010.6	4083.0	3785.2	3637.7	3604.3	3665.5	3743.4
42.5°	4158.1	4108.1	4016.2	4021.8	4152.6	4186.0	3946.6	3860.3	3826.9	3924.4	3963.3
45°	4350.2	4302.9	4216.6	4211.0	4311.2	4289.0	4074.7	4016.2	4035.7	4099.7	4119.2
47.5°	4447.6	4472.7	4422.6	4436.5	4489.4	4436.5	4266.7	4266.7	4222.2	4261.1	4241.6
50°	4728.7	4650.8	4714.8	4714.8	4770.5	4776.0	4606.2	4545.0	4425.3	4358.5	4358.5
52.5°	5057.1	5062.7	5087.7	5179.6	5274.2	5354.9	5112.8	4851.2	4650.8	4564.5	4553.4
55°	5327.1	5382.8	5483.0	5655.5	5928.3	6039.6	5622.1	5154.5	4909.6	4776.0	4748.2
56°	5474.6	5421.7	5594.3	5830.9	6187.1	6331.9	5705.6	5215.8	4945.8	4795.5	4792.7
57.5°	5332.7	5391.1	5510.8	5883.8	6320.7	6510.0	5736.2	5187.9	4801.1	4648.0	4661.9
60°	4211.0	4266.7	4428.1	4845.6	5530.3	5677.8	4854.0	4277.8	3932.7	3712.8	3715.6
62.5°	2382.4	2424.2	2549.4	2936.3	3362.1	3504.1	3025.4	2641.3	2401.9	2279.5	2240.5
65°	876.7	860.0	879.5	1077.1	1338.7	1458.4	1258.0	1063.2	937.9	893.4	876.7
67.5°	328.4	303.4	283.9	303.4	381.3	403.6	370.2	308.9	289.5	297.8	303.4
70°	203.2	192.0	153.1	144.7	141.9	139.2	147.5	155.9	178.1	208.7	214.3
72.5°	141.9	133.6	108.5	103.0	97.4	94.6	108.5	119.7	139.2	161.4	164.2
75°	55.7	58.4	55.7	61.2	64.0	66.8	77.9	86.3	94.6	94.6	91.8
77.5°	11.1	11.1	16.7	22.3	27.8	36.2	52.9	61.2	64.0	61.2	52.9
80°	0.0	0.0	5.6	11.1	22.3	30.6	47.3	52.9	58.4	52.9	41.7
82.5°	0.0	0.0	5.6	13.9	22.3	27.8	44.5	55.7	64.0	58.4	44.5
85°	0.0	0.0	5.6	11.1	16.7	19.5	19.5	13.9	13.9	8.3	5.6
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)