

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: P529079

Luminaire Tested: **GALN-SA4B-727-U-5MQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529079  
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-SA4B-727-U-5MQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2700K, 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: 11298 lumens  
Efficiency: N/A  
Efficacy: 68.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G0

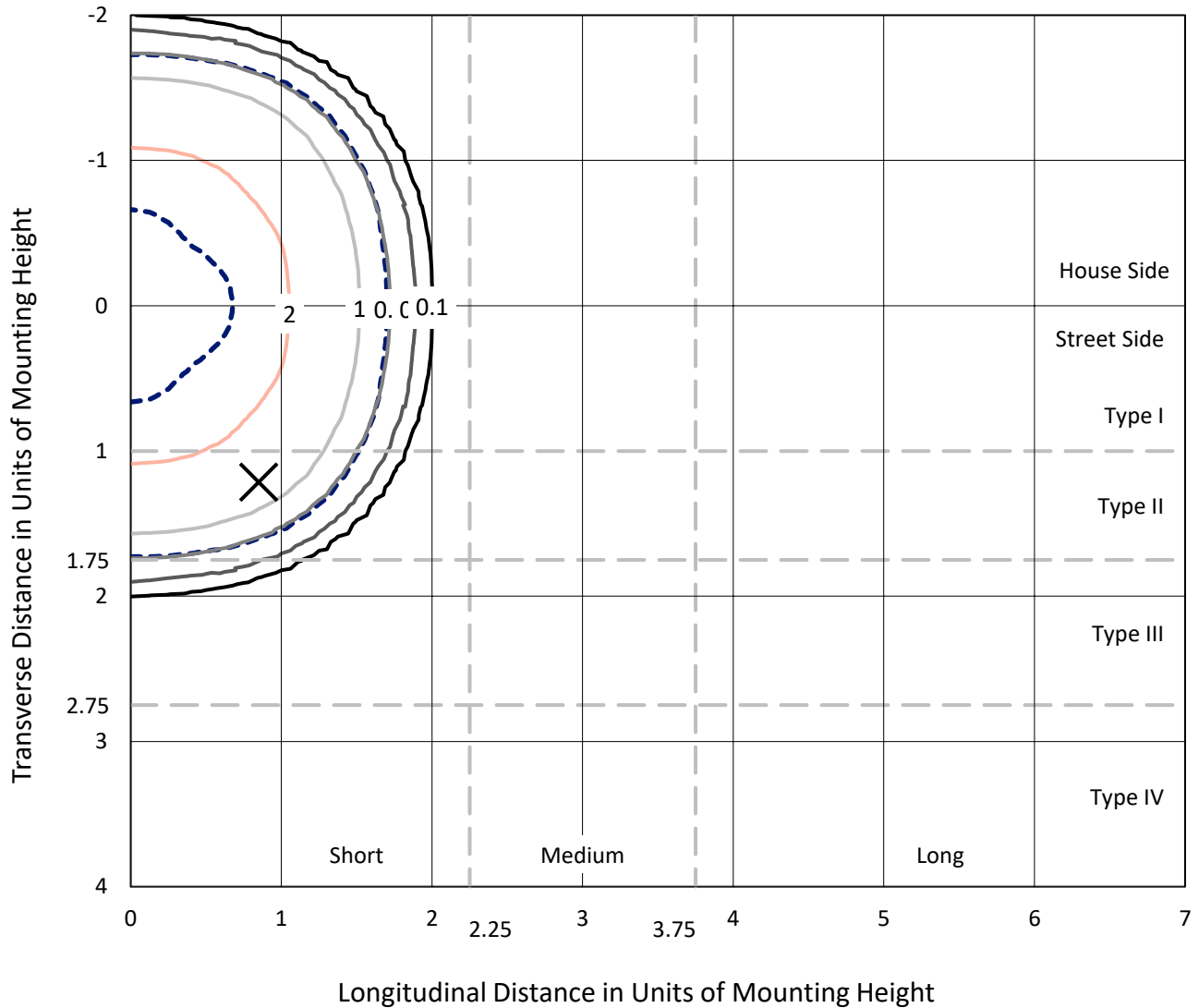
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

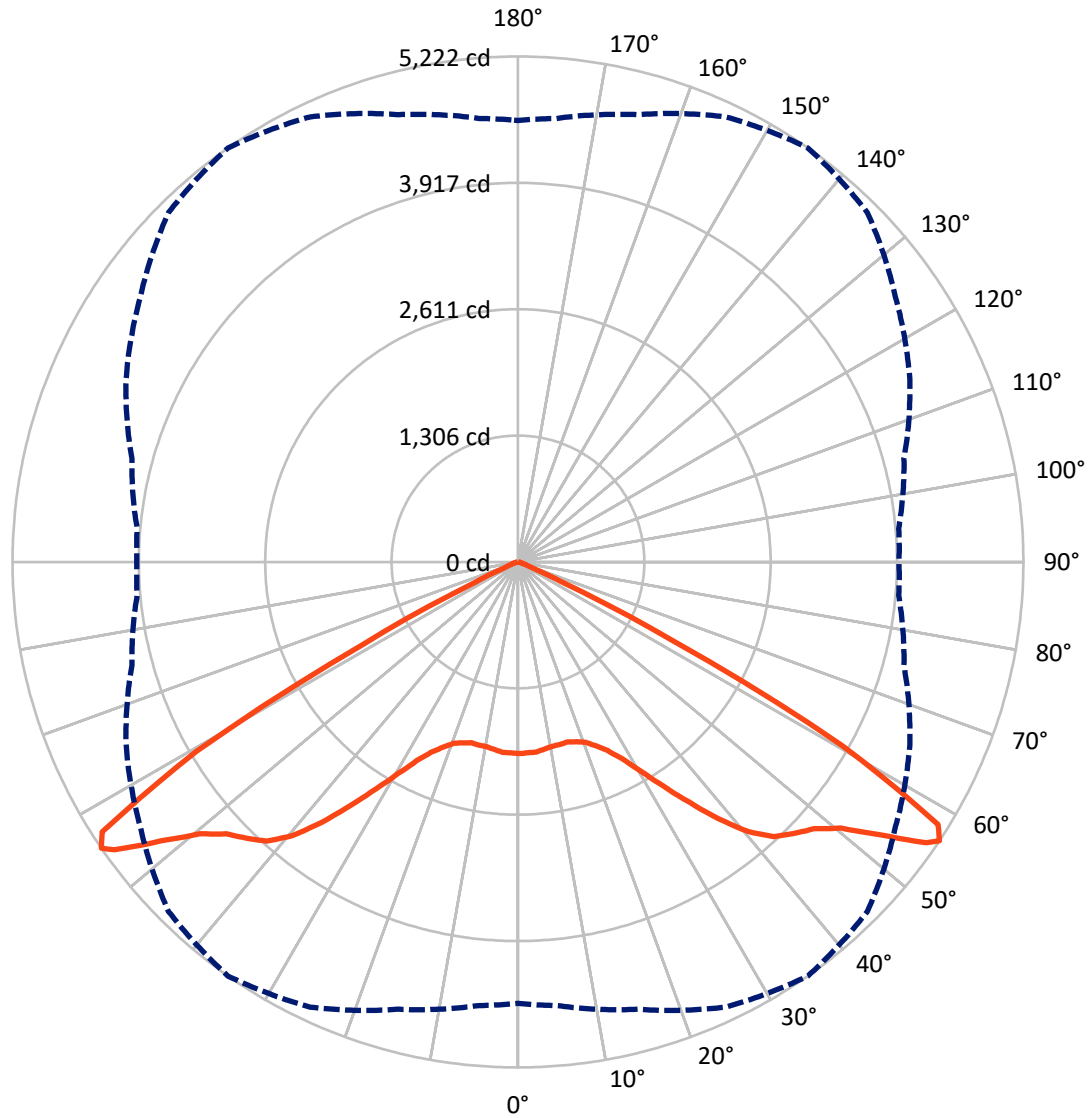
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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	5649.0	0.0	5649.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5649.0	0.0	5649.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	11298.0	0.0	11298.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	186.1	1.6
10°-20°	543.2	4.8
20°-30°	983.6	8.7
30°-40°	1824.0	16.1
40°-50°	2994.0	26.5
50°-60°	3857.2	34.1
60°-70°	850.1	7.5
70°-80°	49.3	0.4
80°-90°	10.4	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°	11298.0	100.0
0°-180°	11298.0	100.0

**Coefficient of Utilization**

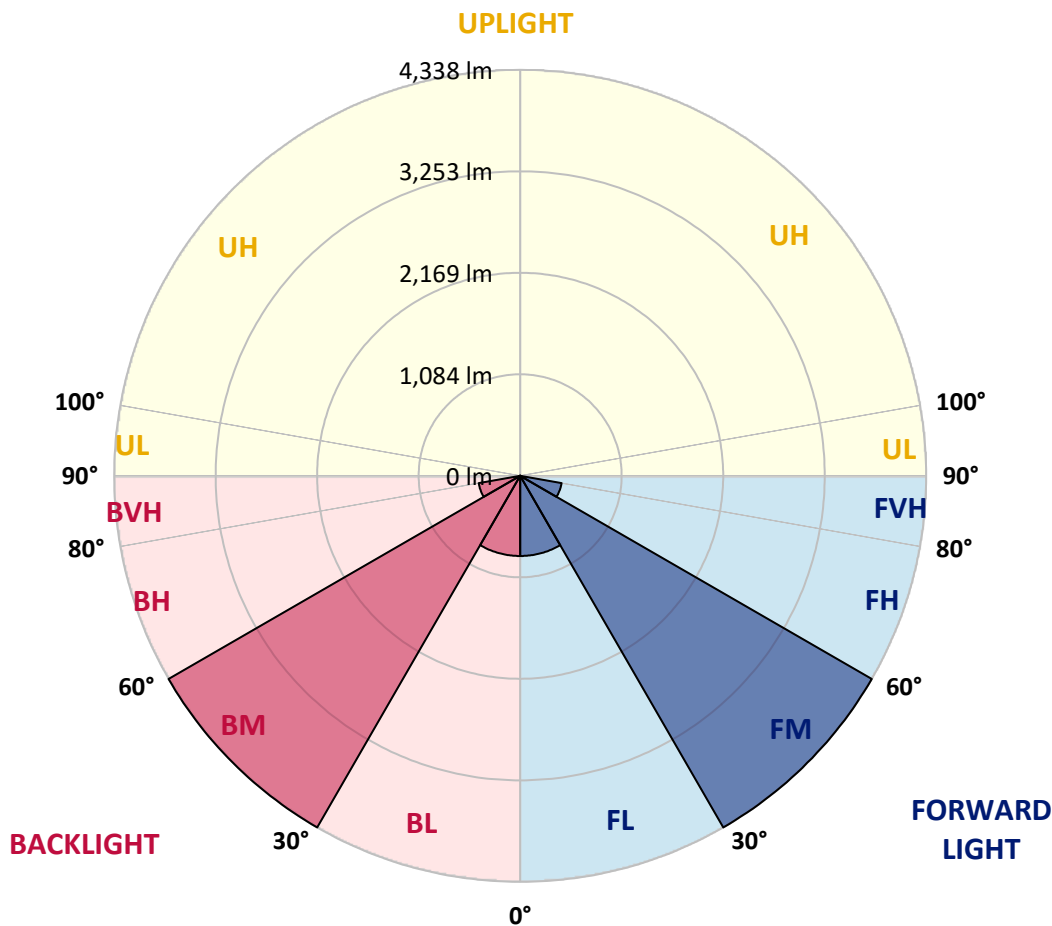


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	856.5	7.6			
FM (30°-60°)	4337.7	38.4			
FH (60°-80°)	449.7	4.0			G0/660
FVH (80°-90°)	5.2	0.0			G0/10
BL (0°-30°)	856.5	7.6	B2/1000		
BM (30°-60°)	4337.7	38.4	B3/5000		
BH (60°-80°)	449.7	4.0	B1/500		G0/660
BVH (80°-90°)	5.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G0**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7	1979.7
2.5°	1983.7	1983.7	1985.8	1987.8	1973.5	1967.4	1969.4	1965.3	1963.3	1969.4	1969.4
5°	1977.6	1977.6	1971.5	1973.5	1973.5	1955.1	1955.1	1959.2	1959.2	1946.9	1942.8
7.5°	1961.2	1957.1	1948.9	1959.2	1953.0	1953.0	1938.7	1928.5	1924.4	1932.6	1924.4
10°	1926.4	1928.5	1936.7	1940.8	1936.7	1948.9	1924.4	1910.0	1895.7	1889.6	1889.6
12.5°	1910.0	1922.3	1910.0	1920.3	1934.6	1924.4	1910.0	1899.8	1879.3	1871.2	1871.2
15°	1908.0	1916.2	1920.3	1934.6	1928.5	1932.6	1903.9	1891.6	1860.9	1846.6	1840.4
17.5°	1906.0	1916.2	1922.3	1948.9	1953.0	1955.1	1932.6	1895.7	1869.1	1854.8	1840.4
20°	1928.5	1932.6	1944.8	1971.5	1987.8	2016.5	1975.6	1936.7	1879.3	1863.0	1856.8
22.5°	1957.1	1977.6	1989.9	2018.5	2061.5	2086.1	2032.9	1983.7	1924.4	1903.9	1879.3
25°	2049.3	2045.2	2065.6	2125.0	2159.8	2178.2	2135.2	2063.6	1985.8	1961.2	1965.3
27.5°	2163.9	2168.0	2186.4	2251.9	2303.1	2331.8	2280.6	2186.4	2110.7	2069.7	2065.6
30°	2313.3	2309.3	2329.7	2417.8	2509.9	2552.9	2462.8	2352.2	2278.5	2225.3	2237.6
32.5°	2471.0	2473.0	2530.4	2610.2	2759.6	2843.6	2698.2	2563.1	2452.6	2415.7	2397.3
35°	2704.4	2714.6	2759.6	2882.5	3048.3	3156.8	2997.1	2835.4	2708.5	2640.9	2649.1
37.5°	2993.0	2982.8	3058.5	3191.6	3365.6	3445.5	3310.3	3126.1	2997.1	2952.1	2980.7
40°	3300.1	3310.3	3349.2	3470.0	3664.5	3717.7	3517.1	3416.8	3304.2	3281.7	3316.5
42.5°	3607.2	3601.0	3629.7	3738.2	3879.5	3842.6	3723.9	3664.5	3584.7	3539.6	3586.7
45°	3832.4	3822.1	3875.4	3949.1	4000.2	3930.6	3877.4	3856.9	3816.0	3766.9	3809.9
47.5°	4051.4	4043.2	4094.4	4114.9	4119.0	4026.9	4037.1	4073.9	3971.6	3869.2	3918.4
50°	4237.7	4223.4	4286.9	4331.9	4321.7	4174.3	4211.1	4174.3	4014.6	3893.8	3875.4
52.5°	4548.9	4555.0	4622.6	4704.5	4679.9	4557.1	4503.9	4336.0	4131.3	4022.8	3959.3
55°	4745.4	4714.7	4831.4	5091.4	5120.1	4993.1	4757.7	4510.0	4202.9	4069.9	4053.5
56°	4561.2	4600.1	4784.3	5075.0	5222.4	5105.7	4763.9	4467.0	4129.2	3949.1	3936.8
57.5°	4092.4	4071.9	4321.7	4718.8	5120.1	5070.9	4596.0	4159.9	3766.9	3564.2	3539.6
60°	2546.7	2606.1	2825.2	3316.5	3852.9	3877.4	3406.6	3031.9	2573.3	2393.2	2436.2
62.5°	997.0	945.8	1083.0	1449.4	1817.9	1899.8	1721.7	1431.0	1175.1	997.0	984.7
65°	231.3	225.2	253.9	350.1	489.3	567.1	538.4	386.9	284.6	270.2	249.8
67.5°	131.0	131.0	124.9	124.9	137.2	145.4	139.2	137.2	143.3	149.4	147.4
70°	92.1	90.1	86.0	88.0	83.9	83.9	90.1	100.3	108.5	108.5	110.5
72.5°	55.3	55.3	55.3	61.4	61.4	61.4	67.6	75.7	77.8	75.7	73.7
75°	24.6	24.6	28.7	34.8	38.9	40.9	47.1	51.2	55.3	51.2	47.1
77.5°	6.1	6.1	10.2	14.3	18.4	22.5	30.7	36.8	38.9	36.8	30.7
80°	2.0	2.0	4.1	10.2	18.4	22.5	30.7	32.8	34.8	30.7	24.6
82.5°	2.0	2.0	4.1	10.2	14.3	18.4	24.6	28.7	30.7	26.6	24.6
85°	0.0	2.0	4.1	8.2	12.3	16.4	16.4	12.3	10.2	6.1	8.2
87.5°	0.0	0.0	2.0	2.0	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)