

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: P529161

Luminaire Tested: **GALN-SA4B-740-U-5WQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529161  
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-SA4B-740-U-5WQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 4000K, 800mA 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: 11742 lumens  
Efficiency: N/A  
Efficacy: 71.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

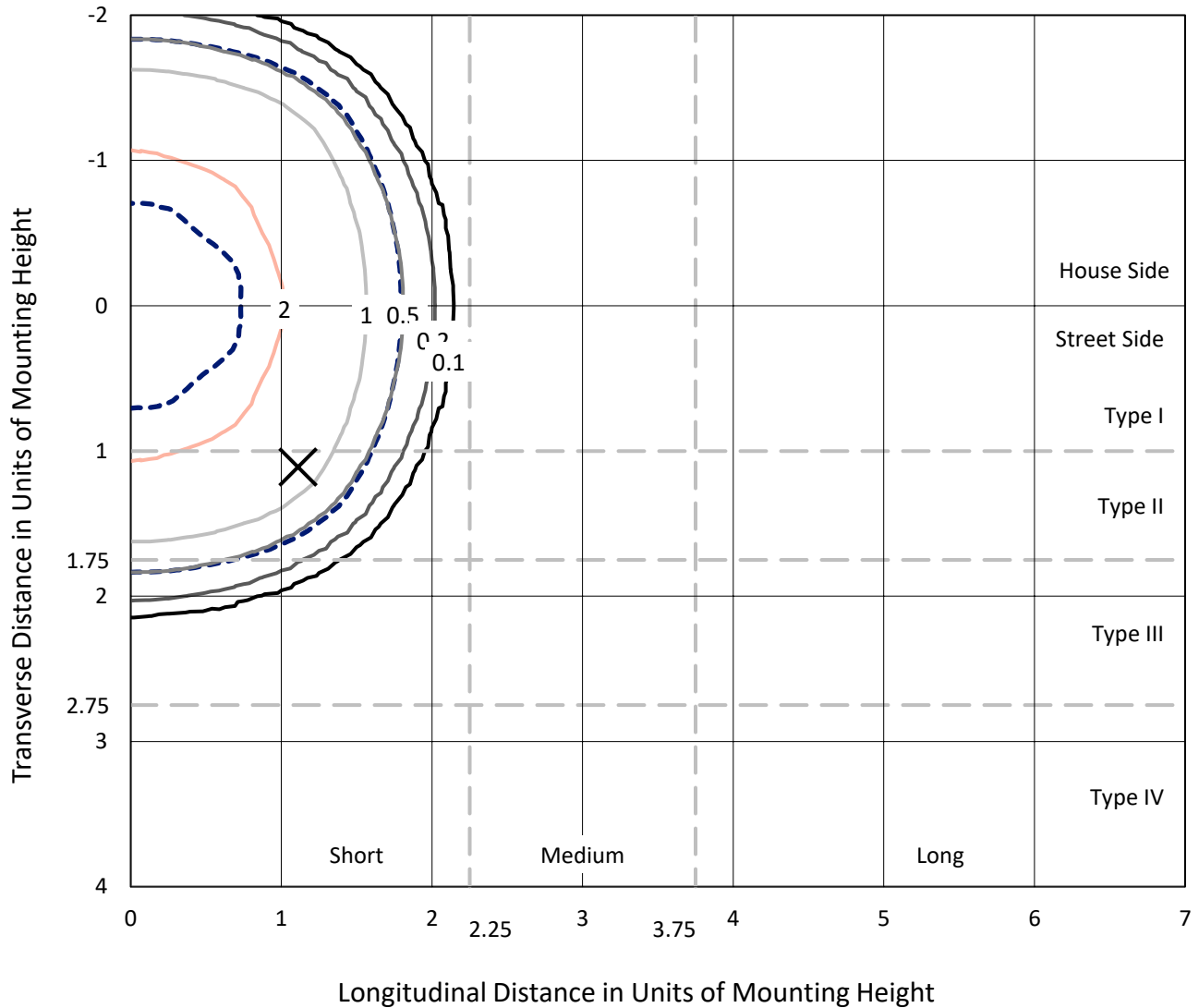
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

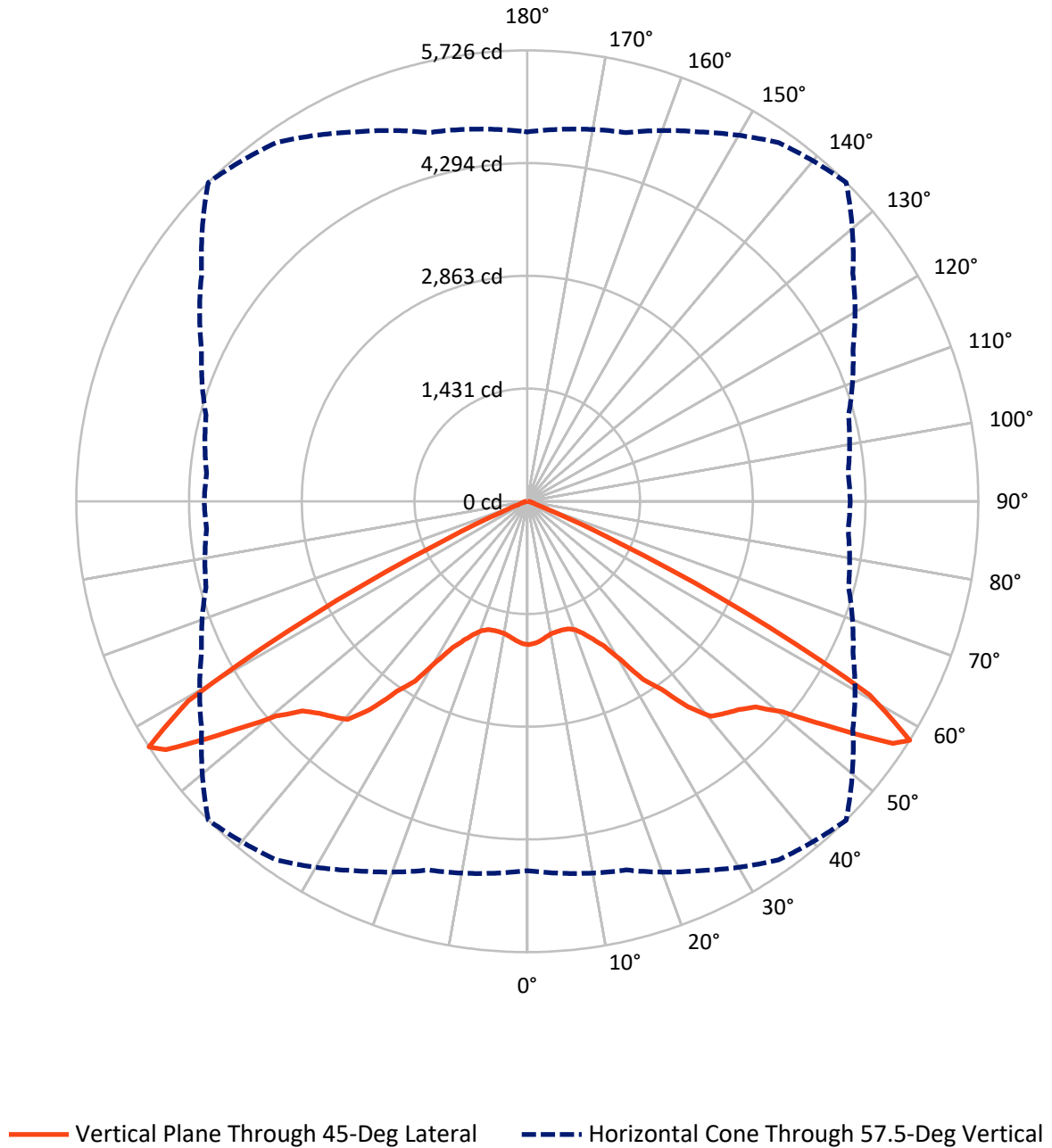
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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	5871.0	0.0	5871.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5871.0	0.0	5871.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	11742.0	0.0	11742.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	167.4	1.4
10°-20°	483.8	4.1
20°-30°	893.0	7.6
30°-40°	1756.2	15.0
40°-50°	2860.3	24.4
50°-60°	4079.1	34.7
60°-70°	1412.3	12.0
70°-80°	75.8	0.6
80°-90°	14.2	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°	11742.0	100.0
0°-180°	11742.0	100.0

**Coefficient of Utilization**

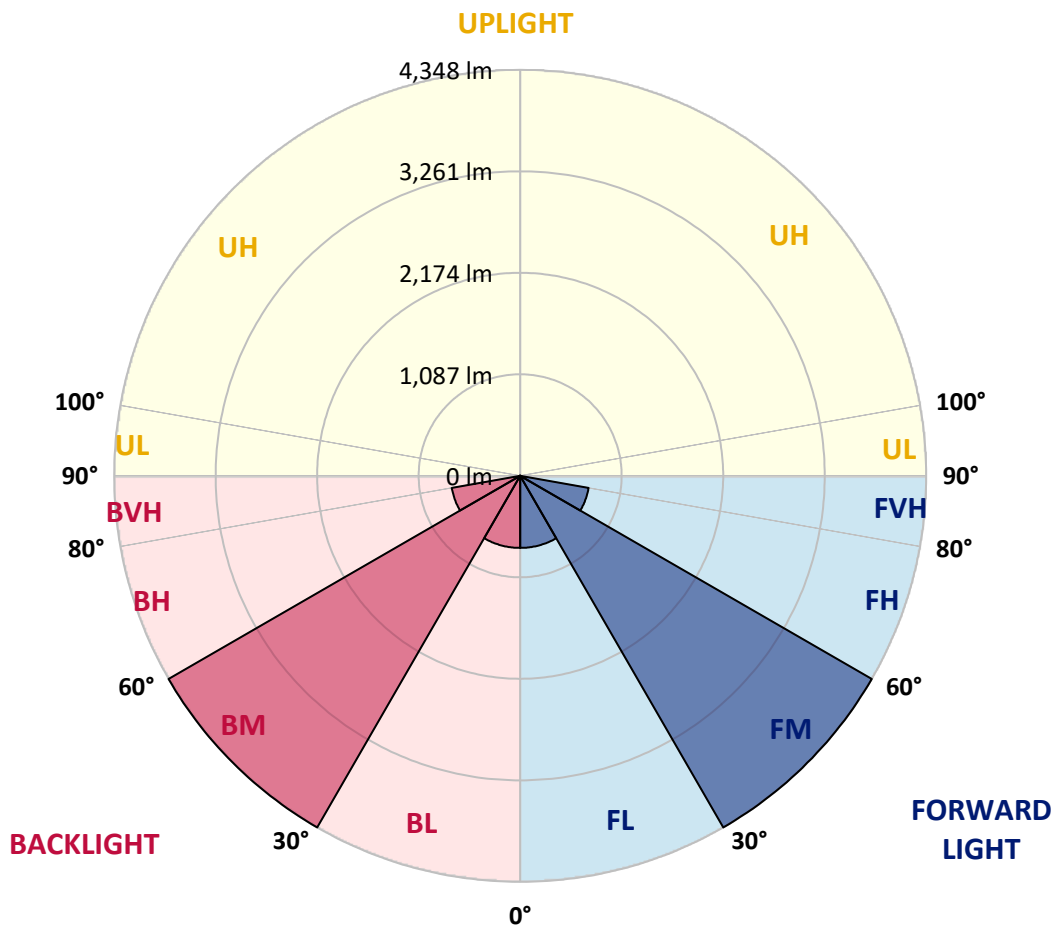


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	772.1	6.6			
FM (30°-60°)	4347.8	37.0			
FH (60°-80°)	744.0	6.3			G1/1800
FVH (80°-90°)	7.1	0.1			G0/10
BL (0°-30°)	772.1	6.6	B2/1000		
BM (30°-60°)	4347.8	37.0	B3/5000		
BH (60°-80°)	744.0	6.3	B2/1000		G1/1800
BVH (80°-90°)	7.1	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°	1821.3	1821.3	1821.3	1821.3	1821.3	1821.3	1821.3	1821.3	1821.3	1821.3	1821.3
2.5°	1816.4	1826.2	1814.0	1809.1	1806.6	1806.6	1799.3	1799.3	1796.8	1799.3	1789.5
5°	1787.0	1796.8	1796.8	1794.4	1779.7	1777.2	1769.9	1765.0	1767.5	1757.7	1765.0
7.5°	1757.7	1765.0	1755.2	1752.8	1747.9	1738.1	1735.6	1713.6	1716.0	1716.0	1720.9
10°	1752.8	1750.3	1735.6	1723.4	1708.7	1706.3	1698.9	1694.0	1694.0	1691.6	1698.9
12.5°	1752.8	1740.5	1738.1	1711.1	1686.7	1696.5	1676.9	1664.6	1681.8	1686.7	1696.5
15°	1750.3	1762.6	1720.9	1708.7	1691.6	1694.0	1676.9	1664.6	1674.4	1679.3	1686.7
17.5°	1765.0	1757.7	1745.4	1720.9	1713.6	1703.8	1681.8	1672.0	1672.0	1684.2	1686.7
20°	1804.2	1784.6	1760.1	1747.9	1755.2	1743.0	1716.0	1679.3	1689.1	1698.9	1706.3
22.5°	1840.9	1826.2	1809.1	1801.7	1843.3	1823.8	1777.2	1735.6	1720.9	1738.1	1750.3
25°	1911.9	1911.9	1880.1	1889.9	1936.4	1938.8	1885.0	1811.5	1801.7	1809.1	1814.0
27.5°	2056.3	2063.7	2036.7	2046.5	2066.1	2083.2	2036.7	1975.5	1953.5	1951.1	1958.4
30°	2213.0	2227.7	2225.2	2266.8	2323.1	2332.9	2264.4	2164.0	2097.9	2085.7	2095.5
32.5°	2418.6	2426.0	2421.1	2470.0	2621.8	2692.8	2514.1	2372.1	2284.0	2306.0	2284.0
35°	2805.4	2798.1	2744.2	2754.0	2878.8	2930.2	2758.9	2668.3	2626.7	2670.8	2661.0
37.5°	3138.3	3111.4	3067.3	3131.0	3260.7	3307.2	3128.5	2969.4	2893.5	2967.0	2998.8
40°	3419.8	3351.3	3290.1	3353.8	3527.6	3591.2	3329.3	3199.5	3170.2	3224.0	3292.6
42.5°	3657.3	3613.2	3532.5	3537.4	3652.4	3681.8	3471.3	3395.4	3366.0	3451.7	3485.9
45°	3826.2	3784.6	3708.7	3703.8	3791.9	3772.4	3583.9	3532.5	3549.6	3605.9	3623.0
47.5°	3911.9	3933.9	3889.9	3902.1	3948.6	3902.1	3752.8	3752.8	3713.6	3747.9	3730.7
50°	4159.1	4090.6	4146.9	4146.9	4195.9	4200.8	4051.4	3997.6	3892.3	3833.6	3833.6
52.5°	4448.0	4452.9	4474.9	4555.7	4638.9	4709.9	4497.0	4266.9	4090.6	4014.7	4004.9
55°	4685.5	4734.4	4822.5	4974.3	5214.2	5312.1	4944.9	4533.7	4318.3	4200.8	4176.3
56°	4815.2	4768.7	4920.5	5128.5	5441.9	5569.2	5018.4	4587.5	4350.1	4217.9	4215.4
57.5°	4690.4	4741.8	4847.0	5175.1	5559.4	5725.9	5045.3	4563.1	4222.8	4088.1	4100.4
60°	3703.8	3752.8	3894.8	4262.0	4864.2	4993.9	4269.3	3762.6	3459.0	3265.6	3268.1
62.5°	2095.5	2132.2	2242.4	2582.6	2957.2	3082.0	2661.0	2323.1	2112.6	2004.9	1970.6
65°	771.1	756.4	773.6	947.4	1177.5	1282.7	1106.5	935.1	825.0	785.8	771.1
67.5°	288.9	266.8	249.7	266.8	335.4	355.0	325.6	271.7	254.6	261.9	266.8
70°	178.7	168.9	134.6	127.3	124.8	122.4	129.7	137.1	156.7	183.6	188.5
72.5°	124.8	117.5	95.5	90.6	85.7	83.2	95.5	105.3	122.4	142.0	144.4
75°	49.0	51.4	49.0	53.9	56.3	58.8	68.5	75.9	83.2	83.2	80.8
77.5°	9.8	9.8	14.7	19.6	24.5	31.8	46.5	53.9	56.3	53.9	46.5
80°	0.0	0.0	4.9	9.8	19.6	26.9	41.6	46.5	51.4	46.5	36.7
82.5°	0.0	0.0	4.9	12.2	19.6	24.5	39.2	49.0	56.3	51.4	39.2
85°	0.0	0.0	4.9	9.8	14.7	17.1	17.1	12.2	12.2	7.3	4.9
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)