

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: P529317

Luminaire Tested: **GALN-SA4C-727-U-5WQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529317  
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-SA4C-727-U-5WQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2700K, 1050mA 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: 12132 lumens  
Efficiency: N/A  
Efficacy: 57.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

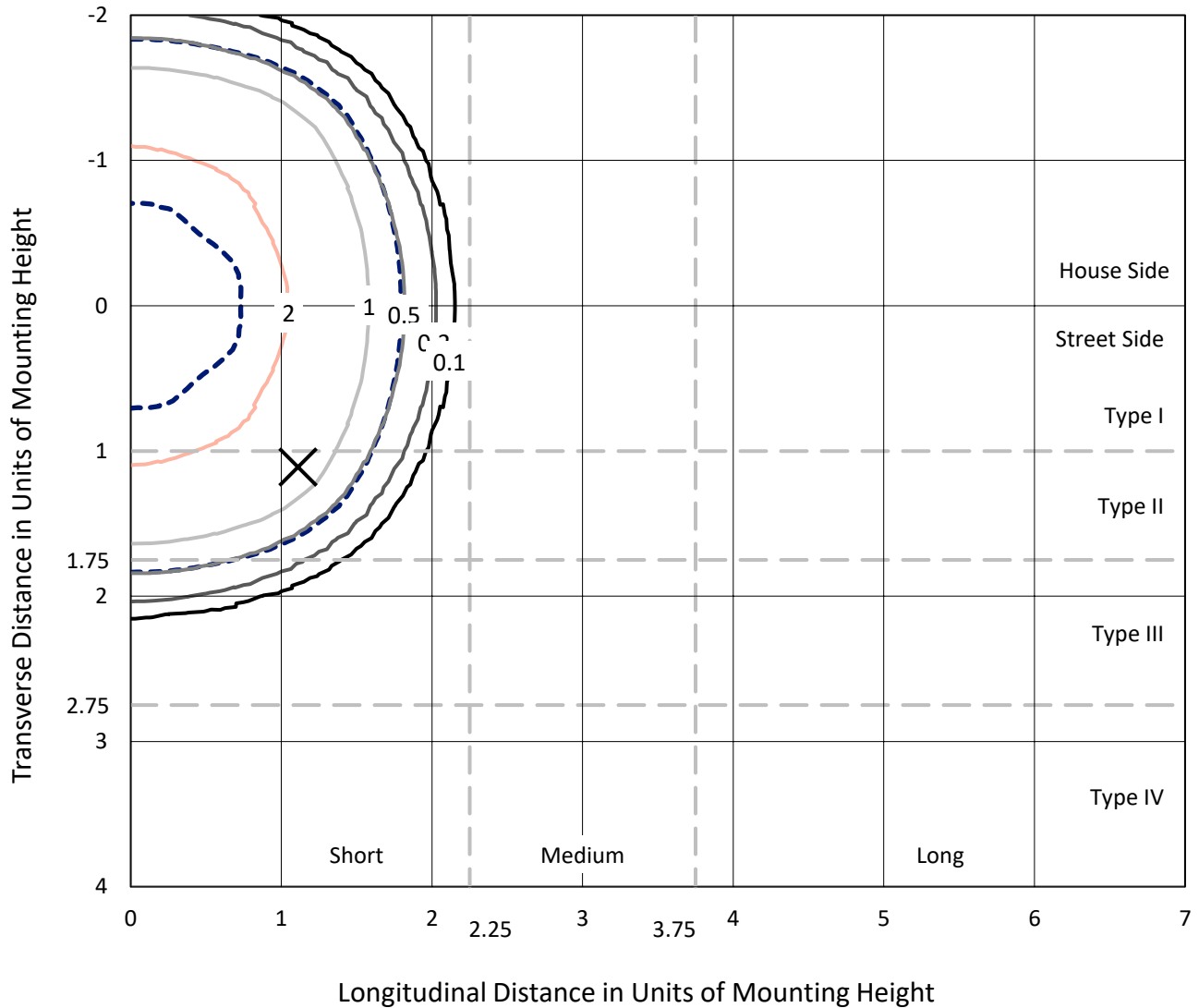
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

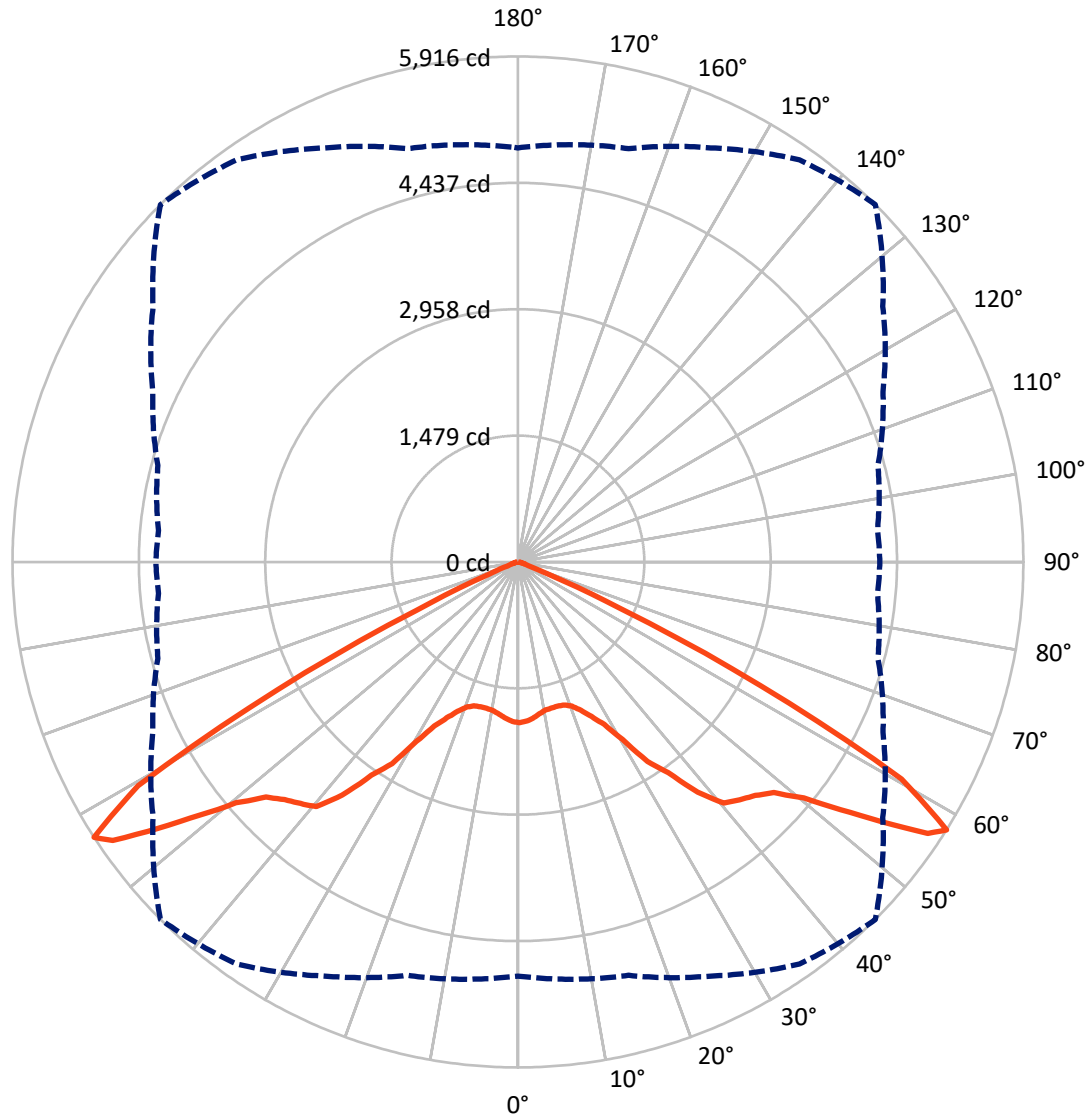
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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	6066.0	0.0	6066.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6066.0	0.0	6066.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	12132.0	0.0	12132.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	172.9	1.4
10°-20°	499.8	4.1
20°-30°	922.6	7.6
30°-40°	1814.5	15.0
40°-50°	2955.3	24.4
50°-60°	4214.6	34.7
60°-70°	1459.2	12.0
70°-80°	78.3	0.6
80°-90°	14.7	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°	12132.0	100.0
0°-180°	12132.0	100.0

**Coefficient of Utilization**

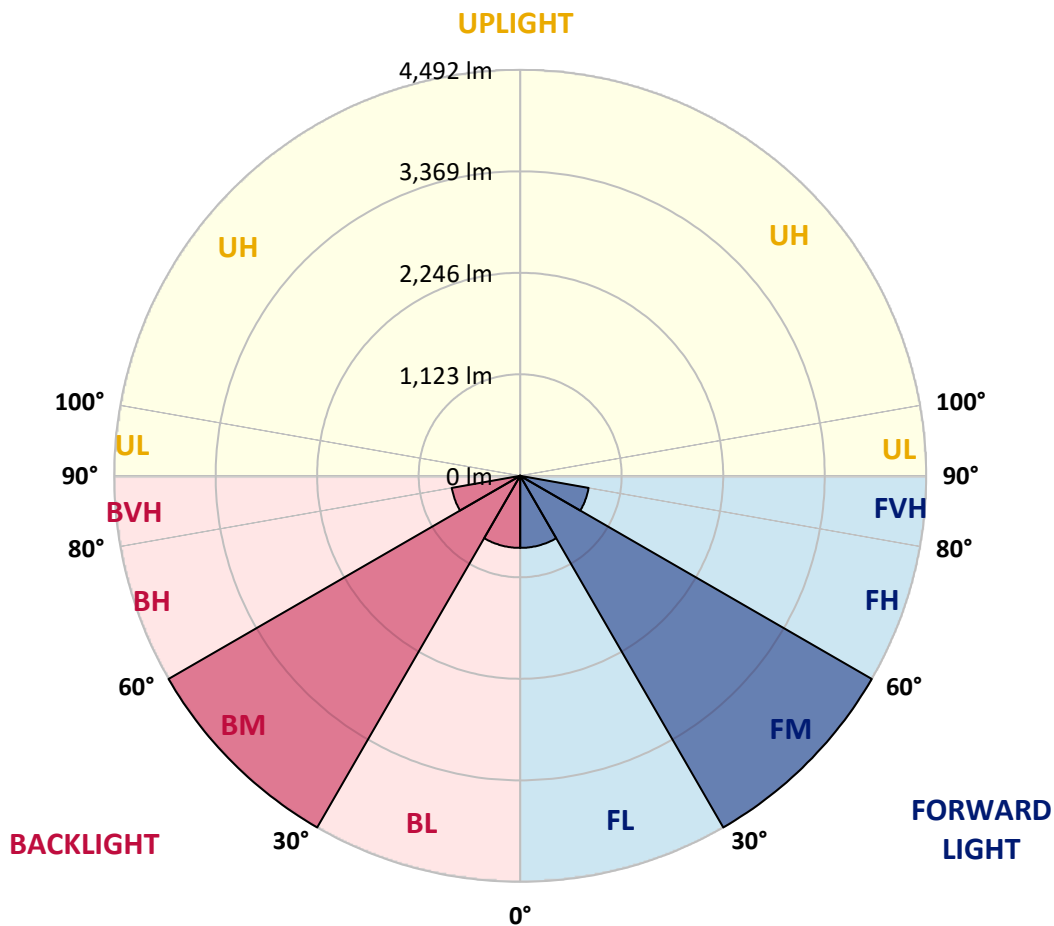


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	797.7	6.6			
FM (30°-60°)	4492.2	37.0			
FH (60°-80°)	768.7	6.3			G1/1800
FVH (80°-90°)	7.4	0.1			G0/10
BL (0°-30°)	797.7	6.6	B2/1000		
BM (30°-60°)	4492.2	37.0	B3/5000		
BH (60°-80°)	768.7	6.3	B2/1000		G1/1800
BVH (80°-90°)	7.4	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°	1881.8	1881.8	1881.8	1881.8	1881.8	1881.8	1881.8	1881.8	1881.8	1881.8	1881.8
2.5°	1876.7	1886.9	1874.2	1869.2	1866.6	1866.6	1859.0	1859.0	1856.5	1859.0	1848.9
5°	1846.4	1856.5	1856.5	1854.0	1838.8	1836.3	1828.7	1823.6	1826.2	1816.0	1823.6
7.5°	1816.0	1823.6	1813.5	1811.0	1805.9	1795.8	1793.3	1770.5	1773.0	1773.0	1778.1
10°	1811.0	1808.5	1793.3	1780.6	1765.5	1762.9	1755.3	1750.3	1750.3	1747.7	1755.3
12.5°	1811.0	1798.3	1795.8	1768.0	1742.7	1752.8	1732.6	1719.9	1737.6	1742.7	1752.8
15°	1808.5	1821.1	1778.1	1765.5	1747.7	1750.3	1732.6	1719.9	1730.0	1735.1	1742.7
17.5°	1823.6	1816.0	1803.4	1778.1	1770.5	1760.4	1737.6	1727.5	1727.5	1740.2	1742.7
20°	1864.1	1843.9	1818.6	1805.9	1813.5	1800.9	1773.0	1735.1	1745.2	1755.3	1762.9
22.5°	1902.0	1886.9	1869.2	1861.6	1904.6	1884.3	1836.3	1793.3	1778.1	1795.8	1808.5
25°	1975.4	1975.4	1942.5	1952.6	2000.7	2003.2	1947.6	1871.7	1861.6	1869.2	1874.2
27.5°	2124.6	2132.2	2104.4	2114.5	2134.7	2152.4	2104.4	2041.1	2018.4	2015.9	2023.4
30°	2286.5	2301.7	2299.1	2342.1	2400.3	2410.4	2339.6	2235.9	2167.6	2155.0	2165.1
32.5°	2498.9	2506.5	2501.5	2552.1	2708.9	2782.2	2597.6	2450.9	2359.8	2382.6	2359.8
35°	2898.6	2891.0	2835.3	2845.5	2974.5	3027.6	2850.5	2756.9	2713.9	2759.5	2749.4
37.5°	3242.6	3214.7	3169.2	3235.0	3369.0	3417.1	3232.4	3068.0	2989.6	3065.5	3098.4
40°	3533.4	3462.6	3399.4	3465.1	3644.7	3710.5	3439.8	3305.8	3275.4	3331.1	3401.9
42.5°	3778.8	3733.2	3649.8	3654.8	3773.7	3804.1	3586.5	3508.1	3477.8	3566.3	3601.7
45°	3953.3	3910.3	3831.9	3826.8	3917.9	3897.7	3702.9	3649.8	3667.5	3725.7	3743.4
47.5°	4041.8	4064.6	4019.1	4031.7	4079.8	4031.7	3877.4	3877.4	3837.0	3872.4	3854.7
50°	4297.3	4226.5	4284.6	4284.6	4335.2	4340.3	4186.0	4130.3	4021.6	3960.9	3960.9
52.5°	4595.7	4600.8	4623.6	4707.0	4793.0	4866.4	4646.3	4408.6	4226.5	4148.1	4137.9
55°	4841.1	4891.7	4982.7	5139.5	5387.4	5488.6	5109.2	4684.3	4461.7	4340.3	4315.0
56°	4975.1	4927.1	5083.9	5298.9	5622.6	5754.2	5185.1	4739.9	4494.6	4358.0	4355.5
57.5°	4846.1	4899.3	5008.0	5346.9	5744.0	5916.0	5212.9	4714.6	4363.0	4223.9	4236.6
60°	3826.8	3877.4	4024.1	4403.5	5025.7	5159.8	4411.1	3887.5	3573.9	3374.1	3376.6
62.5°	2165.1	2203.0	2316.8	2668.4	3055.4	3184.4	2749.4	2400.3	2182.8	2071.5	2036.1
65°	796.7	781.6	799.3	978.8	1216.6	1325.4	1143.2	966.2	852.4	811.9	796.7
67.5°	298.5	275.7	258.0	275.7	346.5	366.7	336.4	280.8	263.0	270.6	275.7
70°	184.6	174.5	139.1	131.5	129.0	126.5	134.1	141.6	161.9	189.7	194.8
72.5°	129.0	121.4	98.6	93.6	88.5	86.0	98.6	108.8	126.5	146.7	149.2
75°	50.6	53.1	50.6	55.6	58.2	60.7	70.8	78.4	86.0	86.0	83.5
77.5°	10.1	10.1	15.2	20.2	25.3	32.9	48.1	55.6	58.2	55.6	48.1
80°	0.0	0.0	5.1	10.1	20.2	27.8	43.0	48.1	53.1	48.1	37.9
82.5°	0.0	0.0	5.1	12.6	20.2	25.3	40.5	50.6	58.2	53.1	40.5
85°	0.0	0.0	5.1	10.1	15.2	17.7	17.7	12.6	12.6	7.6	5.1
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)