

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: P529235

Luminaire Tested: **GALN-SA4B-827-U-5MQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529235  
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-827-U-5MQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 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: 9931 lumens  
Efficiency: N/A  
Efficacy: 60.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G0

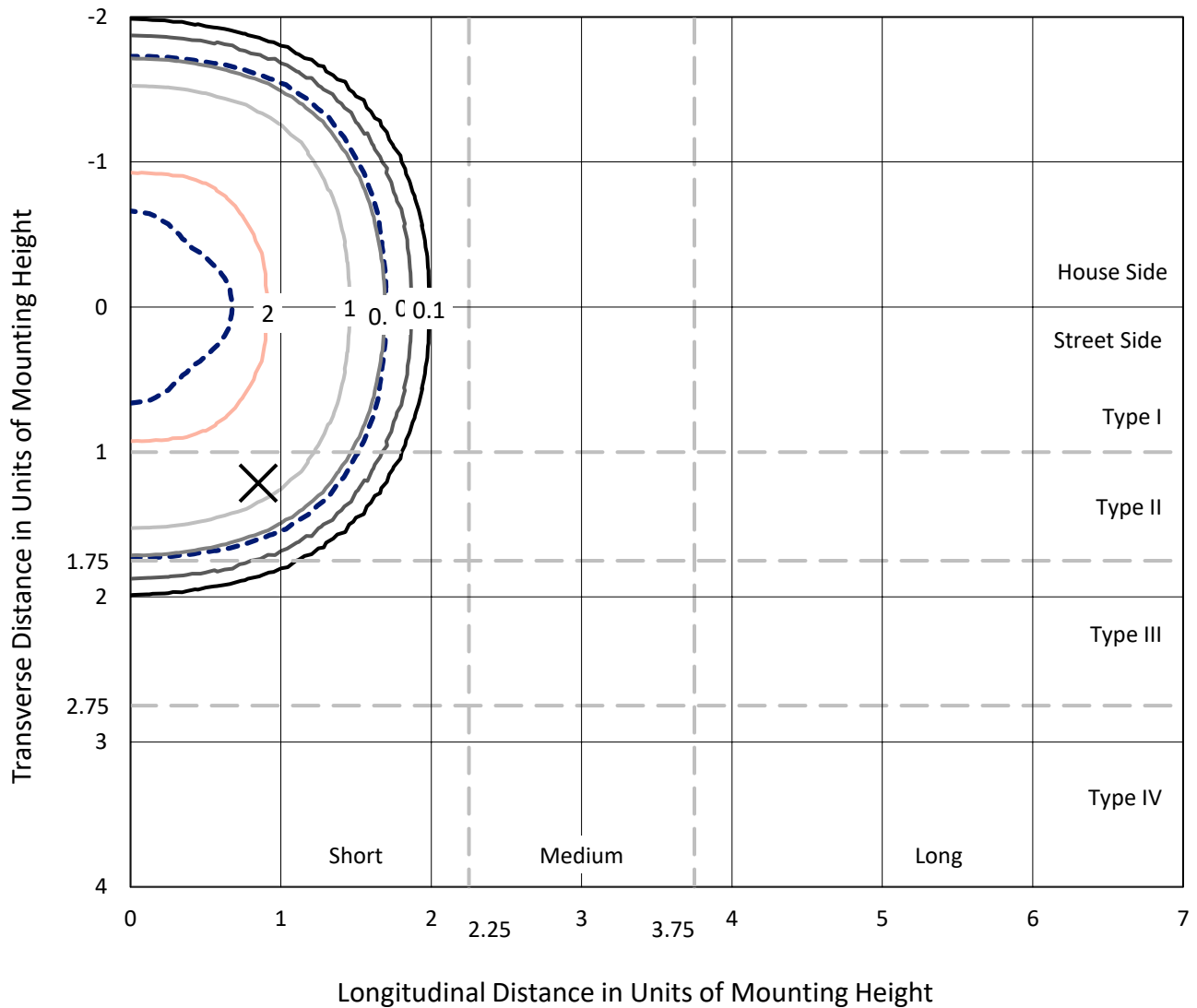
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

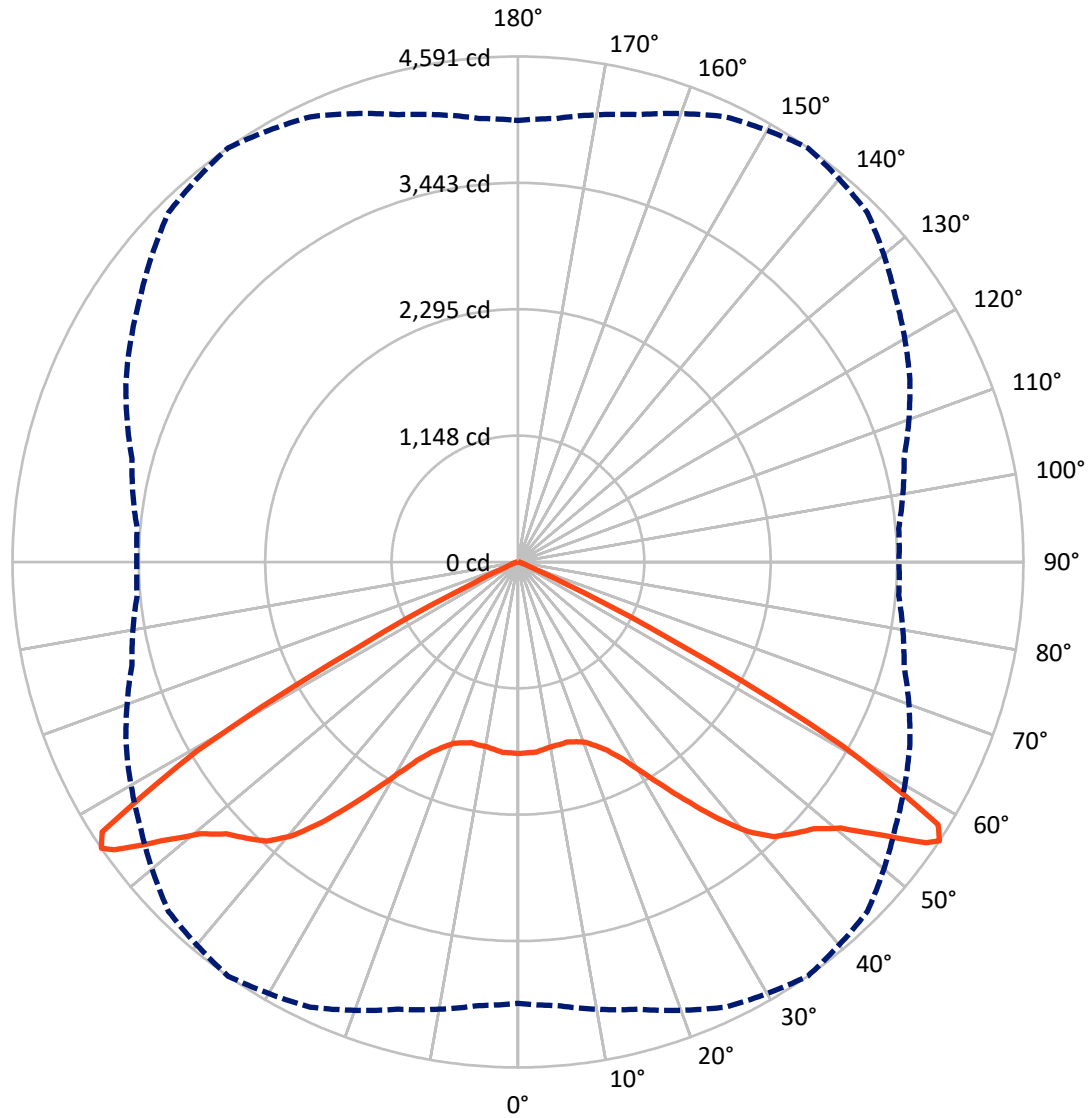
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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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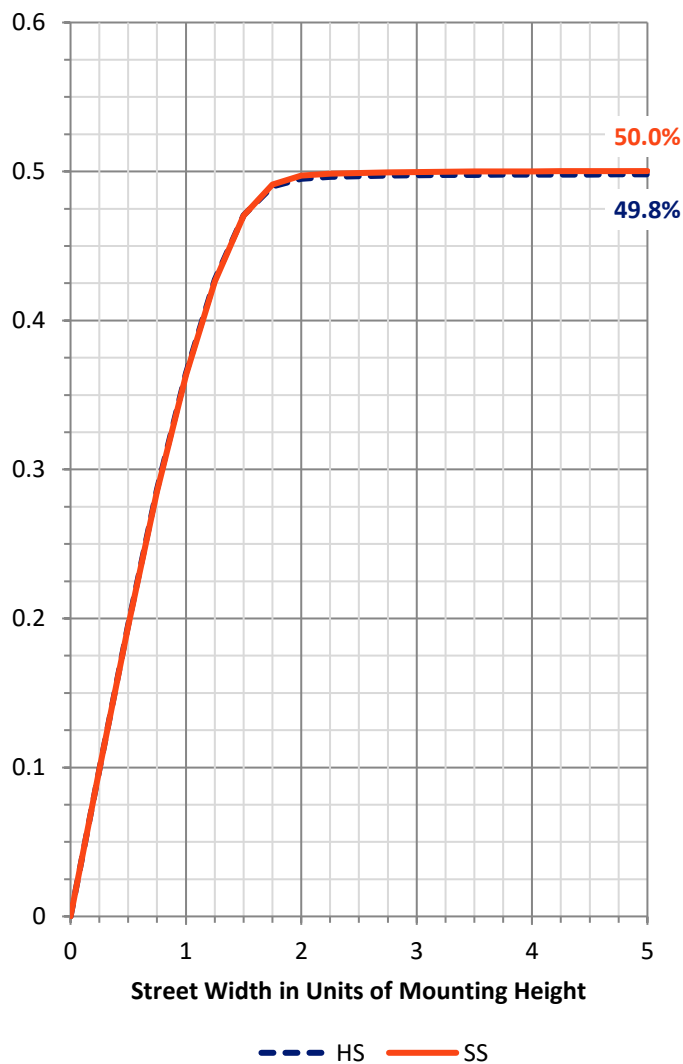
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4965.5	0.0	4965.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4965.5	0.0	4965.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	9931.0	0.0	9931.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	163.5	1.6
10°-20°	477.5	4.8
20°-30°	864.6	8.7
30°-40°	1603.3	16.1
40°-50°	2631.8	26.5
50°-60°	3390.5	34.1
60°-70°	747.2	7.5
70°-80°	43.4	0.4
80°-90°	9.1	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°	9931.0	100.0
0°-180°	9931.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P529235

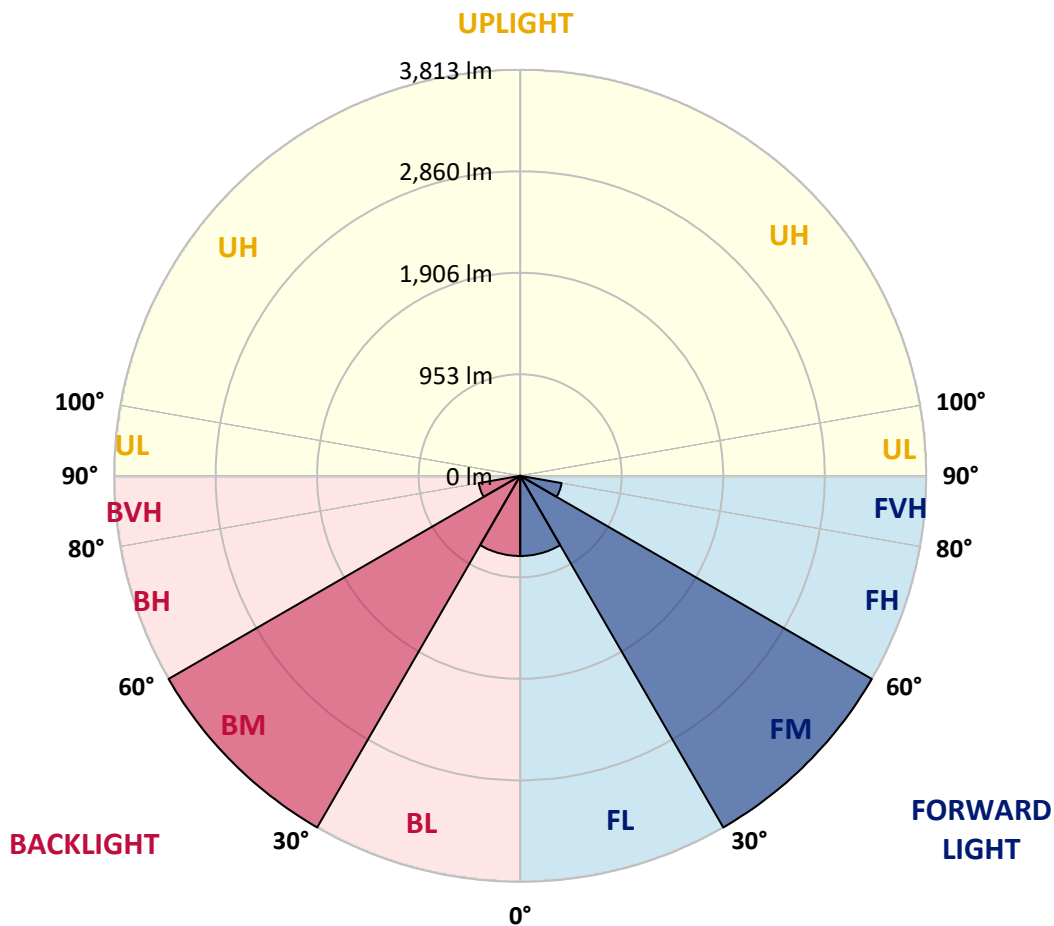
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	752.8	7.6			
FM (30°-60°)	3812.8	38.4			
FH (60°-80°)	395.3	4.0			G0/660
FVH (80°-90°)	4.6	0.0			G0/10
BL (0°-30°)	752.8	7.6	B2/1000		
BM (30°-60°)	3812.8	38.4	B3/5000		
BH (60°-80°)	395.3	4.0	B1/500		G0/660
BVH (80°-90°)	4.6	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°	1740.1	1740.1	1740.1	1740.1	1740.1	1740.1	1740.1	1740.1	1740.1	1740.1	1740.1
2.5°	1743.7	1743.7	1745.5	1747.3	1734.7	1729.3	1731.1	1727.5	1725.7	1731.1	1731.1
5°	1738.3	1738.3	1732.9	1734.7	1734.7	1718.5	1718.5	1722.1	1722.1	1711.3	1707.7
7.5°	1723.9	1720.3	1713.1	1722.1	1716.7	1716.7	1704.1	1695.1	1691.5	1698.7	1691.5
10°	1693.3	1695.1	1702.3	1705.9	1702.3	1713.1	1691.5	1678.9	1666.3	1660.9	1660.9
12.5°	1678.9	1689.7	1678.9	1687.9	1700.5	1691.5	1678.9	1669.9	1651.9	1644.8	1644.8
15°	1677.1	1684.3	1687.9	1700.5	1695.1	1698.7	1673.5	1662.7	1635.8	1623.2	1617.8
17.5°	1675.3	1684.3	1689.7	1713.1	1716.7	1718.5	1698.7	1666.3	1643.0	1630.4	1617.8
20°	1695.1	1698.7	1709.5	1732.9	1747.3	1772.5	1736.5	1702.3	1651.9	1637.6	1632.2
22.5°	1720.3	1738.3	1749.1	1774.3	1812.1	1833.7	1786.9	1743.7	1691.5	1673.5	1651.9
25°	1801.3	1797.7	1815.7	1867.9	1898.5	1914.7	1876.9	1813.9	1745.5	1723.9	1727.5
27.5°	1902.1	1905.7	1921.9	1979.5	2024.4	2049.6	2004.7	1921.9	1855.3	1819.3	1815.7
30°	2033.4	2029.8	2047.8	2125.2	2206.2	2244.0	2164.8	2067.6	2002.9	1956.1	1966.9
32.5°	2172.0	2173.8	2224.2	2294.4	2425.7	2499.5	2371.8	2253.0	2155.8	2123.4	2107.2
35°	2377.2	2386.1	2425.7	2533.7	2679.5	2774.8	2634.5	2492.3	2380.7	2321.4	2328.6
37.5°	2630.9	2621.9	2688.5	2805.4	2958.4	3028.6	2909.8	2747.8	2634.5	2594.9	2620.1
40°	2900.8	2909.8	2944.0	3050.2	3221.1	3267.9	3091.6	3003.4	2904.4	2884.6	2915.2
42.5°	3170.7	3165.3	3190.5	3285.9	3410.1	3377.7	3273.3	3221.1	3150.9	3111.4	3152.7
45°	3368.7	3359.7	3406.5	3471.3	3516.2	3455.1	3408.3	3390.3	3354.3	3311.1	3348.9
47.5°	3561.2	3554.0	3599.0	3617.0	3620.6	3539.6	3548.6	3581.0	3491.0	3401.1	3444.3
50°	3725.0	3712.4	3768.2	3807.8	3798.8	3669.2	3701.6	3669.2	3528.8	3422.7	3406.5
52.5°	3998.5	4003.9	4063.3	4135.3	4113.7	4005.7	3958.9	3811.4	3631.4	3536.0	3480.2
55°	4171.3	4144.3	4246.8	4475.4	4500.6	4389.0	4182.1	3964.3	3694.4	3577.4	3563.0
56°	4009.3	4043.5	4205.5	4461.0	4590.5	4488.0	4187.5	3926.5	3629.6	3471.3	3460.5
57.5°	3597.2	3579.2	3798.8	4147.9	4500.6	4457.4	4039.9	3656.6	3311.1	3132.9	3111.4
60°	2238.6	2290.8	2483.3	2915.2	3386.7	3408.3	2994.4	2665.1	2262.0	2103.6	2141.4
62.5°	876.4	831.4	951.9	1274.1	1598.0	1669.9	1513.4	1257.9	1032.9	876.4	865.6
65°	203.3	197.9	223.1	307.7	430.1	498.5	473.3	340.1	250.1	237.5	219.5
67.5°	115.2	115.2	109.8	109.8	120.6	127.8	122.4	120.6	126.0	131.4	129.6
70°	81.0	79.2	75.6	77.4	73.8	73.8	79.2	88.2	95.4	95.4	97.2
72.5°	48.6	48.6	48.6	54.0	54.0	54.0	59.4	66.6	68.4	66.6	64.8
75°	21.6	21.6	25.2	30.6	34.2	36.0	41.4	45.0	48.6	45.0	41.4
77.5°	5.4	5.4	9.0	12.6	16.2	19.8	27.0	32.4	34.2	32.4	27.0
80°	1.8	1.8	3.6	9.0	16.2	19.8	27.0	28.8	30.6	27.0	21.6
82.5°	1.8	1.8	3.6	9.0	12.6	16.2	21.6	25.2	27.0	23.4	21.6
85°	0.0	1.8	3.6	7.2	10.8	14.4	14.4	10.8	9.0	5.4	7.2
87.5°	0.0	0.0	1.8	1.8	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)