

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: P528845

Luminaire Tested: **GALN-SA4A-727-U-5MQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528845  
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-SA4A-727-U-5MQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2700K, 615mA 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: 9080 lumens  
Efficiency: N/A  
Efficacy: 75.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G0

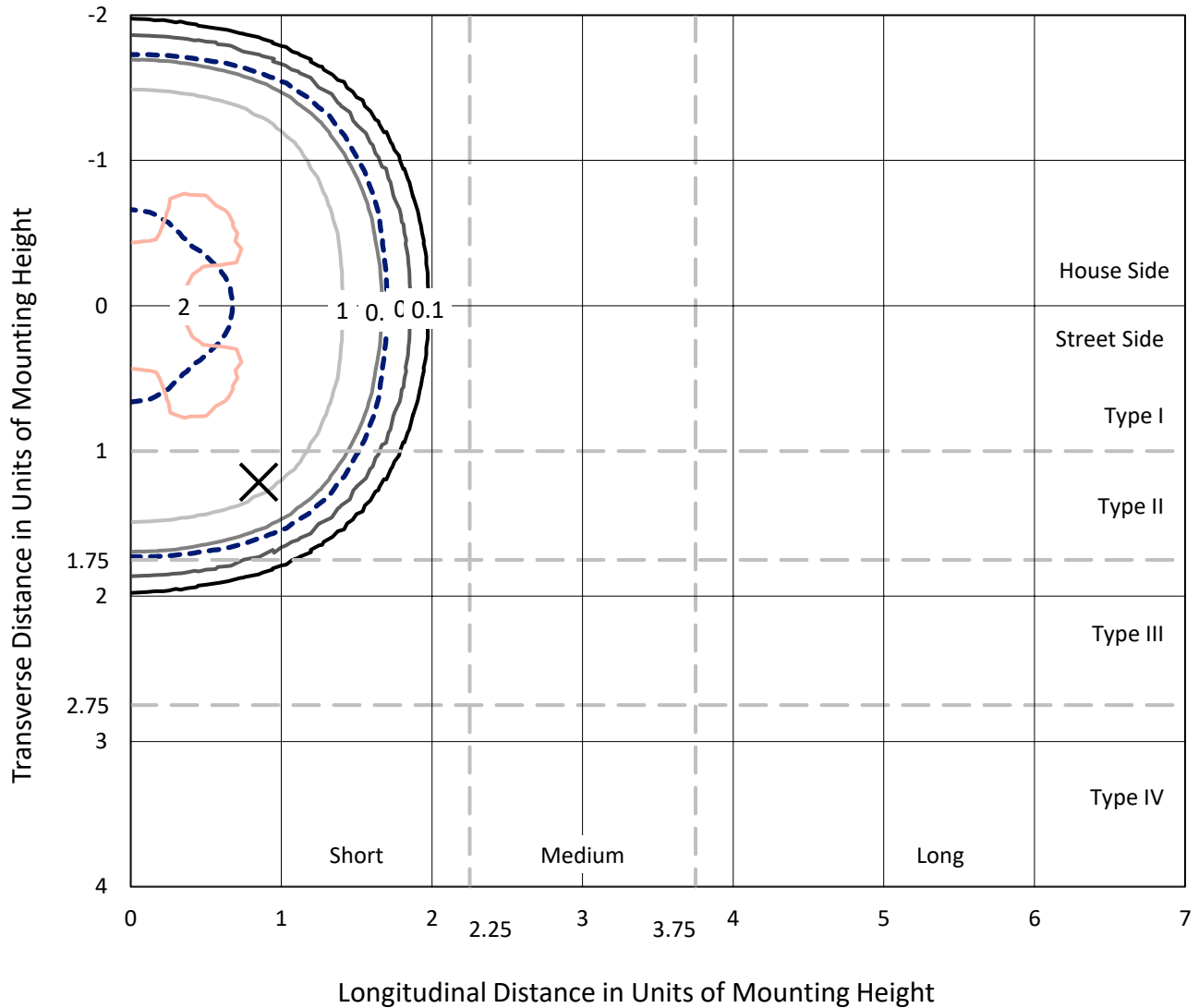
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

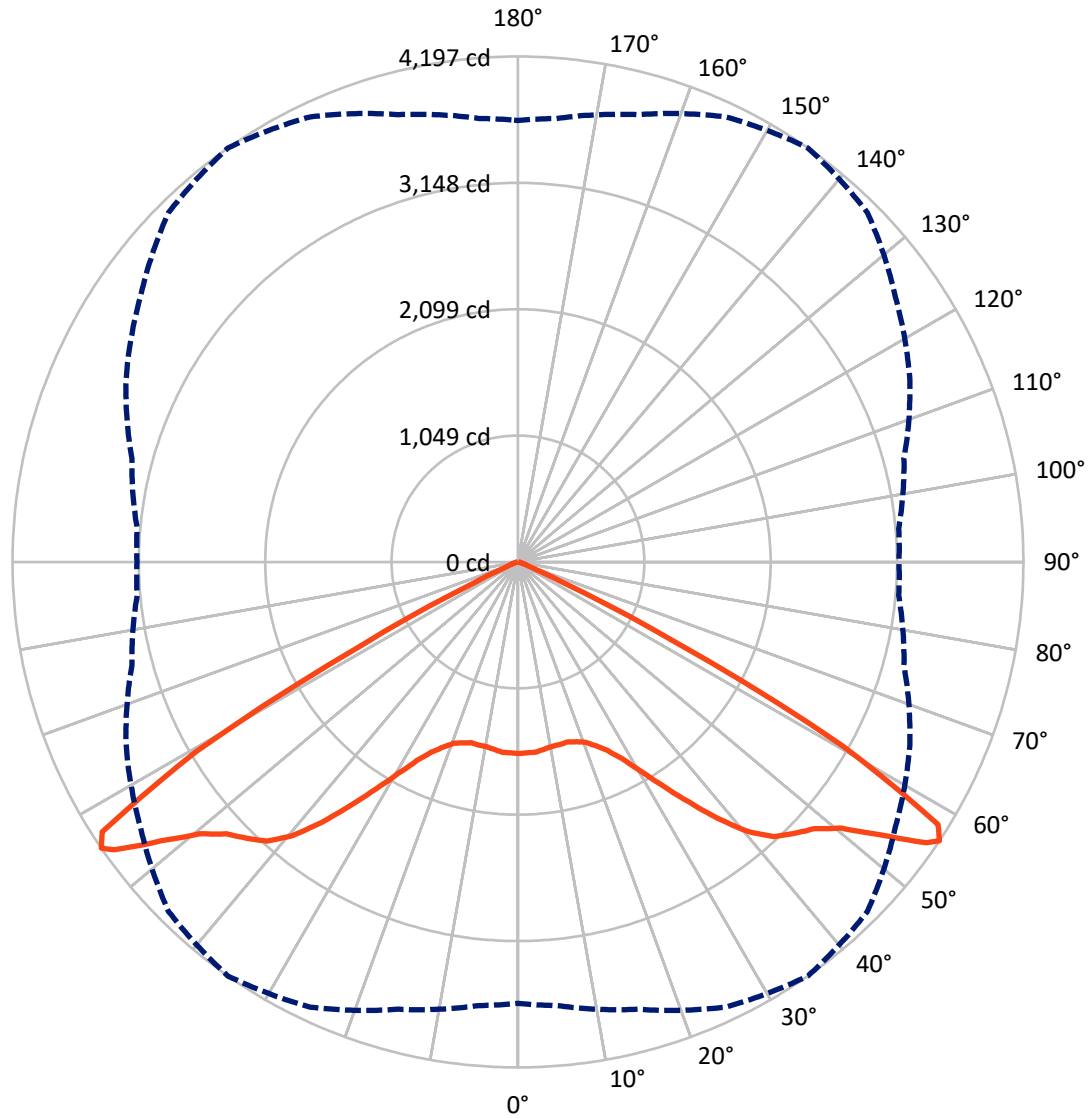
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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	4540.0	0.0	4540.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4540.0	0.0	4540.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	9080.0	0.0	9080.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	149.5	1.6
10°-20°	436.6	4.8
20°-30°	790.5	8.7
30°-40°	1466.0	16.1
40°-50°	2406.3	26.5
50°-60°	3100.0	34.1
60°-70°	683.2	7.5
70°-80°	39.6	0.4
80°-90°	8.3	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°	9080.0	100.0
0°-180°	9080.0	100.0

**Coefficient of Utilization**

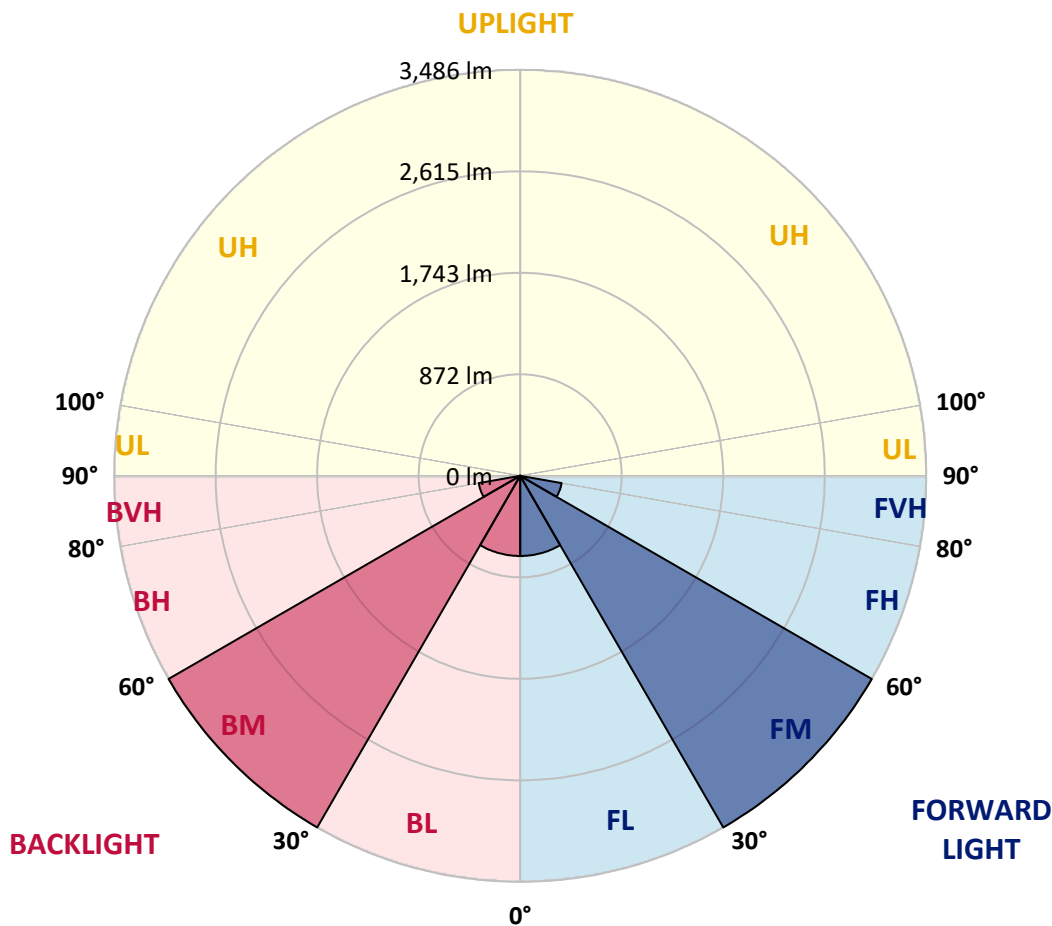


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	688.3	7.6			
FM (30°-60°)	3486.1	38.4			
FH (60°-80°)	361.4	4.0			G0/660
FVH (80°-90°)	4.2	0.0			G0/10
BL (0°-30°)	688.3	7.6	B2/1000		
BM (30°-60°)	3486.1	38.4	B3/5000		
BH (60°-80°)	361.4	4.0	B1/500		G0/660
BVH (80°-90°)	4.2	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°	1591.0	1591.0	1591.0	1591.0	1591.0	1591.0	1591.0	1591.0	1591.0	1591.0	1591.0
2.5°	1594.3	1594.3	1595.9	1597.6	1586.1	1581.1	1582.8	1579.5	1577.8	1582.8	1582.8
5°	1589.4	1589.4	1584.4	1586.1	1586.1	1571.3	1571.3	1574.6	1574.6	1564.7	1561.4
7.5°	1576.2	1572.9	1566.3	1574.6	1569.6	1569.6	1558.1	1549.9	1546.6	1553.2	1546.6
10°	1548.2	1549.9	1556.5	1559.8	1556.5	1566.3	1546.6	1535.1	1523.6	1518.6	1518.6
12.5°	1535.1	1544.9	1535.1	1543.3	1554.8	1546.6	1535.1	1526.8	1510.4	1503.8	1503.8
15°	1533.4	1540.0	1543.3	1554.8	1549.9	1553.2	1530.1	1520.3	1495.6	1484.1	1479.1
17.5°	1531.8	1540.0	1544.9	1566.3	1569.6	1571.3	1553.2	1523.6	1502.2	1490.6	1479.1
20°	1549.9	1553.2	1563.0	1584.4	1597.6	1620.6	1587.7	1556.5	1510.4	1497.2	1492.3
22.5°	1572.9	1589.4	1599.2	1622.3	1656.8	1676.6	1633.8	1594.3	1546.6	1530.1	1510.4
25°	1647.0	1643.7	1660.1	1707.8	1735.8	1750.6	1716.1	1658.5	1595.9	1576.2	1579.5
27.5°	1739.1	1742.4	1757.2	1809.8	1851.0	1874.0	1832.9	1757.2	1696.3	1663.4	1660.1
30°	1859.2	1855.9	1872.4	1943.1	2017.1	2051.7	1979.3	1890.5	1831.2	1788.4	1798.3
32.5°	1985.9	1987.5	2033.6	2097.8	2217.9	2285.3	2168.5	2059.9	1971.1	1941.5	1926.7
35°	2173.4	2181.7	2217.9	2316.6	2449.9	2537.1	2408.7	2278.7	2176.7	2122.4	2129.0
37.5°	2405.4	2397.2	2458.1	2565.0	2704.9	2769.1	2660.5	2512.4	2408.7	2372.5	2395.6
40°	2652.2	2660.5	2691.7	2788.8	2945.1	2987.9	2826.6	2746.0	2655.5	2637.4	2665.4
42.5°	2899.0	2894.1	2917.1	3004.3	3117.9	3088.2	2992.8	2945.1	2880.9	2844.7	2882.6
45°	3080.0	3071.8	3114.6	3173.8	3214.9	3159.0	3116.2	3099.8	3066.9	3027.4	3061.9
47.5°	3256.1	3249.5	3290.6	3307.1	3310.4	3236.3	3244.5	3274.2	3191.9	3109.6	3149.1
50°	3405.8	3394.3	3445.3	3481.5	3473.2	3354.8	3384.4	3354.8	3226.4	3129.4	3114.6
52.5°	3655.9	3660.8	3715.1	3780.9	3761.2	3662.5	3619.7	3484.8	3320.2	3233.0	3182.0
55°	3813.8	3789.1	3882.9	4091.9	4114.9	4012.9	3823.7	3624.6	3377.8	3270.9	3257.7
56°	3665.7	3697.0	3845.1	4078.7	4197.2	4103.4	3828.6	3590.1	3318.6	3173.8	3163.9
57.5°	3289.0	3272.5	3473.2	3792.4	4114.9	4075.4	3693.7	3343.3	3027.4	2864.5	2844.7
60°	2046.8	2094.5	2270.5	2665.4	3096.5	3116.2	2737.8	2436.7	2068.2	1923.4	1957.9
62.5°	801.3	760.1	870.4	1164.9	1461.0	1526.8	1383.7	1150.1	944.4	801.3	791.4
65°	185.9	181.0	204.0	281.3	393.2	455.7	432.7	311.0	228.7	217.2	200.7
67.5°	105.3	105.3	100.4	100.4	110.2	116.8	111.9	110.2	115.2	120.1	118.5
70°	74.0	72.4	69.1	70.7	67.5	67.5	72.4	80.6	87.2	87.2	88.8
72.5°	44.4	44.4	44.4	49.4	49.4	49.4	54.3	60.9	62.5	60.9	59.2
75°	19.7	19.7	23.0	28.0	31.3	32.9	37.8	41.1	44.4	41.1	37.8
77.5°	4.9	4.9	8.2	11.5	14.8	18.1	24.7	29.6	31.3	29.6	24.7
80°	1.6	1.6	3.3	8.2	14.8	18.1	24.7	26.3	28.0	24.7	19.7
82.5°	1.6	1.6	3.3	8.2	11.5	14.8	19.7	23.0	24.7	21.4	19.7
85°	0.0	1.6	3.3	6.6	9.9	13.2	13.2	9.9	8.2	4.9	6.6
87.5°	0.0	0.0	1.6	1.6	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)