

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: P452979

Luminaire Tested: **GALN-SA4A-727-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452979  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA4A-727-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15610 lumens  
Efficiency: N/A  
Efficacy: 129.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G4

Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

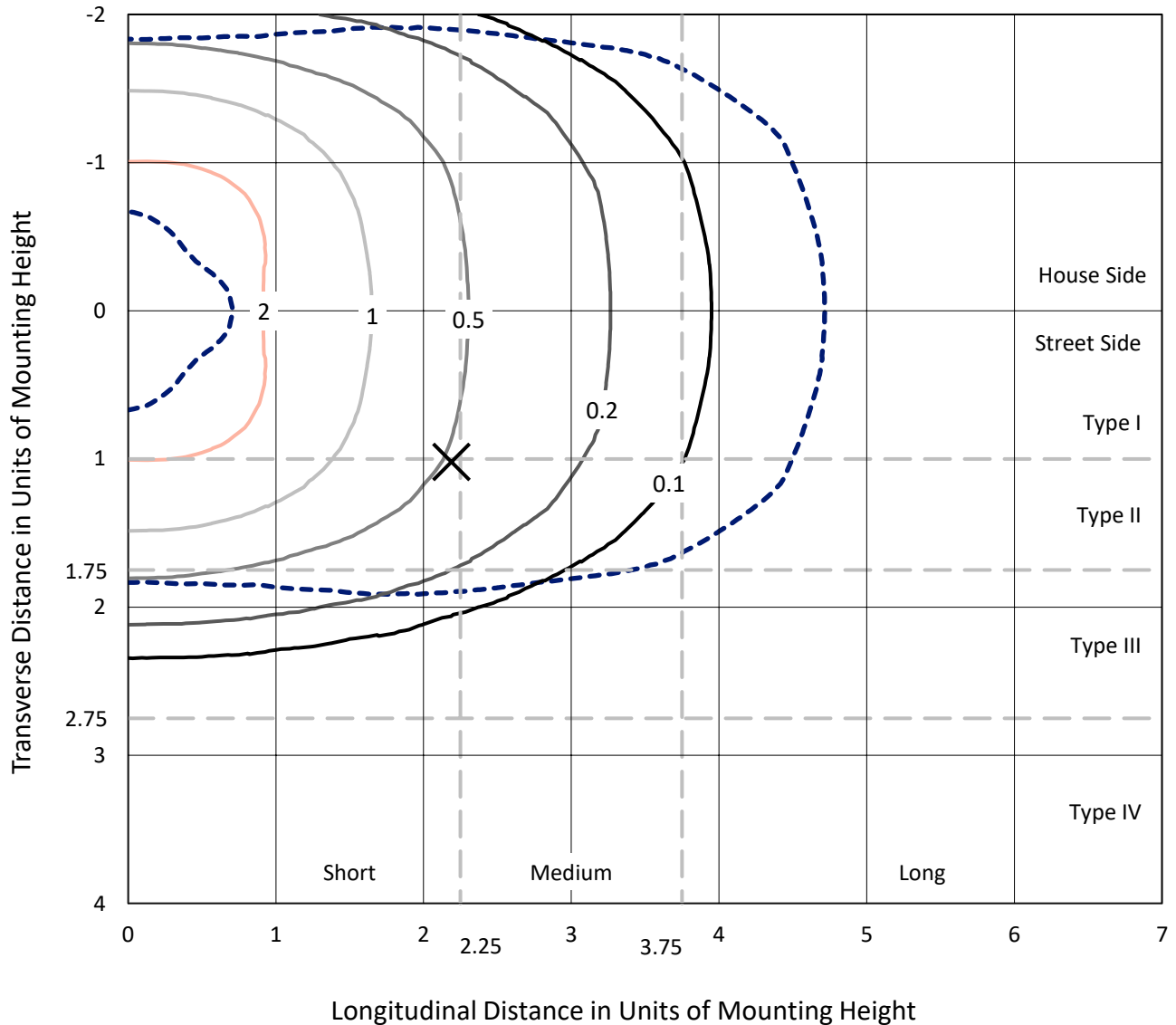




REPORT NUMBER: P452979  
 CATALOG NUMBER: GALN-SA4A-727-U-RW

### Iso-Footcandle Lines of Horizontal Illumination

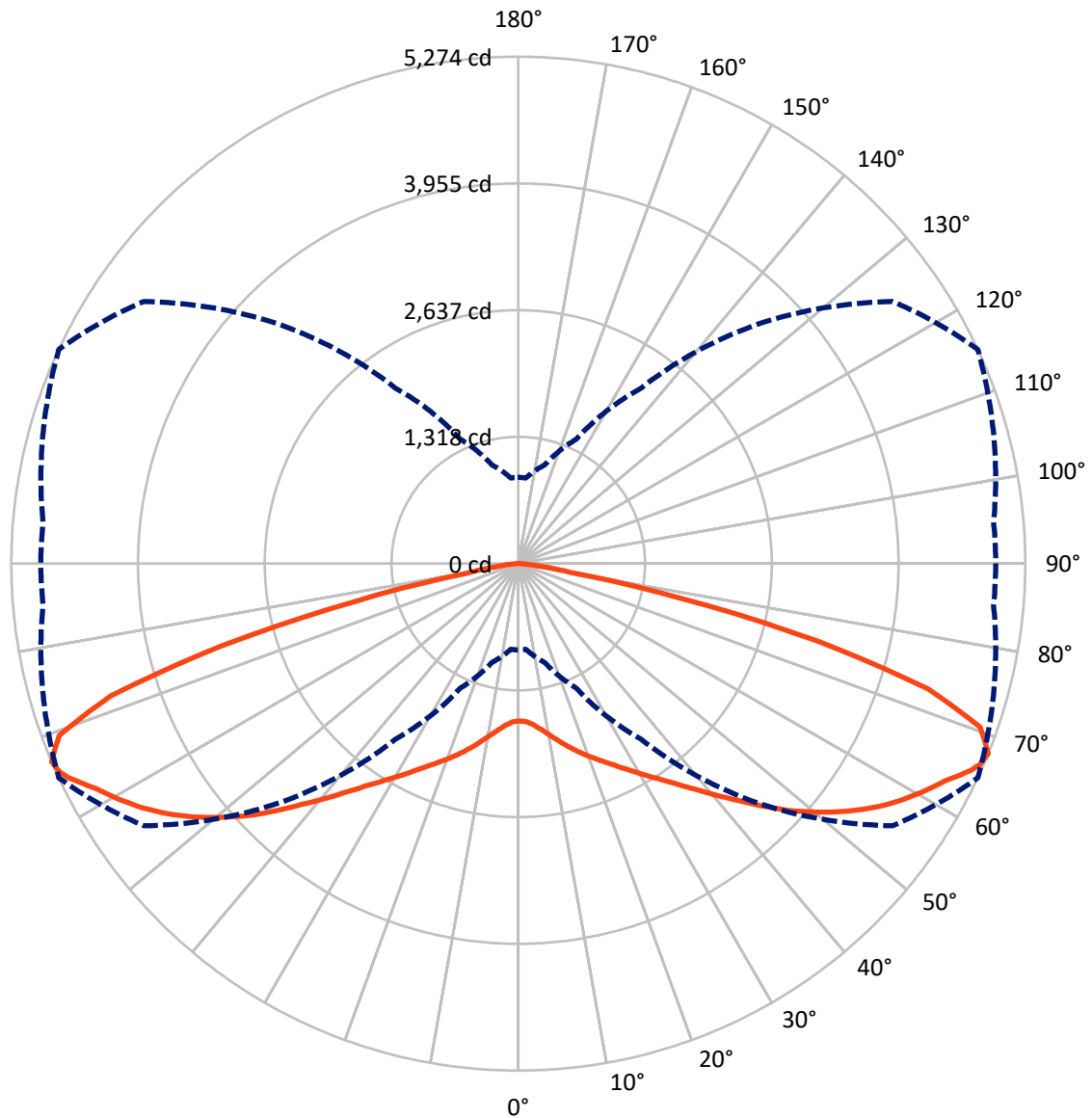
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc  
 Type III - Short - N/A

REPORT NUMBER: P452979  
CATALOG NUMBER: GALN-SA4A-727-U-RW

### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P452979

CATALOG NUMBER: GALN-SA4A-727-U-RW

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7805.0	0.0	7805.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7805.0	0.0	7805.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	15610.0	0.0	15610.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.3	1.0
10°-20°	539.7	3.5
20°-30°	1055.7	6.8
30°-40°	1795.6	11.5
40°-50°	2841.9	18.2
50°-60°	3768.3	24.1
60°-70°	3554.7	22.8
70°-80°	1757.3	11.3
80°-90°	135.4	0.9
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°	15610.0	100.0
0°-180°	15610.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P452979

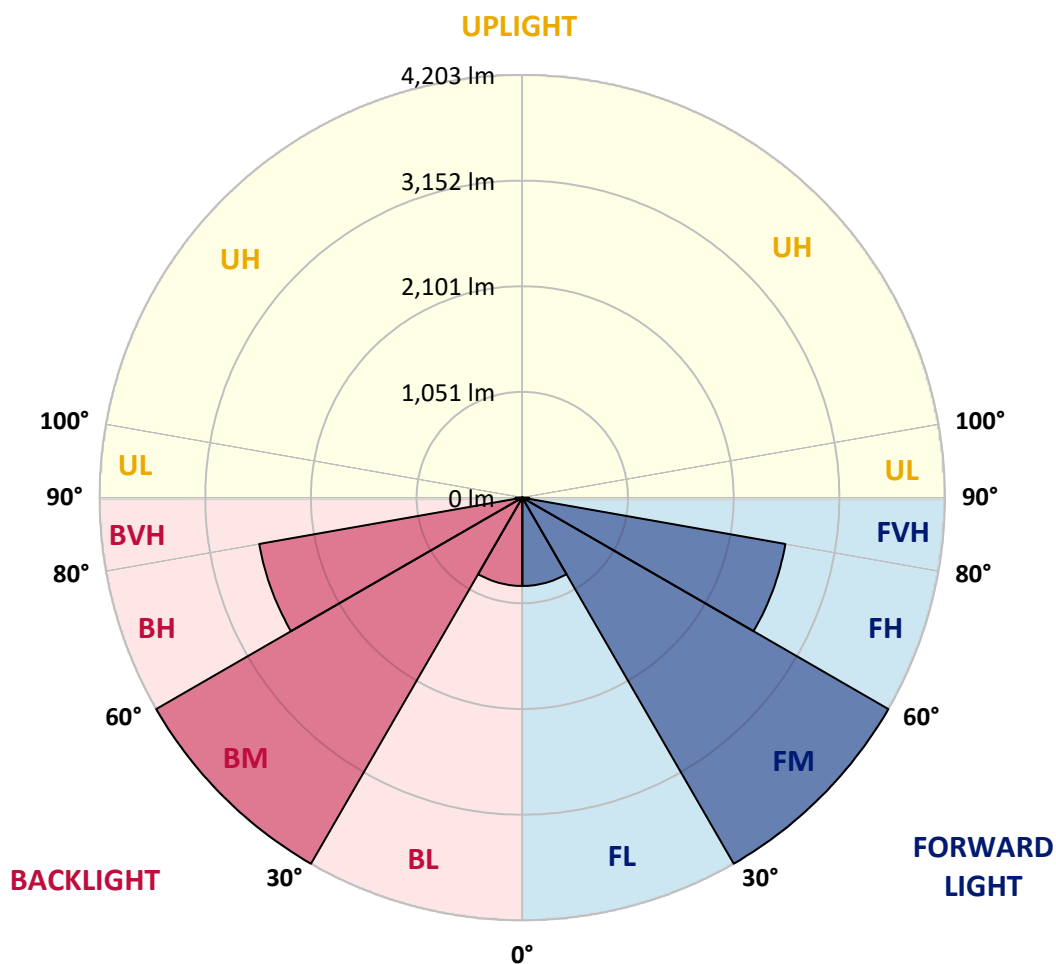
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	878.3	5.6			
FM	(30°-60°)	4203.0	26.9			
FH	(60°-80°)	2656.0	17.0			G2/5000
FVH	(80°-90°)	67.7	0.4			G1/100
BL	(0°-30°)	878.3	5.6	B2/1000		
BM	(30°-60°)	4203.0	26.9	B3/5000		
BH	(60°-80°)	2656.0	17.0	B4/5000		G4/5000
BVH	(80°-90°)	67.7	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type III Short





REPORT NUMBER: P452979

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1635.0	1635.0	1635.0	1635.0	1635.0	1635.0	1635.0	1635.0	1635.0	1635.0	1635.0
2.5°	1626.6	1628.3	1630.0	1632.5	1635.8	1640.9	1644.2	1646.7	1653.4	1654.2	1653.4
5°	1620.8	1622.5	1626.6	1634.2	1645.0	1660.1	1671.8	1686.0	1696.9	1704.4	1702.8
7.5°	1620.0	1623.3	1630.0	1645.9	1666.8	1692.7	1719.5	1743.7	1764.6	1781.4	1778.9
10°	1633.3	1637.5	1648.4	1671.8	1704.4	1742.1	1779.7	1815.7	1845.8	1867.5	1875.0
12.5°	1655.9	1659.3	1679.3	1714.5	1761.3	1808.1	1850.8	1895.1	1936.9	1973.7	1973.7
15°	1695.2	1701.1	1726.2	1777.2	1834.9	1889.3	1932.7	1979.6	2024.7	2066.6	2079.1
17.5°	1749.6	1757.9	1795.6	1860.8	1934.4	1984.6	2025.6	2064.0	2103.4	2143.5	2149.3
20°	1824.0	1832.4	1882.6	1961.2	2048.2	2108.4	2136.0	2145.2	2164.4	2202.9	2207.9
22.5°	1925.2	1933.6	1989.6	2078.3	2175.3	2240.5	2252.2	2230.5	2225.5	2255.6	2258.9
25°	2039.8	2047.3	2111.7	2207.1	2307.4	2378.5	2375.2	2321.6	2291.5	2309.9	2314.9
27.5°	2168.6	2179.5	2244.7	2343.4	2452.1	2514.8	2504.8	2427.0	2362.6	2359.3	2360.9
30°	2333.3	2345.0	2406.9	2501.4	2608.5	2666.2	2645.3	2540.7	2441.2	2407.8	2407.8
32.5°	2507.3	2536.6	2599.3	2698.0	2781.6	2823.4	2791.6	2666.2	2534.1	2487.2	2484.7
35°	2733.9	2749.8	2811.7	2907.9	2970.6	3003.2	2942.2	2807.5	2655.3	2600.1	2592.6
37.5°	2955.6	2968.9	3040.9	3132.9	3209.0	3207.3	3124.5	2975.6	2805.9	2744.0	2739.0
40°	3182.2	3196.4	3278.4	3362.9	3439.0	3432.3	3331.9	3165.5	2984.8	2915.4	2928.8
42.5°	3378.7	3394.6	3487.5	3607.9	3676.5	3674.8	3558.6	3371.2	3183.0	3121.2	3132.9
45°	3557.7	3571.9	3679.8	3817.8	3918.2	3930.7	3803.6	3605.4	3412.2	3332.7	3336.1
47.5°	3684.0	3710.8	3823.7	3981.7	4118.1	4162.4	4037.8	3843.7	3621.3	3538.5	3543.5
50°	3780.2	3796.9	3919.8	4099.7	4271.9	4363.9	4263.6	4064.5	3830.4	3742.5	3754.3
52.5°	3791.9	3812.0	3945.8	4153.2	4374.0	4513.6	4464.3	4280.3	4043.6	3953.3	3978.4
55°	3696.5	3708.3	3868.0	4119.7	4414.1	4624.9	4637.4	4481.0	4246.8	4178.3	4195.0
57.5°	3424.7	3454.8	3657.2	3963.3	4358.9	4684.2	4767.0	4663.3	4452.6	4384.8	4411.6
60°	2979.0	3009.1	3212.3	3600.4	4150.7	4656.6	4874.1	4824.7	4639.1	4584.7	4598.9
62.5°	2334.2	2331.7	2583.4	3059.3	3736.7	4521.2	4953.5	4980.3	4823.1	4754.5	4776.2
65°	1512.9	1520.4	1763.8	2276.5	3112.0	4176.6	4971.1	5178.5	5003.7	4900.0	4915.9
66°	1216.8	1239.4	1446.0	1918.5	2793.3	3950.8	4918.4	5237.0	5058.9	4933.5	4941.0
67.5°	898.2	894.0	1063.8	1428.4	2230.5	3521.8	4753.7	5273.8	5121.6	4963.6	4966.9
70°	512.7	511.8	572.0	784.5	1311.4	2479.7	4006.8	5097.4	5248.8	5072.3	5063.1
72.5°	374.7	372.2	380.5	433.2	639.8	1252.0	2764.0	4455.1	5183.5	5054.7	5028.8
75°	314.5	312.8	311.1	317.8	358.8	567.0	1466.9	3204.8	4497.7	4744.5	4717.7
77.5°	256.8	256.8	257.6	255.9	257.6	298.6	608.0	1717.8	2739.0	3057.6	3132.0
80°	200.7	199.9	214.1	208.2	194.9	191.5	269.3	552.8	909.1	904.1	746.0
82.5°	148.0	138.0	163.1	158.9	143.8	122.1	157.2	235.8	303.6	197.4	146.4
85°	93.7	92.8	115.4	105.4	87.8	57.7	75.3	101.2	125.4	76.1	61.9
87.5°	16.7	15.9	36.8	26.8	26.8	16.7	20.9	27.6	41.0	28.4	20.9
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)