

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: P458746

Luminaire Tested: **GALN-SA3A-735-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458746  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3A-735-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13272 lumens  
Efficiency: N/A  
Efficacy: 142.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2

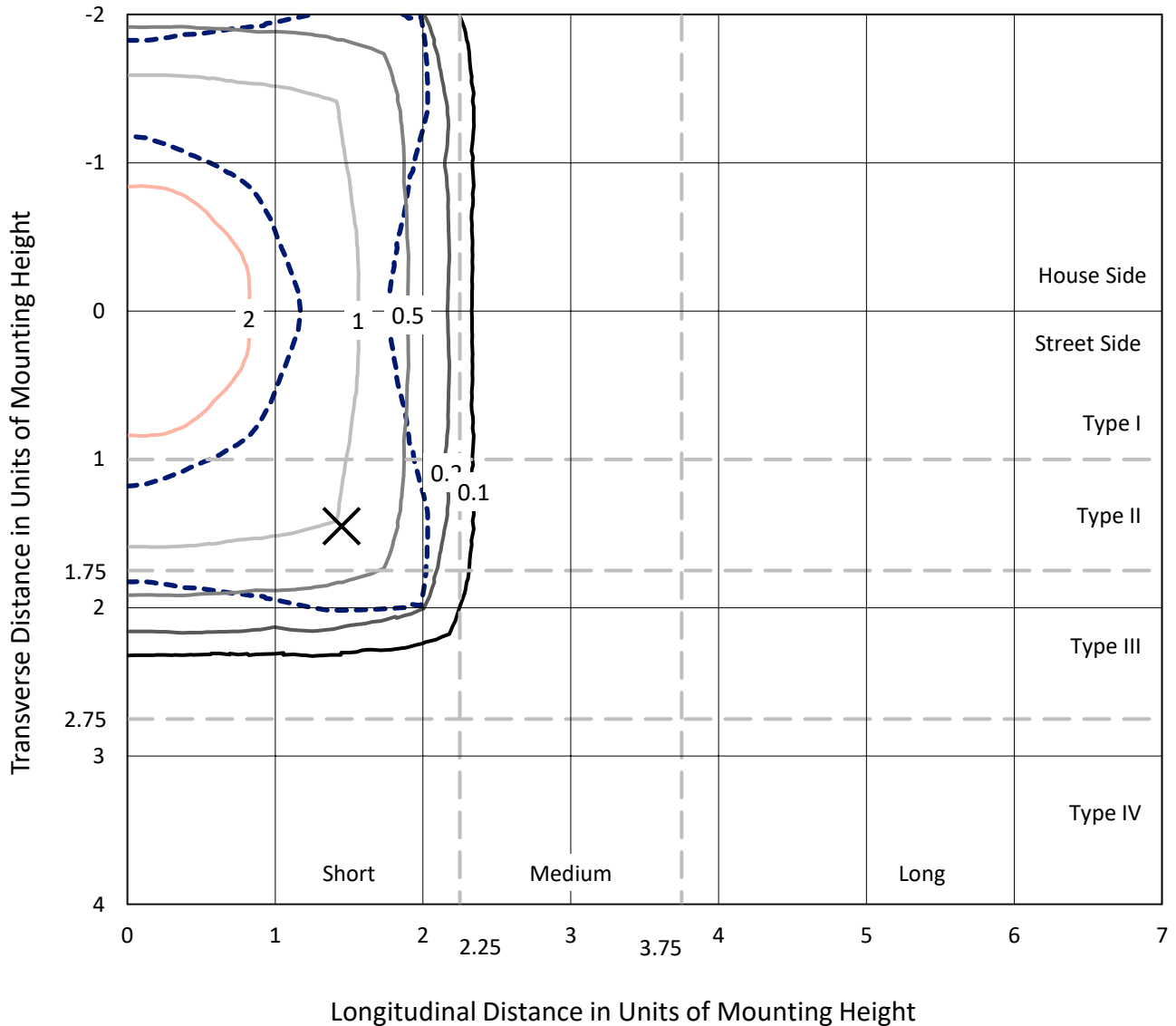
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

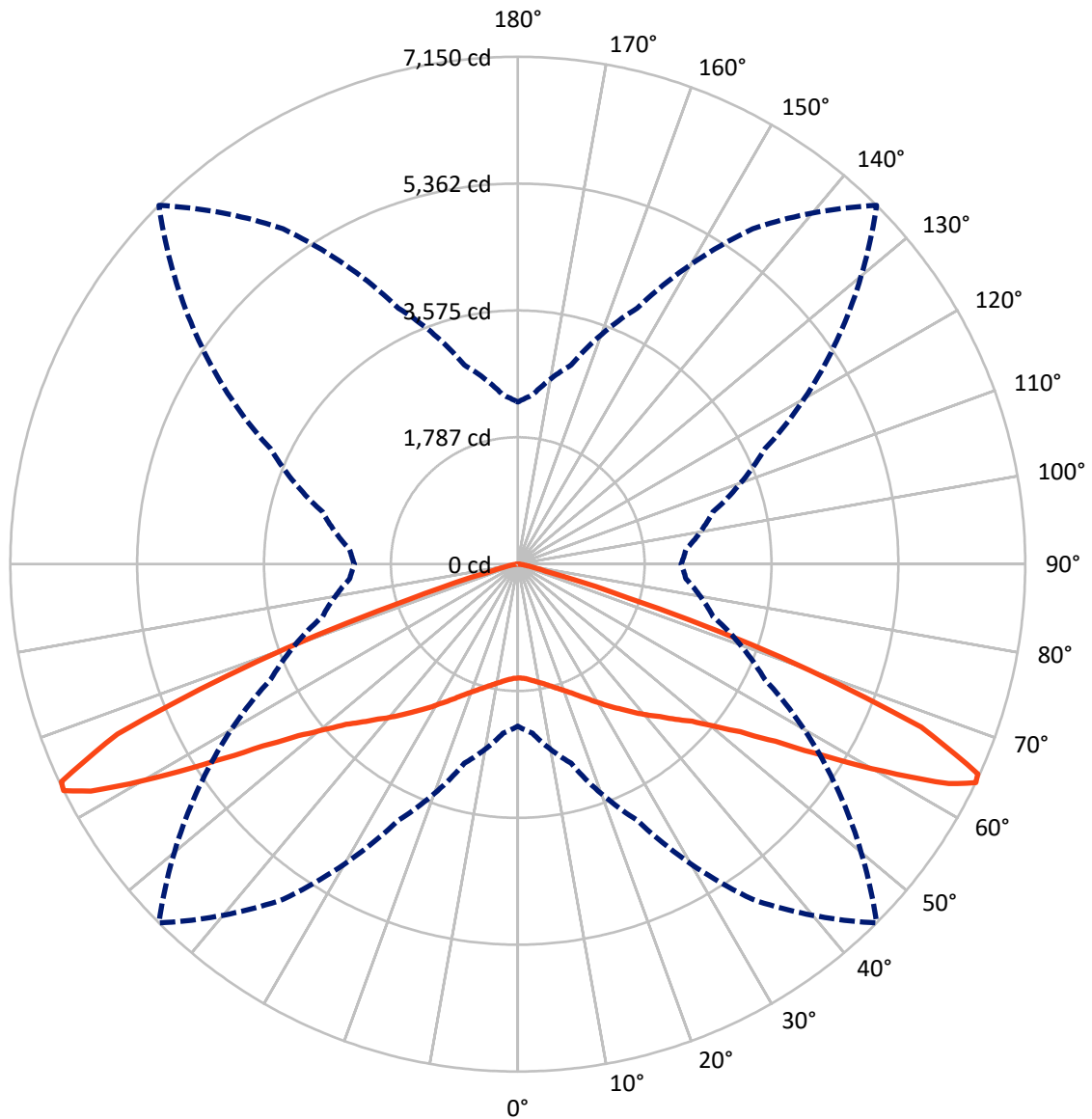
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 64-Deg Vertical

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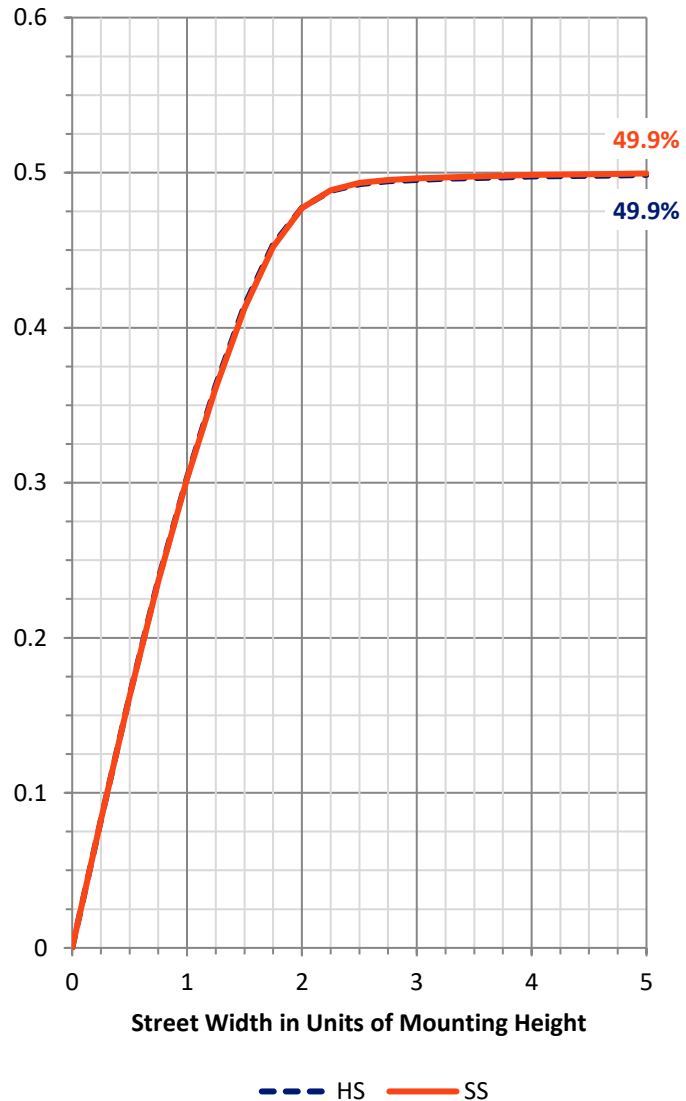
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6636.0	0.0	6636.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6636.0	0.0	6636.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	13272.0	0.0	13272.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	157.6	1.2
10°-20°	508.3	3.8
20°-30°	960.6	7.2
30°-40°	1590.9	12.0
40°-50°	2483.7	18.7
50°-60°	3839.7	28.9
60°-70°	3310.9	24.9
70°-80°	375.2	2.8
80°-90°	44.9	0.3
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°	13272.0	100.0
0°-180°	13272.0	100.0

**Coefficient of Utilization**



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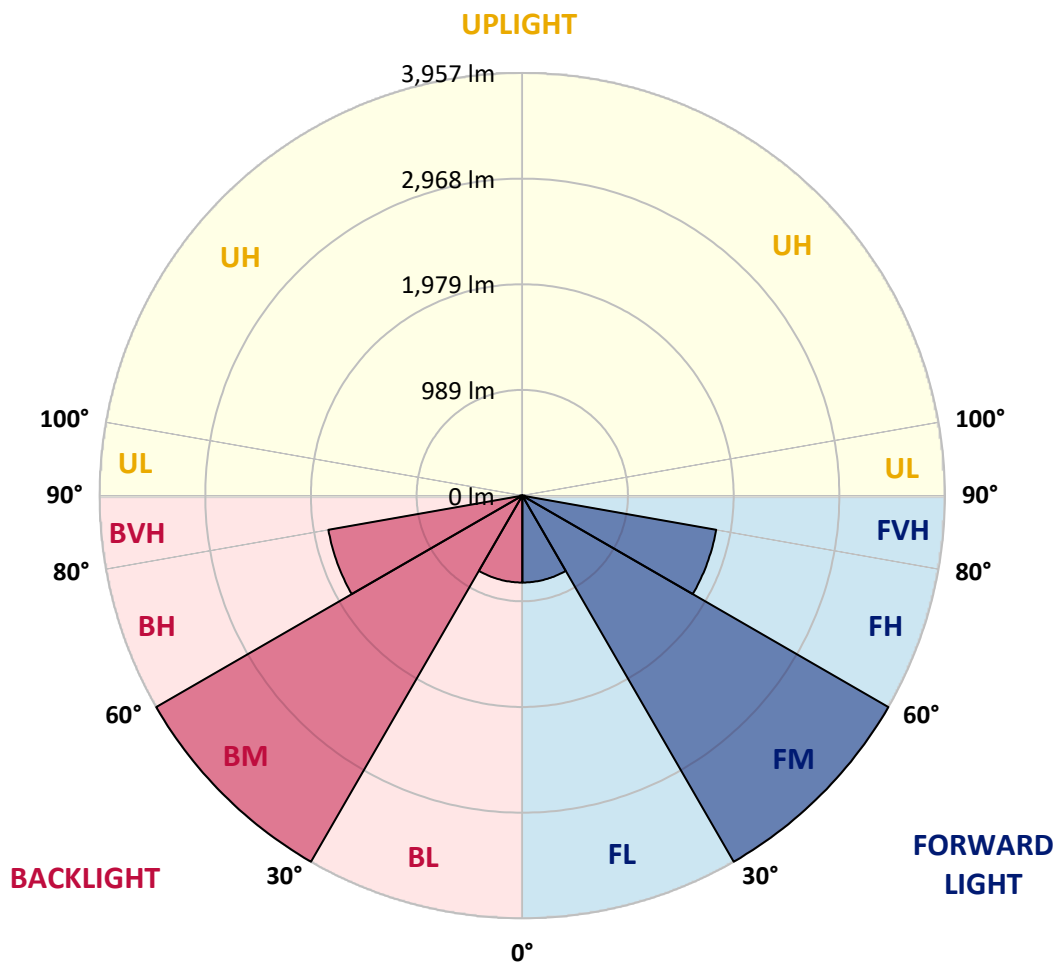
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	813.3	6.1			
FM	(30°-60°)	3957.2	29.8			
FH	(60°-80°)	1843.1	13.9			G2/5000
FVH	(80°-90°)	22.5	0.2			G1/100
BL	(0°-30°)	813.3	6.1	B2/1000		
BM	(30°-60°)	3957.2	29.8	B3/5000		
BH	(60°-80°)	1843.1	13.9	B3/2500		G2/5000
BVH	(80°-90°)	22.5	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1604.1	1604.1	1604.1	1604.1	1604.1	1604.1	1604.1	1604.1	1604.1	1604.1	1604.1
2.5°	1610.5	1614.0	1611.2	1610.5	1609.8	1609.8	1609.8	1610.5	1613.3	1615.4	1614.0
5°	1630.9	1633.7	1632.3	1631.6	1630.9	1631.6	1630.2	1629.5	1631.6	1631.6	1630.9
7.5°	1656.2	1659.7	1658.3	1659.7	1660.4	1661.1	1657.6	1654.8	1654.1	1656.2	1654.8
10°	1690.6	1693.4	1694.1	1694.8	1696.2	1695.5	1691.3	1686.4	1685.7	1685.0	1684.3
12.5°	1729.3	1731.4	1732.1	1734.9	1737.0	1737.7	1732.8	1728.6	1721.5	1722.9	1720.1
15°	1772.9	1777.1	1776.4	1780.6	1786.2	1787.6	1782.7	1775.7	1769.3	1765.8	1763.7
17.5°	1826.3	1829.1	1827.7	1831.9	1838.9	1842.4	1838.2	1829.1	1822.8	1815.0	1810.8
20°	1889.5	1894.5	1895.9	1895.9	1902.2	1905.7	1899.4	1896.6	1886.7	1881.1	1877.6
22.5°	1961.2	1963.4	1967.6	1971.8	1978.1	1976.7	1974.6	1970.4	1961.2	1956.3	1950.7
25°	2042.1	2044.2	2054.7	2063.9	2066.0	2064.6	2061.8	2059.7	2051.2	2040.0	2035.8
27.5°	2136.3	2140.5	2154.6	2163.0	2163.0	2163.7	2158.1	2165.1	2146.8	2133.5	2132.1
30°	2254.4	2257.2	2269.1	2277.6	2273.4	2269.8	2268.4	2275.5	2255.8	2231.9	2226.3
32.5°	2371.1	2380.9	2391.5	2409.7	2395.0	2388.6	2387.2	2392.2	2369.7	2343.0	2335.2
35°	2496.2	2503.2	2522.9	2538.4	2525.0	2510.3	2516.6	2532.0	2505.3	2469.5	2468.1
37.5°	2634.7	2641.0	2666.3	2682.5	2672.6	2647.3	2657.9	2676.2	2649.4	2605.2	2596.0
40°	2778.8	2792.1	2823.8	2840.6	2824.5	2790.7	2810.4	2830.1	2806.2	2754.9	2734.5
42.5°	2940.5	2961.6	3007.2	3015.7	2984.7	2939.1	2973.5	3005.1	2988.3	2929.2	2921.5
45°	3129.6	3142.2	3198.4	3216.7	3173.8	3116.9	3159.8	3217.4	3204.8	3136.6	3121.8
47.5°	3341.1	3353.1	3411.4	3438.9	3384.7	3308.1	3385.4	3460.6	3452.9	3379.8	3372.8
50°	3591.4	3594.2	3675.1	3706.0	3651.9	3585.8	3654.7	3748.2	3717.2	3623.7	3622.3
52.5°	3865.6	3869.1	3971.0	4030.7	4000.5	3926.0	4007.5	4064.5	3985.8	3863.4	3854.3
55°	4103.2	4120.7	4259.9	4418.8	4460.3	4406.1	4430.7	4404.0	4210.0	4038.5	4011.8
57.5°	4200.2	4234.6	4446.2	4742.8	5012.8	5092.9	4903.1	4648.6	4299.3	4056.8	4030.7
60°	3963.3	4000.5	4328.8	4891.9	5580.8	5928.7	5395.2	4690.1	4096.1	3755.2	3714.4
62.5°	3173.8	3184.4	3667.3	4541.1	5911.9	6813.0	5602.6	4336.5	3504.9	3041.7	3025.5
64°	2283.9	2392.2	2903.9	3981.5	5767.0	7149.8	5483.1	3840.9	2847.0	2378.1	2302.2
65°	1708.2	1737.7	2340.8	3400.2	5511.9	7124.5	5251.1	3367.2	2357.7	1820.0	1735.6
67.5°	645.3	648.8	863.9	1694.8	3923.9	6129.8	4007.5	1831.9	993.3	718.4	692.4
70°	267.8	272.7	317.0	570.1	1686.4	3935.8	1932.4	660.8	363.4	294.5	290.3
72.5°	196.1	198.9	212.3	253.1	518.8	1616.1	635.5	280.5	213.0	190.5	188.4
75°	153.9	155.4	165.2	186.3	241.8	447.8	264.3	192.6	162.4	146.2	144.8
77.5°	117.4	120.9	127.9	142.0	162.4	212.3	175.0	144.1	125.1	111.8	109.7
80°	80.8	85.1	98.4	104.0	109.0	137.8	119.5	109.0	97.7	81.5	76.6
82.5°	49.9	52.7	66.1	71.0	68.9	77.3	76.6	78.0	69.6	50.6	47.1
85°	26.0	27.4	35.9	37.3	34.4	31.6	39.4	45.7	42.9	28.8	28.1
87.5°	5.6	6.3	7.7	7.0	7.7	7.7	9.8	14.8	15.5	9.8	9.1
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)