

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: P528897

Luminaire Tested: **GALN-SA4A-735-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528897
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-735-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 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: 10114 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

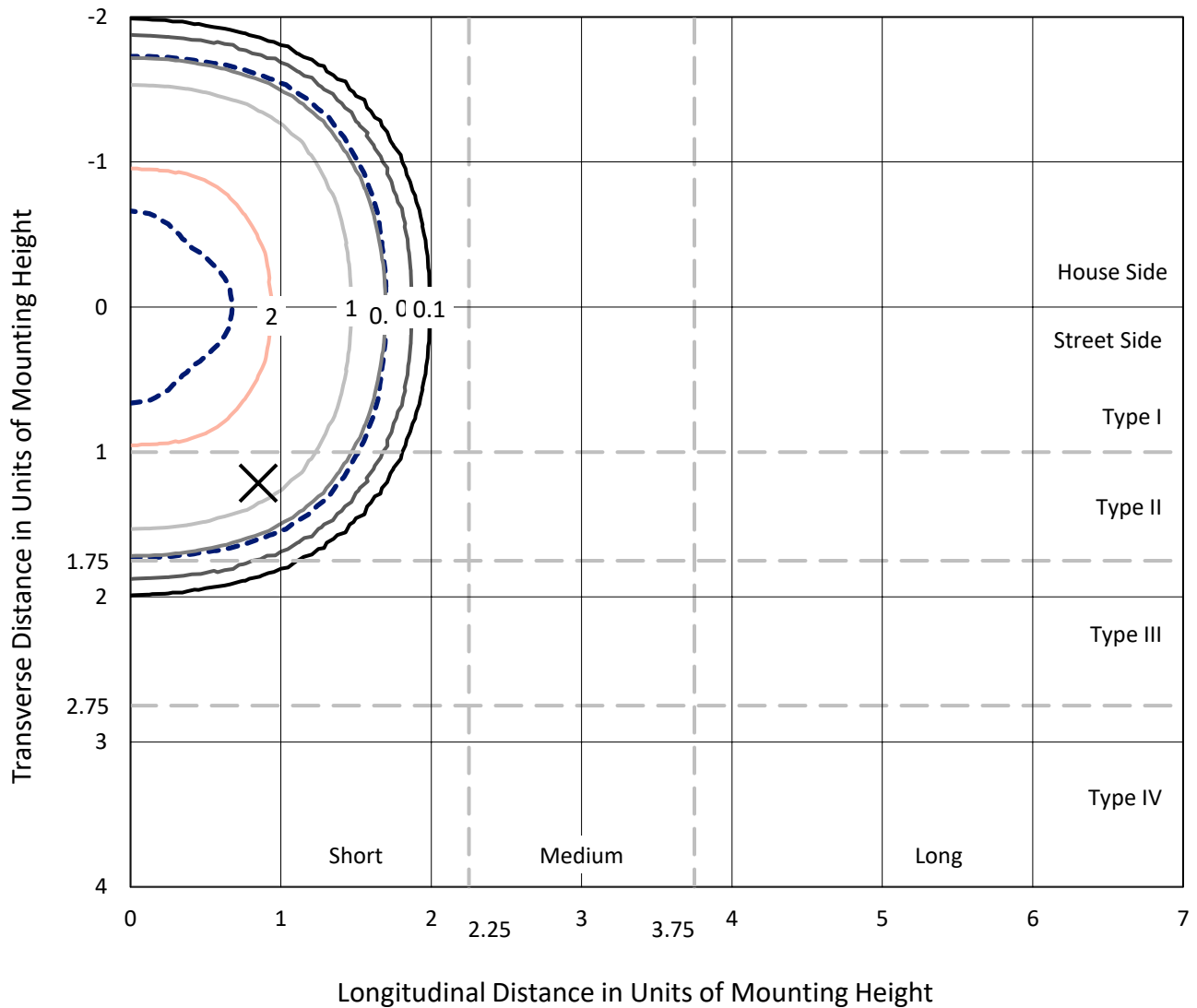
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

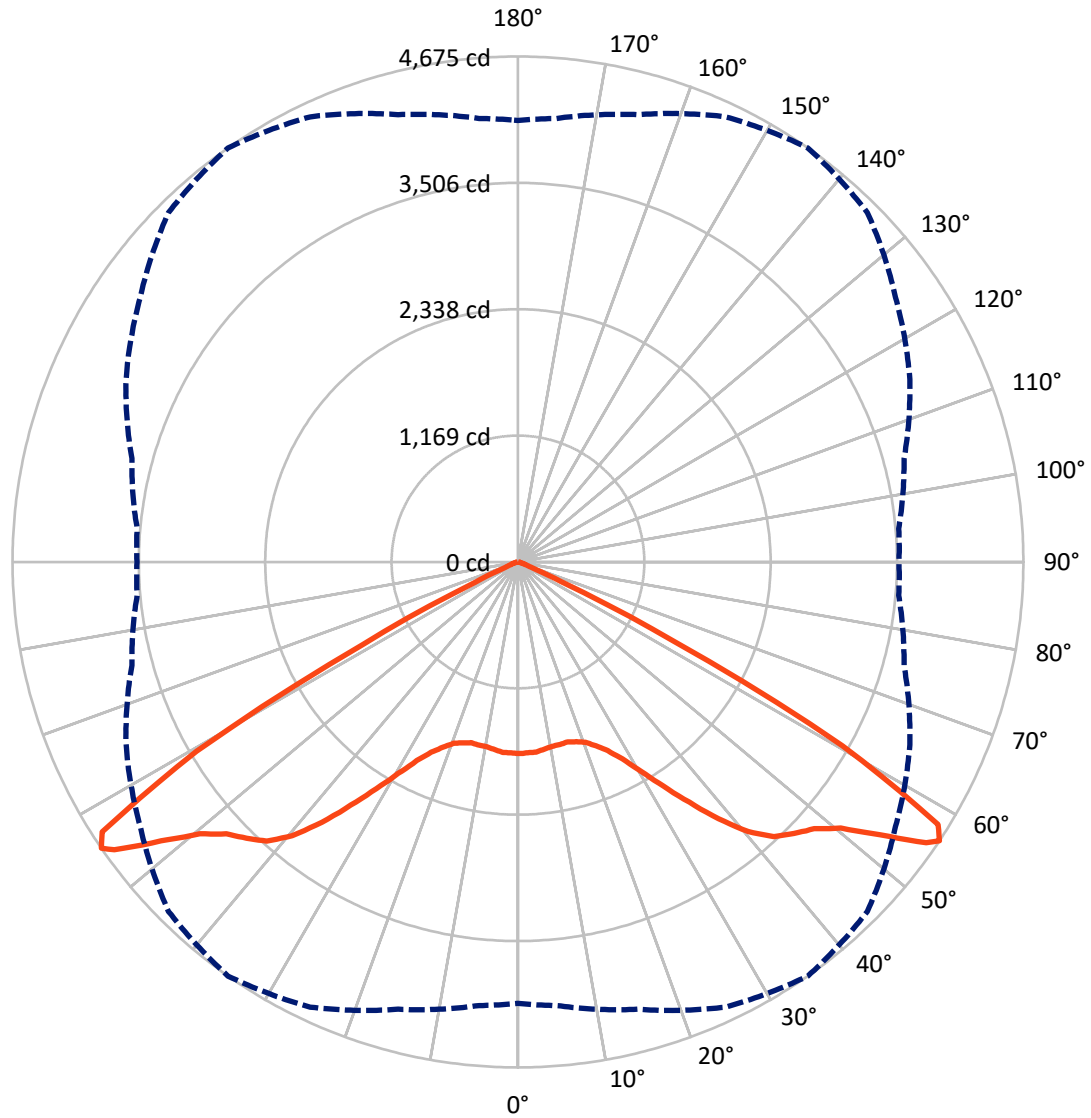
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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
House Side	Lumens	5057.0	0.0	5057.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5057.0	0.0	5057.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	10114.0	0.0	10114.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.6	1.6
10°-20°	486.3	4.8
20°-30°	880.6	8.7
30°-40°	1632.9	16.1
40°-50°	2680.3	26.5
50°-60°	3453.0	34.1
60°-70°	761.0	7.5
70°-80°	44.2	0.4
80°-90°	9.3	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°	10114.0	100.0
0°-180°	10114.0	100.0

Coefficient of Utilization



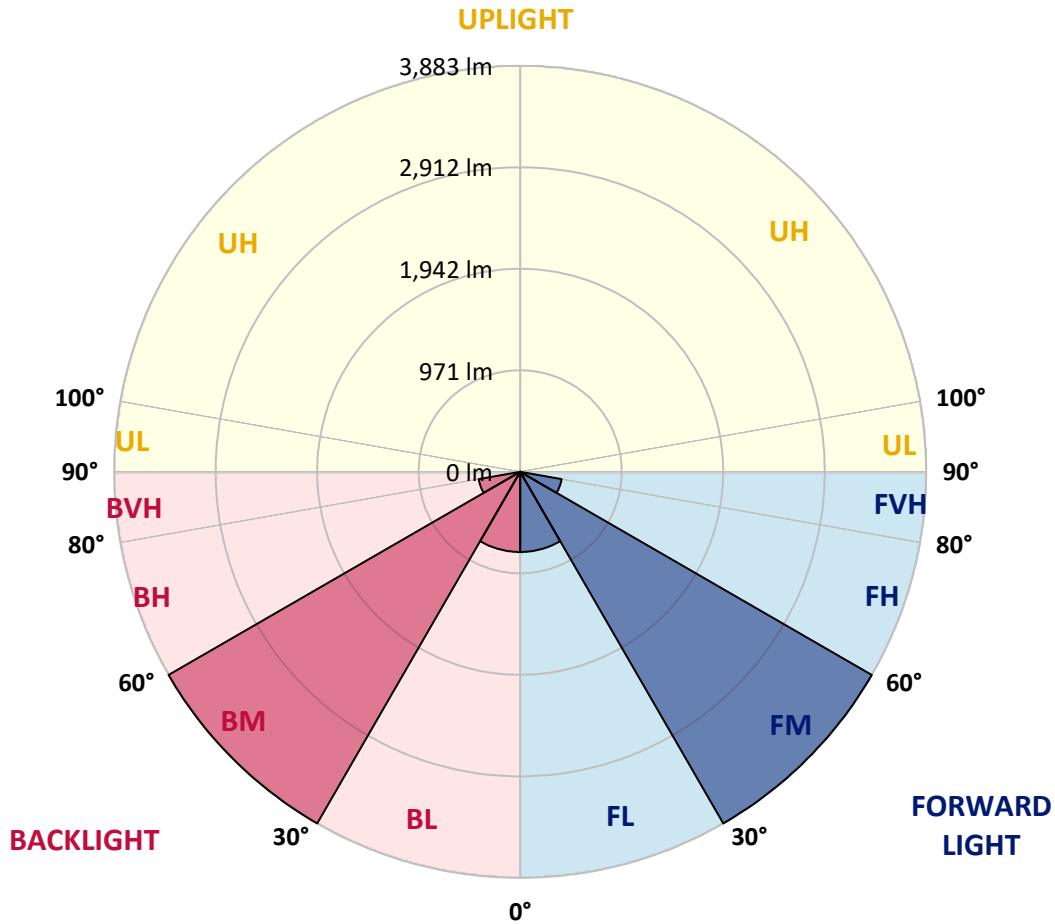
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	766.7	7.6			
FM (30°-60°)	3883.1	38.4			
FH (60°-80°)	402.6	4.0			G0/660
FVH (80°-90°)	4.6	0.0			G0/10
BL (0°-30°)	766.7	7.6	B2/1000		
BM (30°-60°)	3883.1	38.4	B3/5000		
BH (60°-80°)	402.6	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°	1772.2	1772.2	1772.2	1772.2	1772.2	1772.2	1772.2	1772.2	1772.2	1772.2	1772.2
2.5°	1775.9	1775.9	1777.7	1779.5	1766.7	1761.2	1763.0	1759.4	1757.5	1763.0	1763.0
5°	1770.4	1770.4	1764.9	1766.7	1766.7	1750.2	1750.2	1753.9	1753.9	1742.9	1739.2
7.5°	1755.7	1752.0	1744.7	1753.9	1748.4	1748.4	1735.5	1726.4	1722.7	1730.0	1722.7
10°	1724.5	1726.4	1733.7	1737.4	1733.7	1744.7	1722.7	1709.9	1697.1	1691.6	1691.6
12.5°	1709.9	1720.9	1709.9	1719.0	1731.9	1722.7	1709.9	1700.7	1682.4	1675.1	1675.1
15°	1708.0	1715.4	1719.0	1731.9	1726.4	1730.0	1704.4	1693.4	1665.9	1653.1	1647.6
17.5°	1706.2	1715.4	1720.9	1744.7	1748.4	1750.2	1730.0	1697.1	1673.2	1660.4	1647.6
20°	1726.4	1730.0	1741.0	1764.9	1779.5	1805.2	1768.5	1733.7	1682.4	1667.7	1662.2
22.5°	1752.0	1770.4	1781.4	1807.0	1845.5	1867.5	1819.8	1775.9	1722.7	1704.4	1682.4
25°	1834.5	1830.8	1849.2	1902.3	1933.5	1950.0	1911.5	1847.3	1777.7	1755.7	1759.4
27.5°	1937.1	1940.8	1957.3	2015.9	2061.8	2087.4	2041.6	1957.3	1889.5	1852.8	1849.2
30°	2070.9	2067.2	2085.6	2164.4	2246.9	2285.3	2204.7	2105.7	2039.8	1992.1	2003.1
32.5°	2212.0	2213.9	2265.2	2336.7	2470.4	2545.6	2415.5	2294.5	2195.5	2162.5	2146.1
35°	2421.0	2430.1	2470.4	2580.4	2728.8	2826.0	2683.0	2538.2	2424.6	2364.1	2371.5
37.5°	2679.4	2670.2	2738.0	2857.1	3012.9	3084.4	2963.4	2798.5	2683.0	2642.7	2668.4
40°	2954.3	2963.4	2998.2	3106.4	3280.5	3328.1	3148.5	3058.7	2957.9	2937.8	2968.9
42.5°	3229.2	3223.7	3249.3	3346.5	3472.9	3439.9	3333.6	3280.5	3209.0	3168.7	3210.8
45°	3430.8	3421.6	3469.2	3535.2	3581.0	3518.7	3471.1	3452.7	3416.1	3372.1	3410.6
47.5°	3626.9	3619.5	3665.3	3683.7	3687.3	3604.9	3614.0	3647.0	3555.4	3463.7	3507.7
50°	3793.6	3780.8	3837.6	3877.9	3868.8	3736.8	3769.8	3736.8	3593.9	3485.7	3469.2
52.5°	4072.2	4077.7	4138.2	4211.5	4189.5	4079.5	4031.9	3881.6	3698.3	3601.2	3544.4
55°	4248.1	4220.6	4325.1	4557.8	4583.5	4469.9	4259.1	4037.4	3762.5	3643.3	3628.7
56°	4083.2	4118.0	4282.9	4543.2	4675.1	4570.7	4264.6	3998.9	3696.5	3535.2	3524.2
57.5°	3663.5	3645.2	3868.8	4224.3	4583.5	4539.5	4114.3	3724.0	3372.1	3190.7	3168.7
60°	2279.8	2333.0	2529.1	2968.9	3449.1	3471.1	3049.6	2714.2	2303.7	2142.4	2180.9
62.5°	892.5	846.7	969.5	1297.5	1627.4	1700.7	1541.3	1281.0	1052.0	892.5	881.5
65°	207.1	201.6	227.3	313.4	438.0	507.6	482.0	346.4	254.7	241.9	223.6
67.5°	117.3	117.3	111.8	111.8	122.8	130.1	124.6	122.8	128.3	133.8	132.0
70°	82.5	80.6	77.0	78.8	75.1	75.1	80.6	89.8	97.1	97.1	99.0
72.5°	49.5	49.5	49.5	55.0	55.0	55.0	60.5	67.8	69.6	67.8	66.0
75°	22.0	22.0	25.7	31.2	34.8	36.7	42.2	45.8	49.5	45.8	42.2
77.5°	5.5	5.5	9.2	12.8	16.5	20.2	27.5	33.0	34.8	33.0	27.5
80°	1.8	1.8	3.7	9.2	16.5	20.2	27.5	29.3	31.2	27.5	22.0
82.5°	1.8	1.8	3.7	9.2	12.8	16.5	22.0	25.7	27.5	23.8	22.0
85°	0.0	1.8	3.7	7.3	11.0	14.7	14.7	11.0	9.2	5.5	7.3
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)