

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: P458979

Luminaire Tested: **GALN-SA5A-735-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458979
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5A-735-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22328 lumens
Efficiency: N/A
Efficacy: 145.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

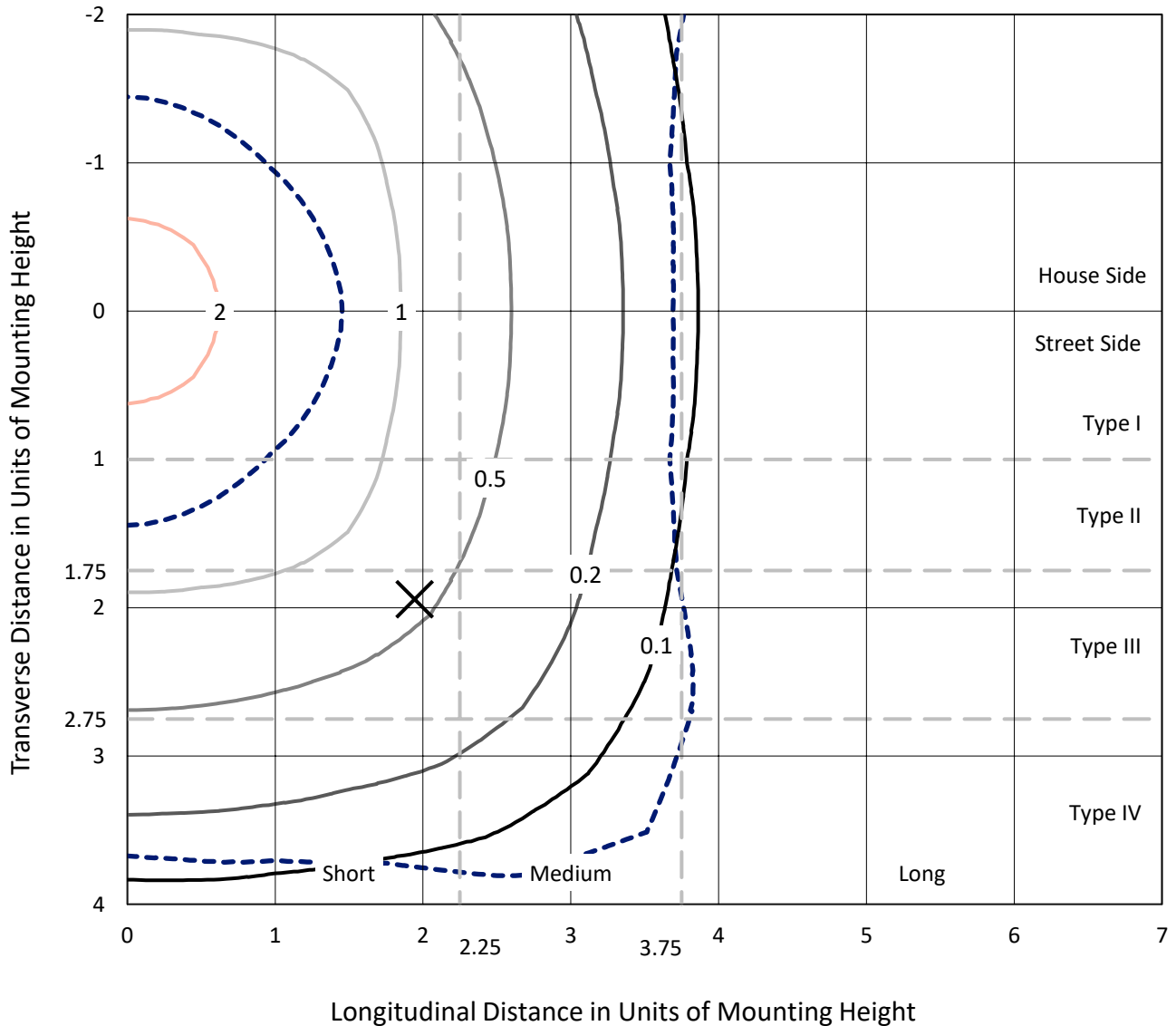
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458979
 CATALOG NUMBER: GALN-SA5A-735-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

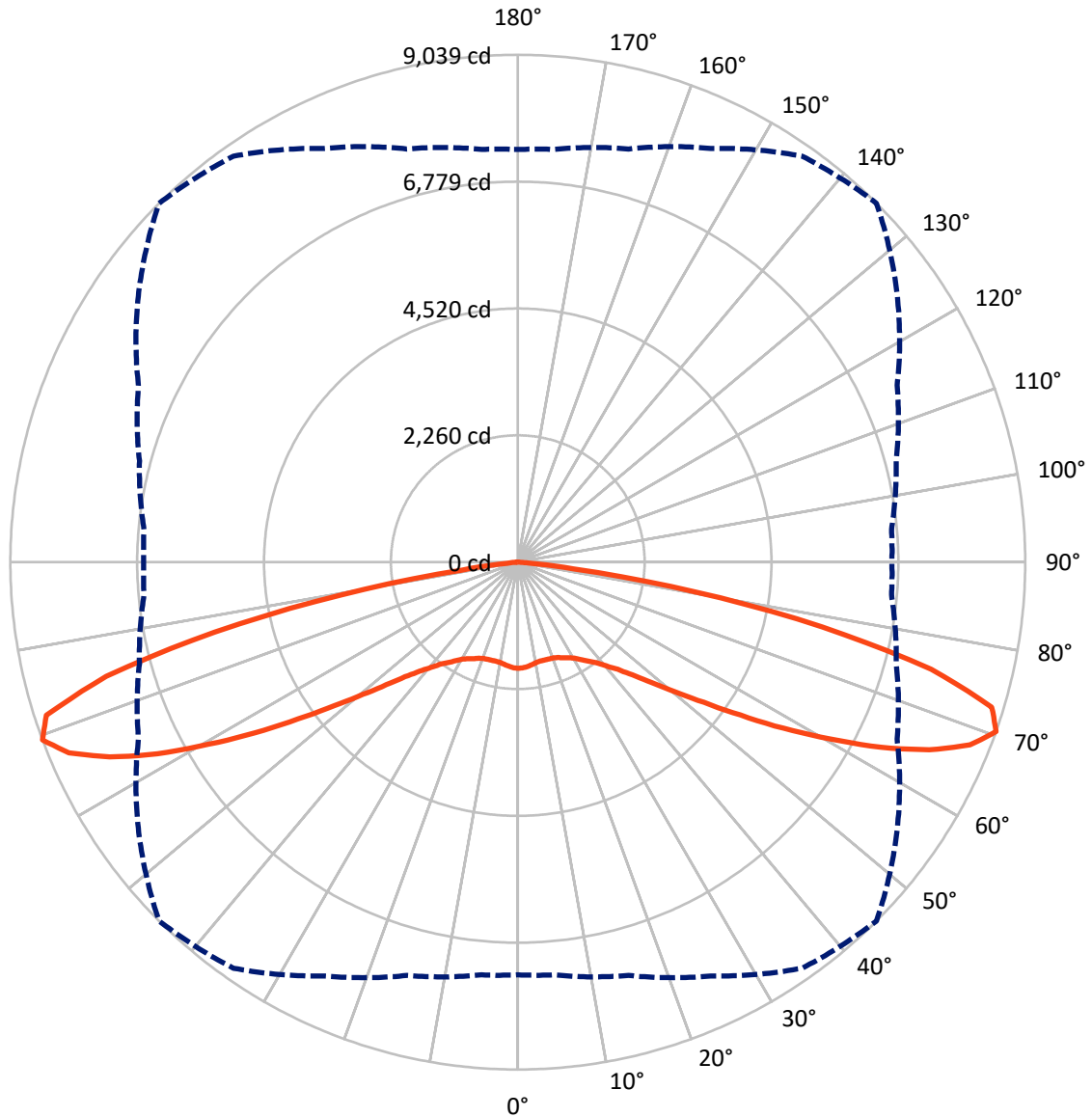
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P458979
CATALOG NUMBER: GALN-SA5A-735-U-5WQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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CATALOG NUMBER: GALN-SA5A-735-U-5WQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11164.0	0.0	11164.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11164.0	0.0	11164.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	22328.0	0.0	22328.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.8	0.8
10°-20°	517.5	2.3
20°-30°	881.8	3.9
30°-40°	1366.7	6.1
40°-50°	2300.4	10.3
50°-60°	4185.5	18.7
60°-70°	7085.9	31.7
70°-80°	5484.8	24.6
80°-90°	328.7	1.5
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°	22328.0	100.0
0°-180°	22328.0	100.0

Coefficient of Utilization



REPORT NUMBER: P458979

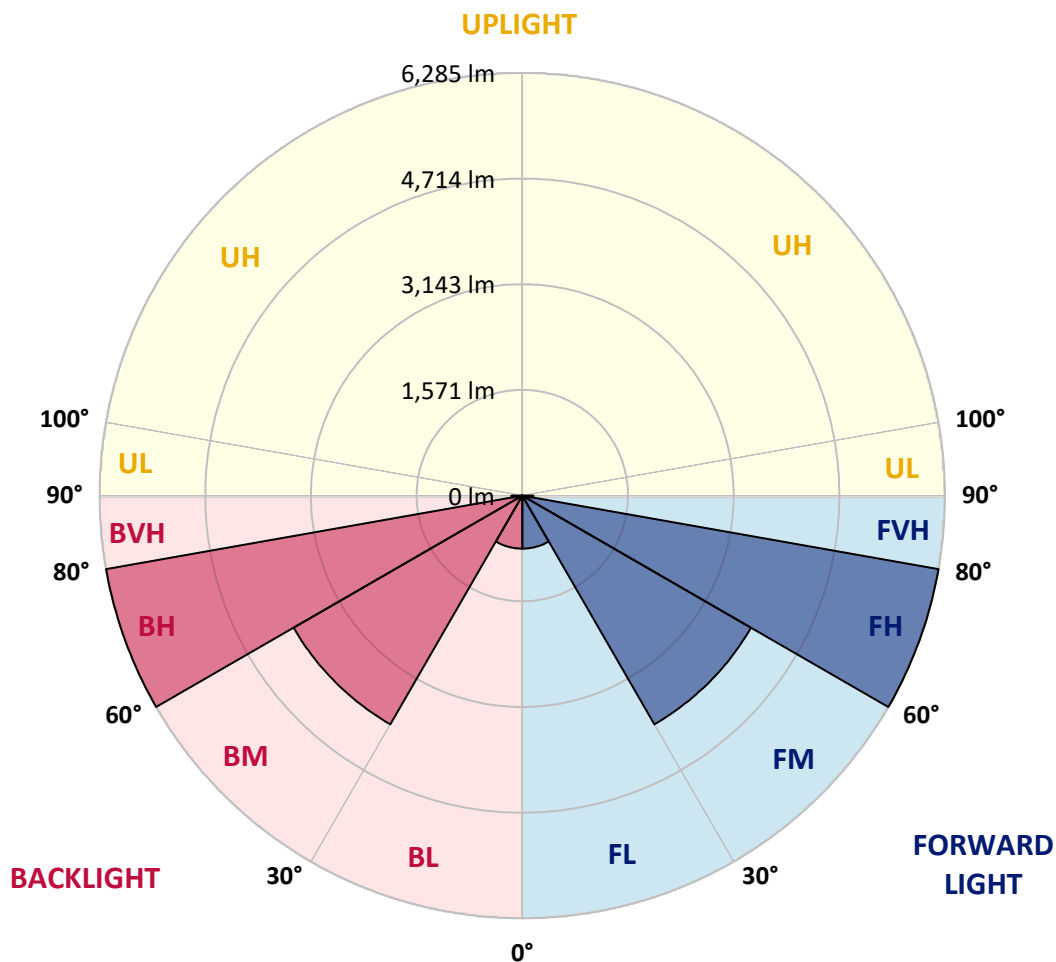
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	788.0	3.5			
FM (30°-60°)	3926.3	17.6			
FH (60°-80°)	6285.3	28.1			G3/7500
FVH (80°-90°)	164.3	0.7			G2/225
BL (0°-30°)	788.0	3.5	B2/1000		
BM (30°-60°)	3926.3	17.6	B3/5000		
BH (60°-80°)	6285.3	28.1	B5		G3/7500
BVH (80°-90°)	164.3	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





REPORT NUMBER: P458979

CATALOG NUMBER: GALN-SA5A-735-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1890.3	1890.3	1890.3	1890.3	1890.3	1890.3	1890.3	1890.3	1890.3	1890.3	1890.3
2.5°	1885.6	1886.8	1886.8	1884.4	1883.3	1883.3	1882.1	1882.1	1885.6	1886.8	1888.0
5°	1869.1	1869.1	1869.1	1867.9	1865.6	1865.6	1863.2	1863.2	1864.4	1867.9	1865.6
7.5°	1846.7	1849.1	1849.1	1844.3	1840.8	1840.8	1839.6	1840.8	1842.0	1845.5	1844.3
10°	1839.6	1840.8	1834.9	1826.7	1820.8	1817.2	1818.4	1820.8	1826.7	1829.0	1830.2
12.5°	1844.3	1844.3	1833.7	1821.9	1811.3	1806.6	1805.4	1813.7	1824.3	1831.4	1833.7
15°	1850.2	1847.9	1834.9	1819.6	1809.0	1807.8	1806.6	1812.5	1827.8	1842.0	1843.2
17.5°	1853.8	1852.6	1836.1	1817.2	1811.3	1811.3	1810.1	1814.9	1831.4	1849.1	1850.2
20°	1865.6	1862.0	1843.2	1823.1	1818.4	1820.8	1817.2	1823.1	1840.8	1862.0	1866.8
22.5°	1889.2	1885.6	1866.8	1846.7	1844.3	1844.3	1843.2	1849.1	1867.9	1890.3	1893.9
25°	1917.5	1913.9	1896.2	1882.1	1884.4	1889.2	1886.8	1888.0	1903.3	1922.2	1928.1
27.5°	1955.2	1949.3	1934.0	1922.2	1929.3	1929.3	1929.3	1928.1	1937.5	1955.2	1961.1
30°	2001.2	1998.8	1982.3	1981.1	1987.0	1981.1	1981.1	1982.3	1983.5	2000.0	2005.9
32.5°	2061.3	2056.6	2048.4	2046.0	2062.5	2067.2	2050.7	2035.4	2043.6	2060.2	2063.7
35°	2160.4	2153.3	2141.5	2128.5	2141.5	2163.9	2128.5	2116.8	2138.0	2160.4	2162.7
37.5°	2294.8	2291.3	2272.4	2248.8	2247.7	2271.2	2234.7	2233.5	2273.6	2300.7	2304.3
40°	2463.5	2467.0	2443.4	2421.0	2409.2	2428.1	2399.8	2410.4	2449.3	2480.0	2477.6
42.5°	2700.5	2687.5	2651.0	2629.7	2616.8	2609.7	2602.6	2619.1	2662.7	2695.8	2721.7
45°	2977.6	2972.9	2926.9	2901.0	2872.7	2862.0	2859.7	2889.2	2942.2	2982.3	2985.9
47.5°	3291.3	3280.7	3251.2	3224.1	3213.5	3200.5	3188.7	3211.1	3264.2	3292.5	3300.7
50°	3614.4	3616.8	3616.8	3612.0	3622.7	3625.0	3593.2	3601.4	3630.9	3628.6	3626.2
52.5°	3983.5	3996.5	4057.8	4063.7	4114.4	4148.6	4090.8	4056.6	4046.0	3982.3	3987.0
55°	4417.5	4429.3	4521.2	4613.2	4750.0	4807.8	4686.3	4580.2	4504.7	4408.0	4412.8
57.5°	4958.7	4964.6	5051.9	5228.8	5445.8	5581.4	5367.9	5158.0	5004.7	4912.8	4876.2
60°	5541.3	5547.2	5674.6	5890.4	6227.6	6392.7	6128.6	5785.4	5592.0	5451.7	5461.1
62.5°	6240.6	6264.2	6378.6	6675.7	7084.9	7270.1	6919.8	6461.1	6199.3	6024.8	6031.9
65°	6989.4	7029.5	7154.5	7481.2	7858.5	8057.8	7628.6	7099.1	6773.6	6560.2	6582.6
67.5°	7475.3	7510.6	7691.1	8051.9	8522.4	8687.5	8133.3	7516.5	7109.7	6855.0	6807.8
70°	7351.4	7380.9	7621.5	8133.3	8830.2	9039.0	8253.6	7455.2	6976.4	6682.8	6663.9
72.5°	6489.4	6428.1	6779.5	7514.2	8478.8	8829.0	7875.0	6809.0	6206.4	5904.5	5869.1
75°	4300.7	4434.0	4952.9	5818.4	7173.4	7607.3	6721.7	5467.0	4708.7	4457.6	4418.7
77.5°	1437.5	1540.1	2001.2	3298.4	4890.4	5542.5	4897.4	3575.5	2529.5	2037.7	2047.2
80°	380.9	376.2	487.0	906.8	2113.2	3209.9	2459.9	1211.1	662.7	480.0	455.2
82.5°	136.8	153.3	196.9	251.2	560.1	997.6	704.0	339.6	248.8	184.0	178.1
85°	60.1	59.0	84.9	100.2	140.3	186.3	165.1	143.9	126.2	83.7	77.8
87.5°	13.0	13.0	20.0	15.3	24.8	24.8	30.7	36.6	37.7	24.8	20.0
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)