

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: P458774

Luminaire Tested: **GALN-SA3B-735-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458774
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3B-735-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16596 lumens
Efficiency: N/A
Efficacy: 137.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

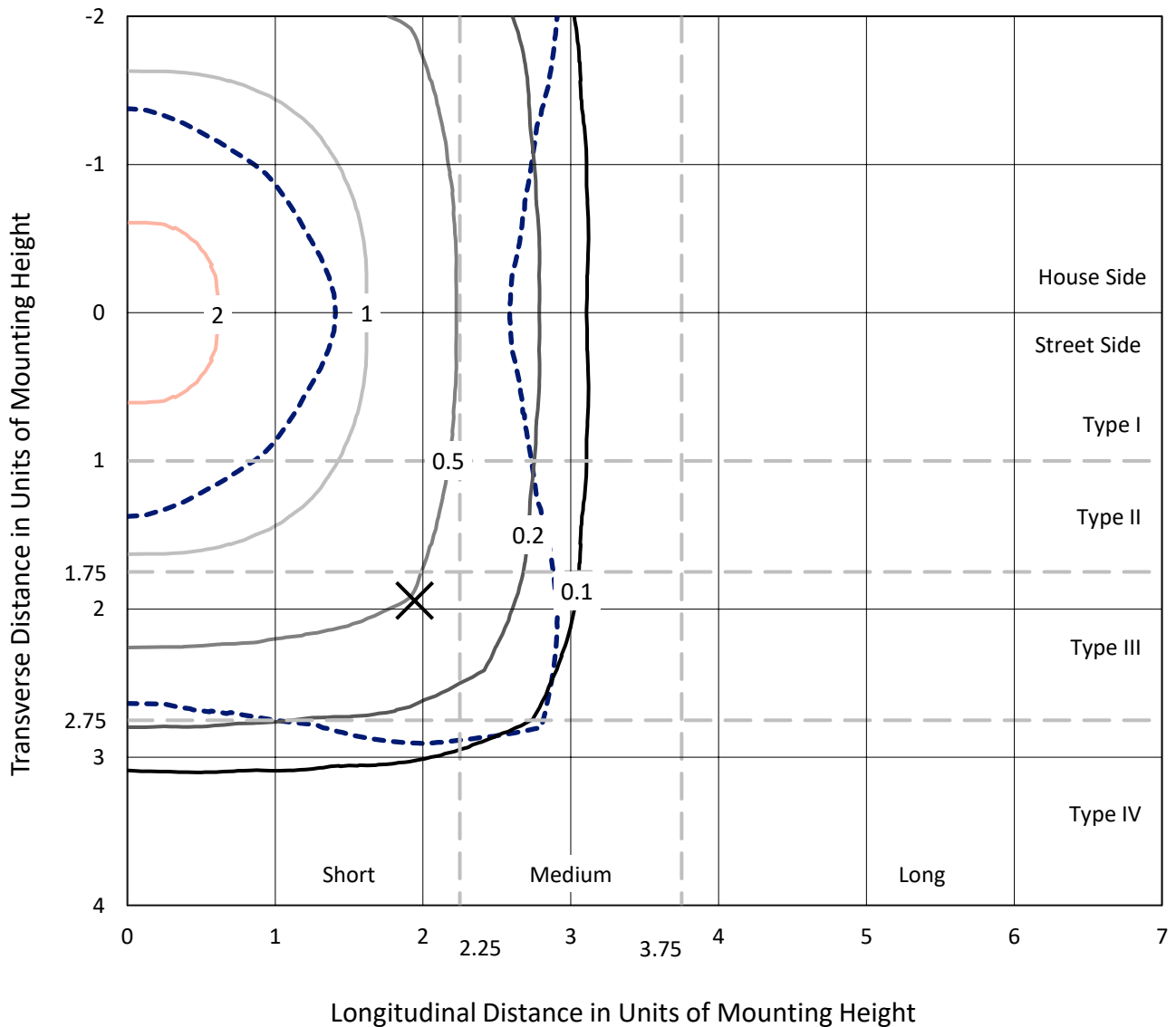
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458774
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Iso-Footcandle Lines of Horizontal Illumination

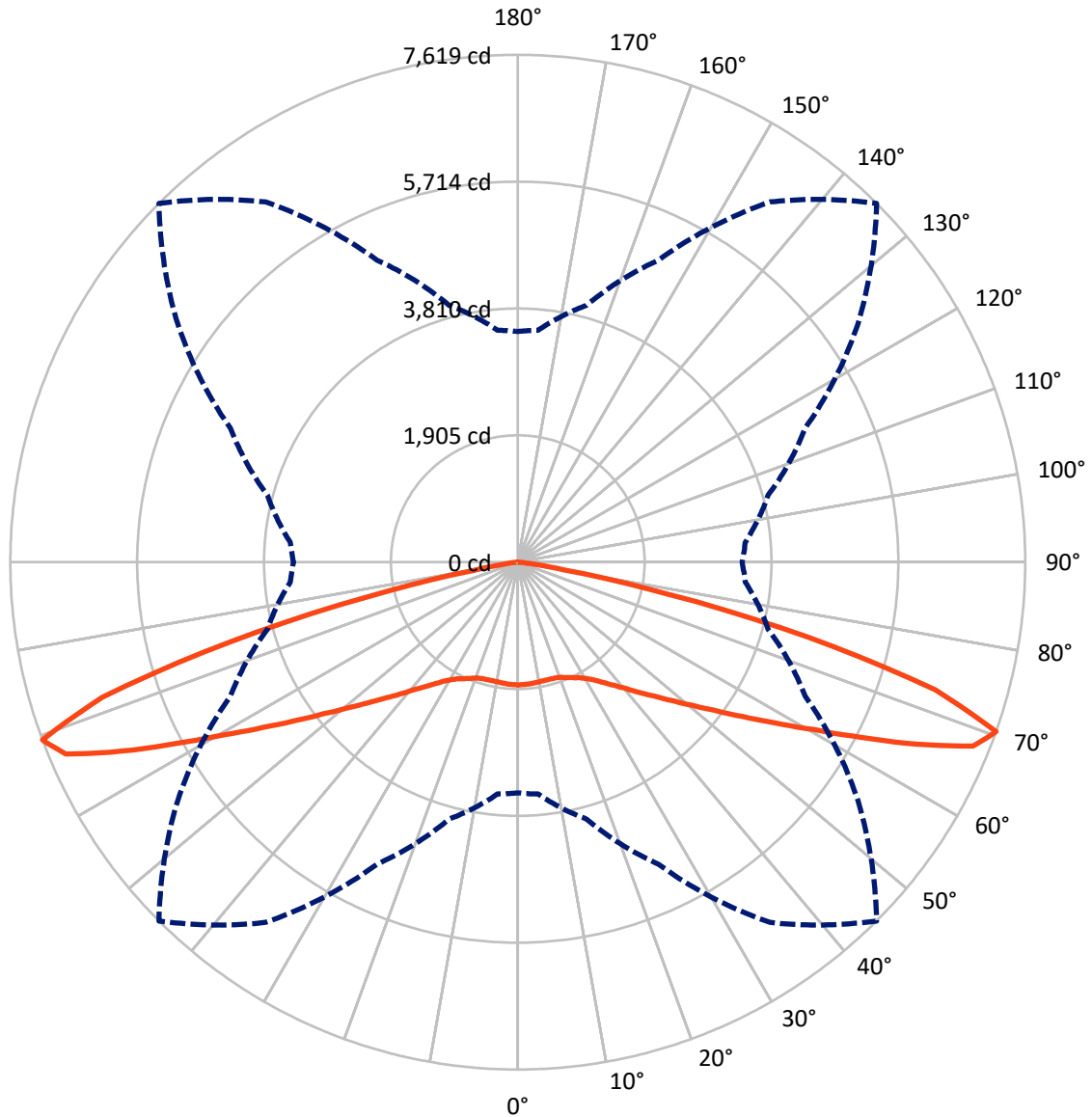
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type V - Short - N/A

REPORT NUMBER: P458774
CATALOG NUMBER: GALN-SA3B-735-U-5MQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P458774

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8298.0	0.0	8298.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8298.0	0.0	8298.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	16596.0	0.0	16596.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.8	1.1
10°-20°	512.8	3.1
20°-30°	877.1	5.3
30°-40°	1392.1	8.4
40°-50°	2245.9	13.5
50°-60°	3654.1	22.0
60°-70°	5297.0	31.9
70°-80°	2349.6	14.2
80°-90°	92.7	0.6
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°	16596.0	100.0
0°-180°	16596.0	100.0



REPORT NUMBER: P458774

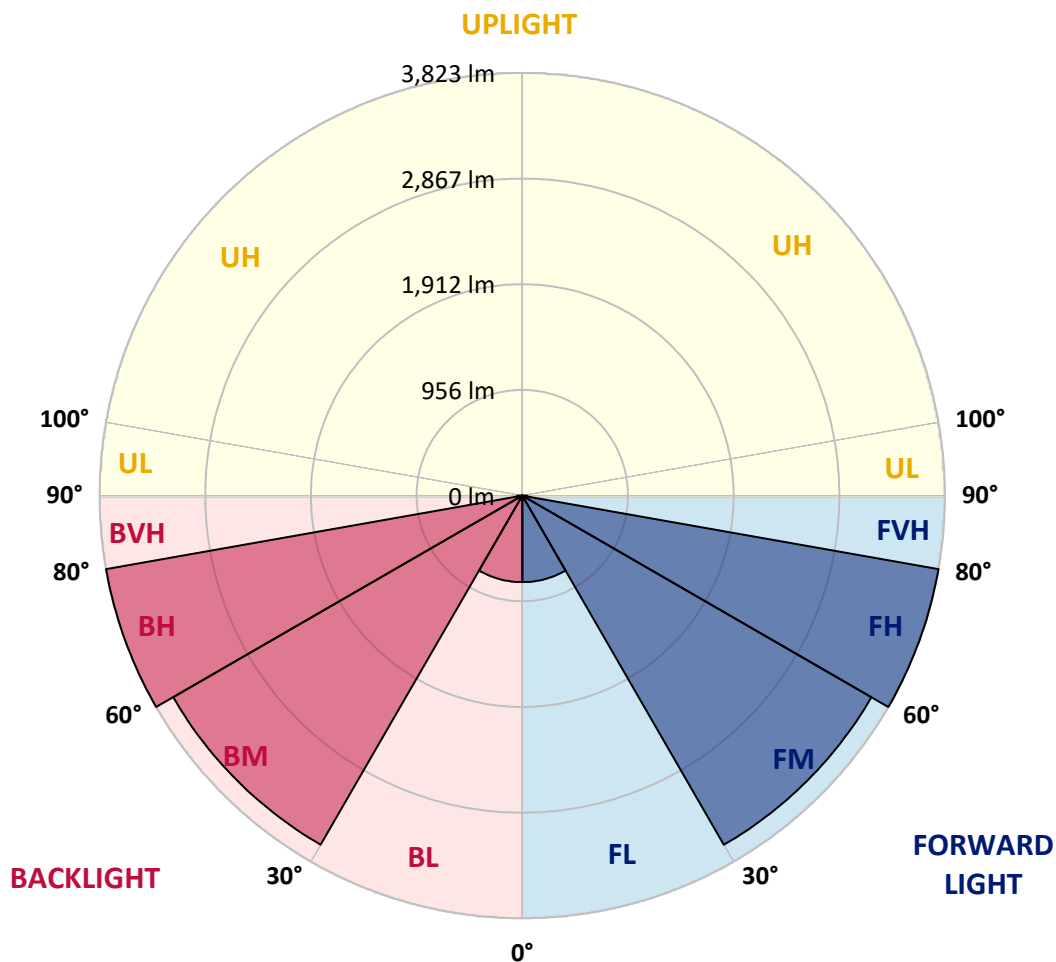
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	782.3	4.7			
FM (30°-60°)	3646.0	22.0			
FH (60°-80°)	3823.3	23.0			G2/5000
FVH (80°-90°)	46.3	0.3			G1/100
BL (0°-30°)	782.3	4.7	B2/1000		
BM (30°-60°)	3646.0	22.0	B3/5000		
BH (60°-80°)	3823.3	23.0	B4/5000		G2/5000
BVH (80°-90°)	46.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1842.9	1842.9	1842.9	1842.9	1842.9	1842.9	1842.9	1842.9	1842.9	1842.9	1842.9
2.5°	1842.9	1844.7	1842.0	1840.3	1839.4	1839.4	1838.5	1839.4	1844.7	1845.5	1842.9
5°	1837.7	1839.4	1838.5	1836.8	1835.9	1835.9	1835.0	1834.2	1838.5	1840.3	1839.4
7.5°	1830.7	1831.5	1830.7	1829.8	1830.7	1829.8	1827.2	1825.4	1828.9	1828.9	1828.0
10°	1818.4	1820.2	1819.3	1820.2	1821.9	1821.9	1818.4	1814.9	1815.8	1814.0	1814.0
12.5°	1803.5	1806.2	1807.0	1810.5	1814.9	1820.2	1812.3	1804.4	1802.7	1801.8	1800.9
15°	1793.9	1796.6	1800.0	1803.5	1811.4	1822.8	1811.4	1799.2	1795.7	1792.2	1790.4
17.5°	1791.3	1794.8	1800.0	1805.3	1815.8	1827.2	1817.5	1805.3	1796.6	1791.3	1789.6
20°	1798.3	1800.9	1808.8	1818.4	1833.3	1844.7	1835.0	1821.9	1808.8	1800.9	1798.3
22.5°	1812.3	1816.7	1826.3	1843.8	1864.8	1881.4	1868.3	1846.4	1825.4	1814.9	1811.4
25°	1842.9	1846.4	1857.8	1881.4	1905.9	1921.6	1907.6	1882.3	1853.4	1839.4	1835.0
27.5°	1889.3	1894.5	1906.8	1934.7	1954.9	1963.6	1954.0	1936.5	1915.5	1900.6	1897.1
30°	1954.9	1961.0	1979.4	2009.1	2022.2	2027.5	2023.1	2011.7	1996.8	1981.1	1977.6
32.5°	2043.2	2046.7	2067.7	2095.7	2107.9	2109.7	2104.4	2099.2	2074.7	2048.5	2046.7
35°	2142.0	2148.2	2173.5	2206.8	2218.1	2219.0	2208.5	2200.6	2171.8	2150.8	2150.8
37.5°	2273.2	2275.9	2300.4	2338.0	2350.2	2346.7	2341.5	2334.5	2303.9	2276.7	2277.6
40°	2427.2	2432.4	2453.4	2497.2	2497.2	2492.8	2496.3	2491.0	2460.4	2434.2	2435.1
42.5°	2610.0	2612.6	2638.0	2684.3	2680.8	2672.1	2675.6	2668.6	2649.3	2619.6	2609.1
45°	2805.0	2815.5	2859.3	2903.9	2896.9	2868.9	2882.9	2881.1	2863.6	2819.0	2821.7
47.5°	3040.3	3057.8	3099.8	3153.1	3145.3	3101.5	3117.3	3127.8	3103.3	3054.3	3045.6
50°	3305.3	3316.7	3378.8	3428.7	3421.7	3375.3	3411.2	3412.9	3351.7	3282.6	3282.6
52.5°	3587.9	3599.2	3683.2	3761.0	3765.4	3698.1	3726.9	3725.2	3625.5	3534.5	3517.0
55°	3904.5	3909.7	4018.2	4132.8	4157.3	4091.7	4095.2	4060.2	3930.7	3824.9	3815.3
57.5°	4231.6	4250.8	4370.7	4519.4	4592.0	4551.7	4533.4	4439.8	4314.7	4193.1	4187.0
60°	4593.7	4594.6	4750.3	4926.1	5073.0	5100.1	5024.9	4899.8	4738.0	4577.1	4570.1
62.5°	4844.7	4882.3	5079.1	5376.5	5639.8	5792.0	5593.4	5331.0	5012.7	4752.9	4726.7
65°	4896.3	4921.7	5221.7	5725.5	6263.4	6591.4	6132.2	5574.2	5031.0	4684.7	4667.2
67.5°	4479.1	4506.2	4910.3	5683.5	6700.8	7373.4	6482.1	5457.0	4719.7	4291.1	4257.0
70°	3464.5	3495.1	3994.6	5003.1	6603.7	7619.2	6232.8	4759.9	3892.2	3429.5	3367.4
72.5°	1842.0	1954.9	2381.7	3433.9	5359.9	6559.9	5110.6	3473.3	2510.3	2052.0	1969.7
75°	672.6	686.6	924.5	1522.8	3118.2	4498.4	3238.0	1656.6	952.5	735.6	698.0
77.5°	278.1	277.3	304.4	460.1	1132.7	2303.9	1263.9	486.3	303.5	280.8	277.3
80°	164.4	164.4	181.1	191.6	298.3	695.4	333.2	216.9	181.9	166.2	168.8
82.5°	73.5	77.8	114.6	120.7	144.3	190.7	160.9	138.2	119.0	82.2	74.3
85°	40.2	35.0	60.4	63.0	69.1	70.8	76.1	75.2	69.1	40.2	41.1
87.5°	7.9	9.6	17.5	13.1	14.9	13.1	17.5	24.5	25.4	14.0	11.4
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)