

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: P647861

Luminaire Tested: **GALN-SA4A-835-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647861
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-835-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9731.1 lumens
Efficiency: N/A
Efficacy: 80.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

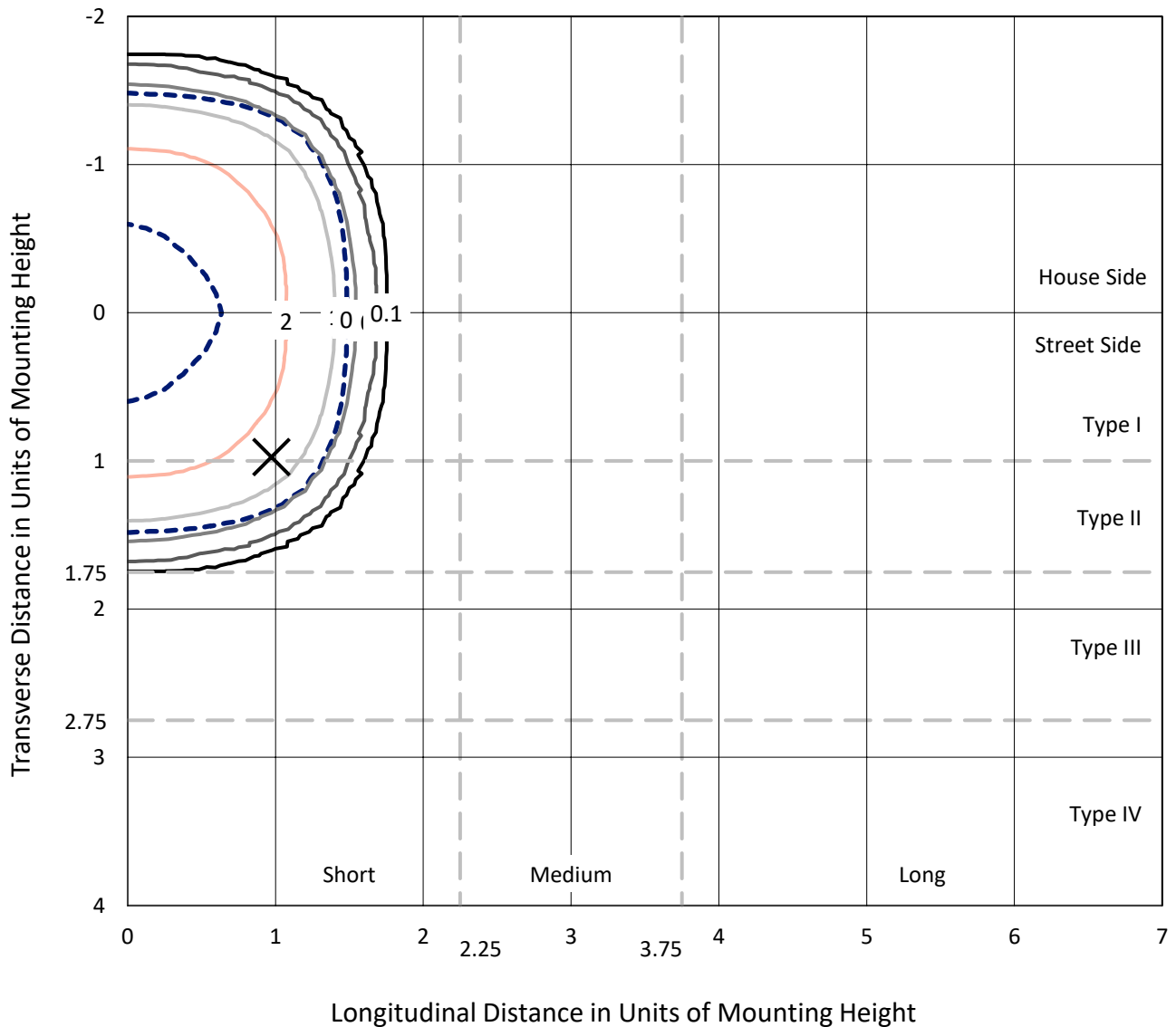
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

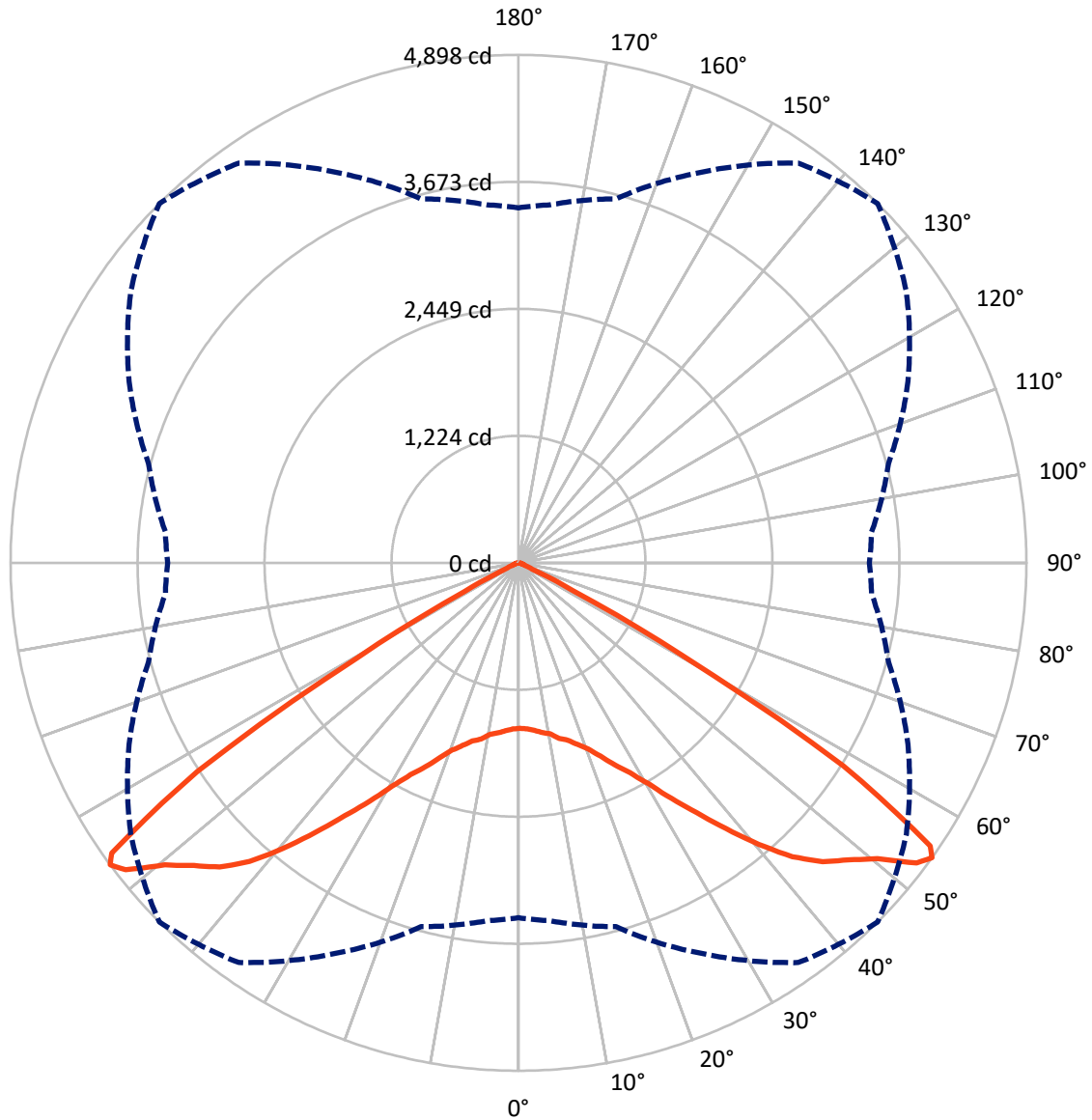
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P647861
CATALOG NUMBER: GALN-SA4A-835-U-5NQ-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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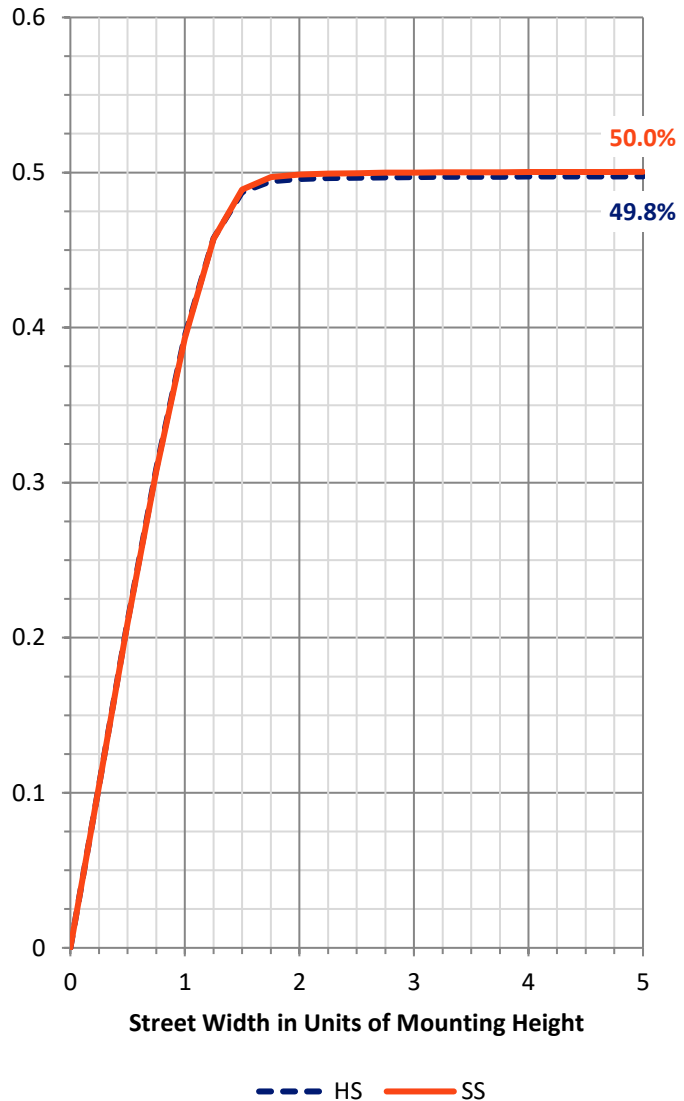
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4865.6	0.0	4865.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4865.6	0.0	4865.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	9731.1	0.0	9731.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.2	1.6
10°-20°	505.7	5.2
20°-30°	991.2	10.2
30°-40°	1782.4	18.3
40°-50°	3051.2	31.4
50°-60°	2952.3	30.3
60°-70°	252.7	2.6
70°-80°	30.0	0.3
80°-90°	9.4	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°	9731.1	100.0
0°-180°	9731.1	100.0

Coefficient of Utilization



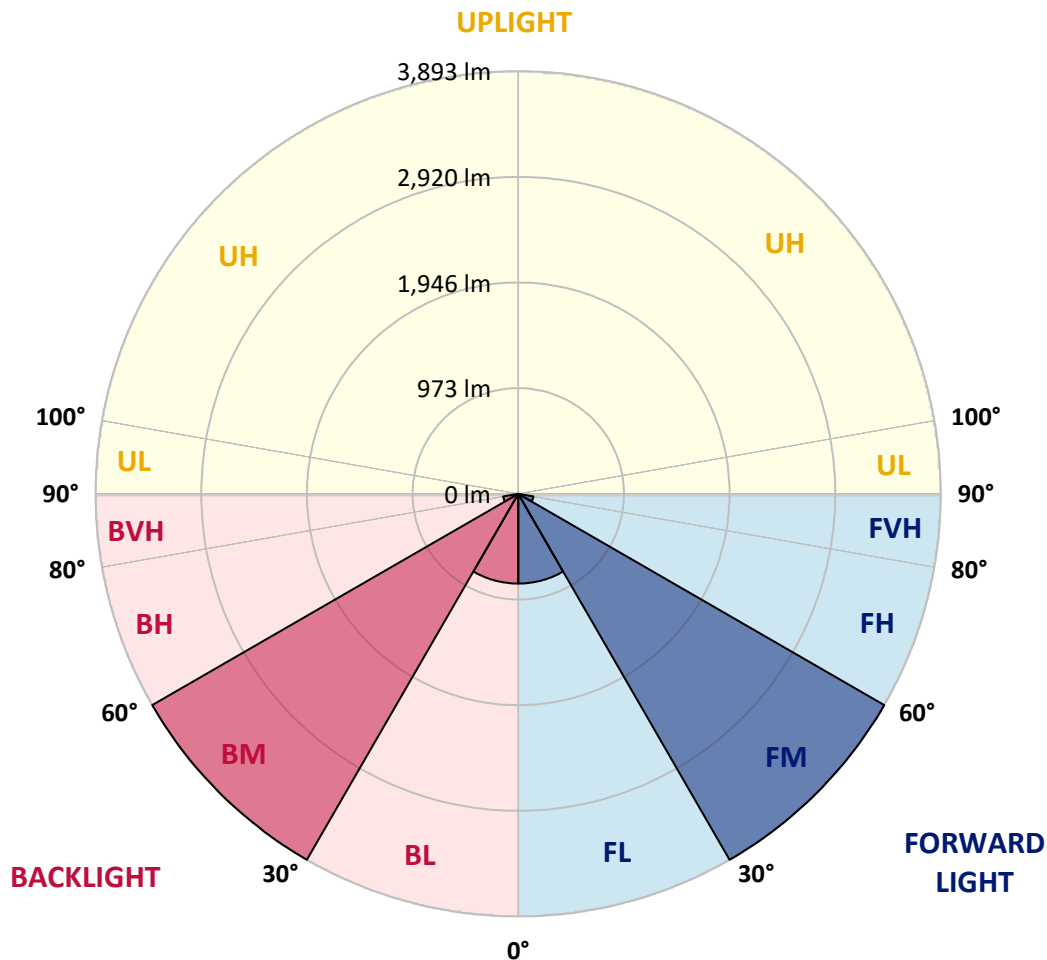
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	826.6	8.5			
FM (30°-60°)	3892.9	40.0			
FH (60°-80°)	141.3	1.5			G0/660
FVH (80°-90°)	4.7	0.0			G0/10
BL (0°-30°)	826.6	8.5	B2/1000		
BM (30°-60°)	3892.9	40.0	B3/5000		
BH (60°-80°)	141.3	1.5	B1/500		G0/660
BVH (80°-90°)	4.7	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°	1595.6	1595.6	1595.6	1595.6	1595.6	1595.6	1595.6	1595.6	1595.6	1595.6	1595.6
2.5°	1603.3	1612.6	1606.4	1611.0	1611.0	1603.3	1608.0	1589.4	1601.8	1592.5	1594.0
5°	1628.0	1626.4	1626.4	1628.0	1621.8	1624.9	1618.7	1612.6	1608.0	1601.8	1620.3
7.5°	1658.8	1658.8	1648.0	1651.1	1648.0	1652.7	1640.3	1628.0	1623.3	1618.7	1615.6
10°	1688.1	1685.0	1680.4	1694.3	1683.4	1677.3	1671.2	1663.4	1646.5	1640.3	1634.1
12.5°	1731.3	1729.7	1723.5	1737.4	1731.3	1737.4	1714.3	1694.3	1691.2	1671.2	1682.0
15°	1782.1	1796.0	1785.2	1785.2	1782.1	1774.4	1765.2	1756.0	1728.2	1720.5	1722.1
17.5°	1848.4	1843.8	1845.4	1845.4	1860.8	1840.8	1822.2	1799.1	1785.2	1780.6	1765.2
20°	1911.6	1917.8	1916.2	1927.0	1936.3	1914.7	1894.7	1891.6	1853.0	1859.2	1837.6
22.5°	2022.6	2018.0	2025.7	2033.5	2027.3	2024.2	2005.7	1982.6	1948.7	1933.2	1930.2
25°	2139.8	2132.1	2118.2	2136.7	2146.0	2159.8	2124.4	2112.1	2059.6	2036.5	2038.1
27.5°	2240.0	2250.8	2266.2	2273.9	2297.1	2292.4	2267.7	2227.7	2187.6	2161.4	2144.4
30°	2377.2	2383.4	2409.6	2420.4	2460.5	2471.2	2432.7	2386.4	2315.6	2281.7	2261.6
32.5°	2503.6	2546.8	2545.2	2599.2	2663.9	2708.6	2639.3	2568.4	2497.5	2457.4	2421.9
35°	2708.6	2701.0	2745.7	2802.7	2907.5	2958.4	2882.8	2801.2	2693.3	2628.5	2600.7
37.5°	2899.8	2902.9	2963.0	3054.0	3174.3	3252.9	3186.6	3052.4	2941.4	2858.2	2819.7
40°	3177.3	3183.5	3245.1	3348.4	3484.1	3568.9	3491.8	3356.2	3208.2	3143.4	3143.4
42.5°	3502.6	3528.8	3568.9	3658.3	3780.1	3874.1	3804.8	3698.4	3548.9	3465.6	3477.9
45°	3837.2	3849.5	3875.7	4008.3	4065.3	4111.5	4046.8	3997.4	3897.3	3795.5	3778.6
47.5°	4150.1	4154.8	4231.8	4273.5	4318.2	4279.6	4321.2	4256.5	4143.9	4045.3	4025.2
50°	4288.9	4281.1	4390.6	4517.0	4551.0	4483.1	4447.7	4404.5	4233.4	4114.7	4062.2
52.5°	3884.9	3929.6	4133.1	4484.6	4749.8	4806.8	4600.3	4401.4	4082.2	3851.0	3815.6
54°	3422.4	3464.1	3632.1	4153.2	4705.1	4897.8	4564.8	4142.4	3692.2	3417.8	3382.4
55°	2964.6	2918.3	3223.6	3755.4	4495.4	4817.6	4424.5	3807.9	3293.0	3041.6	2992.3
57.5°	1604.8	1612.6	1870.0	2372.6	3158.9	3693.8	3262.1	2576.1	1945.5	1663.4	1638.7
60°	508.7	521.1	633.6	958.9	1509.2	1802.2	1544.7	1034.4	715.3	573.5	550.4
62.5°	158.8	165.0	180.4	268.3	413.2	590.5	462.5	277.5	206.6	189.6	192.7
65°	97.1	97.1	98.7	104.8	123.3	143.4	138.7	121.8	117.1	114.1	112.5
67.5°	63.2	61.7	64.8	69.4	72.4	74.0	78.6	83.2	81.7	78.6	78.6
70°	38.5	37.0	40.1	46.3	47.8	50.9	55.5	61.7	60.1	57.0	58.6
72.5°	21.6	21.6	23.1	27.7	32.3	35.5	40.1	44.7	46.3	44.7	44.7
75°	7.7	9.2	12.4	17.0	20.0	24.7	29.3	33.9	38.5	35.5	33.9
77.5°	3.1	3.1	6.2	10.8	15.4	20.0	27.7	32.3	35.5	32.3	29.3
80°	1.6	1.6	4.6	9.2	13.9	18.5	23.1	27.7	29.3	26.2	23.1
82.5°	1.6	1.6	4.6	9.2	13.9	17.0	24.7	27.7	30.9	27.7	23.1
85°	0.0	1.6	4.6	9.2	12.4	13.9	13.9	9.2	7.7	4.6	4.6
87.5°	0.0	0.0	1.6	0.0	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)