

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: P452974

Luminaire Tested: **GALN-SA4A-727-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452974
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-SA4A-727-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15868 lumens
Efficiency: N/A
Efficacy: 131.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

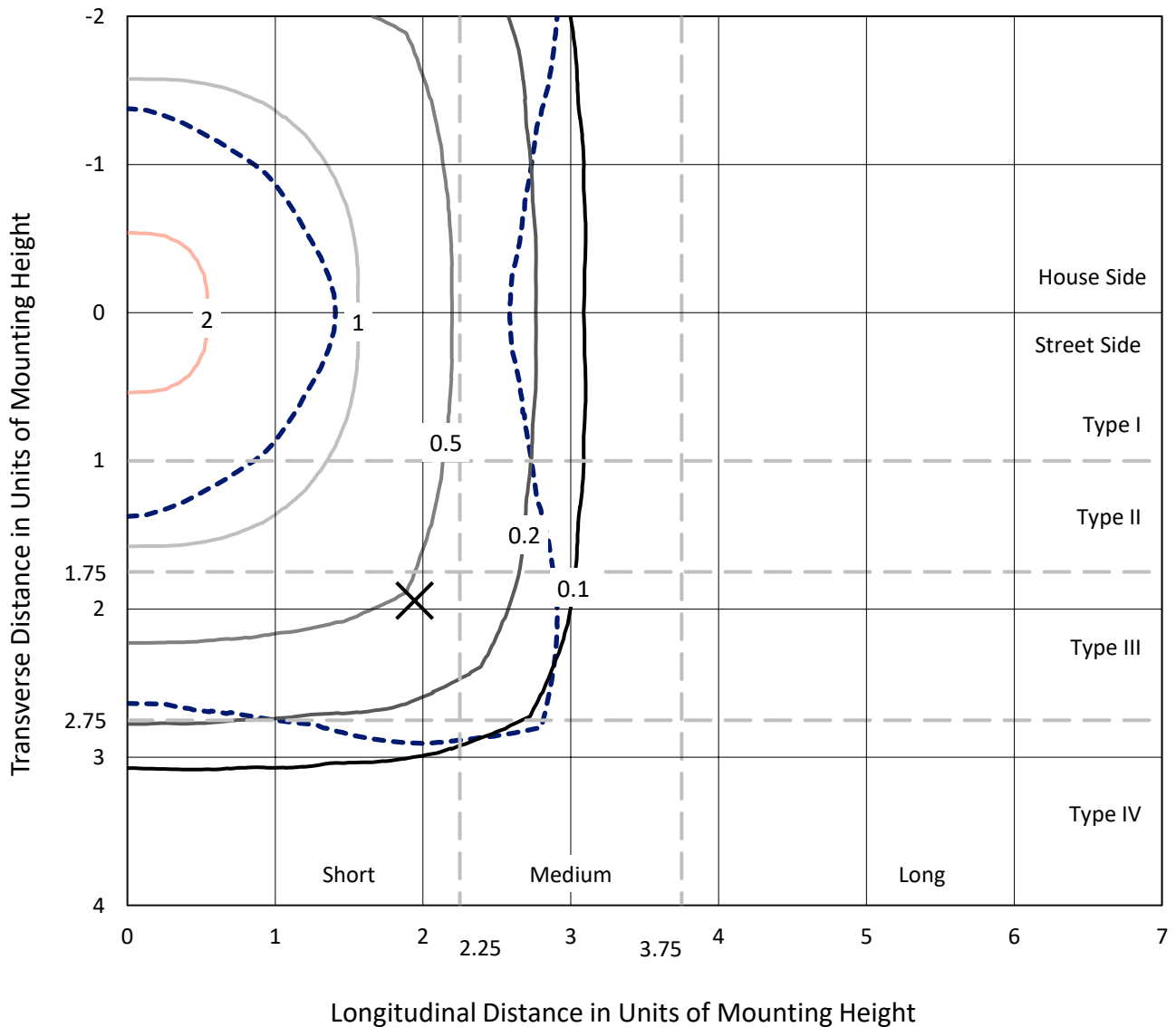
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

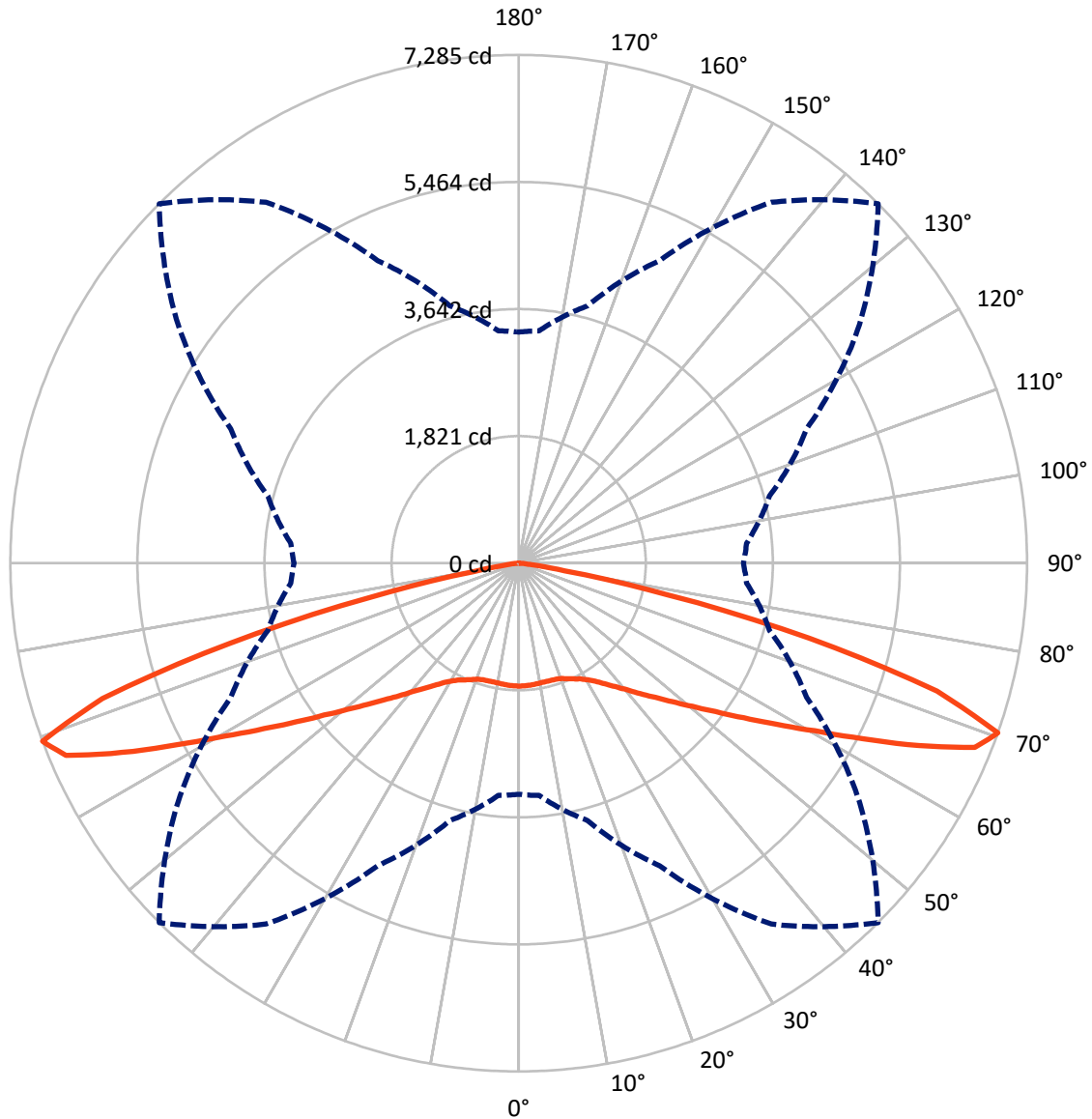
× Max cd
 - - - 1/2 Max cd



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7934.0	0.0	7934.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7934.0	0.0	7934.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	15868.0	0.0	15868.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.1	1.1
10°-20°	490.3	3.1
20°-30°	838.6	5.3
30°-40°	1331.1	8.4
40°-50°	2147.3	13.5
50°-60°	3493.8	22.0
60°-70°	5064.7	31.9
70°-80°	2246.5	14.2
80°-90°	88.6	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°	15868.0	100.0
0°-180°	15868.0	100.0



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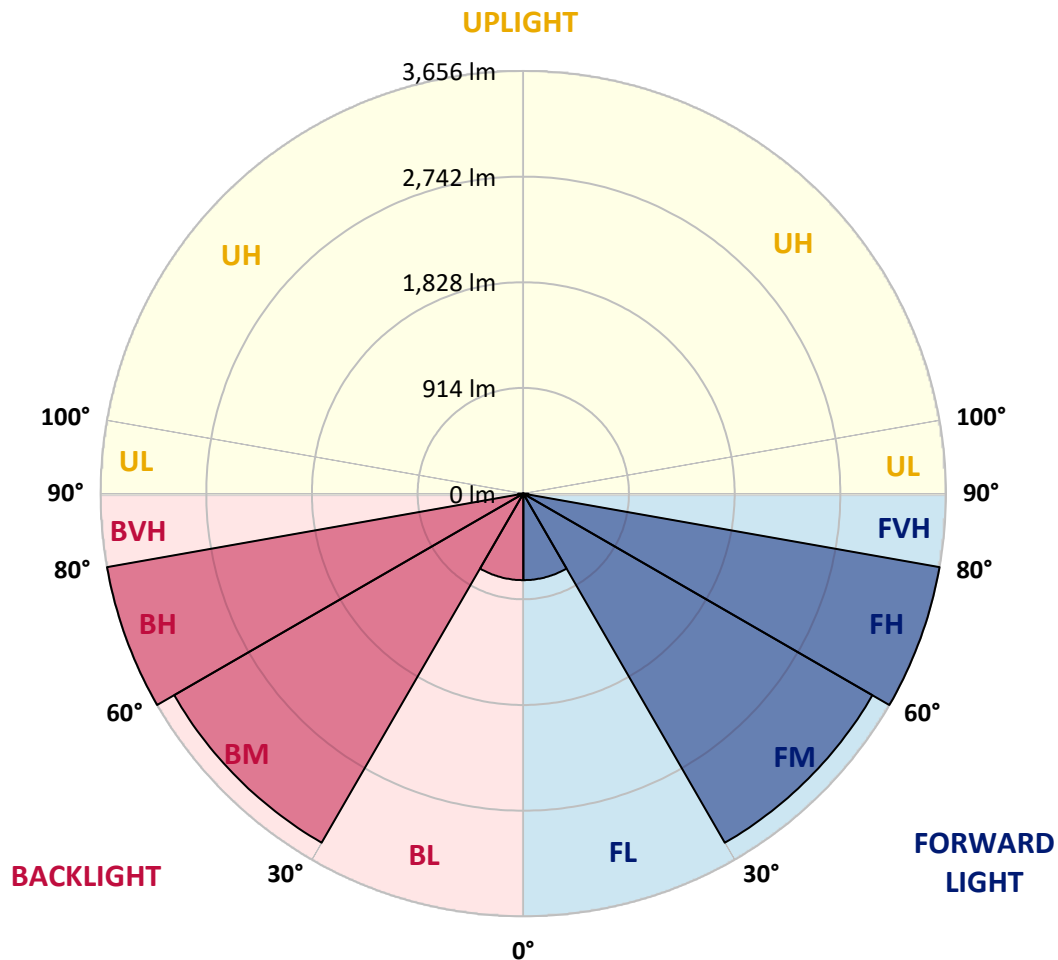
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	748.0	4.7			
FM (30°-60°)	3486.1	22.0			
FH (60°-80°)	3655.6	23.0			G2/5000
FVH (80°-90°)	44.3	0.3			G1/100
BL (0°-30°)	748.0	4.7	B2/1000		
BM (30°-60°)	3486.1	22.0	B3/5000		
BH (60°-80°)	3655.6	23.0	B4/5000		G2/5000
BVH (80°-90°)	44.3	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°	1762.1	1762.1	1762.1	1762.1	1762.1	1762.1	1762.1	1762.1	1762.1	1762.1	1762.1
2.5°	1762.1	1763.7	1761.2	1759.6	1758.7	1758.7	1757.9	1758.7	1763.7	1764.6	1762.1
5°	1757.0	1758.7	1757.9	1756.2	1755.4	1755.4	1754.5	1753.7	1757.9	1759.6	1758.7
7.5°	1750.4	1751.2	1750.4	1749.5	1750.4	1749.5	1747.0	1745.3	1748.7	1748.7	1747.8
10°	1738.7	1740.3	1739.5	1740.3	1742.0	1742.0	1738.7	1735.3	1736.1	1734.5	1734.5
12.5°	1724.4	1726.9	1727.8	1731.1	1735.3	1740.3	1732.8	1725.3	1723.6	1722.8	1721.9
15°	1715.2	1717.7	1721.1	1724.4	1732.0	1742.8	1732.0	1720.3	1716.9	1713.6	1711.9
17.5°	1712.7	1716.1	1721.1	1726.1	1736.1	1747.0	1737.8	1726.1	1717.7	1712.7	1711.1
20°	1719.4	1721.9	1729.5	1738.7	1752.9	1763.7	1754.5	1742.0	1729.5	1721.9	1719.4
22.5°	1732.8	1737.0	1746.2	1762.9	1783.0	1798.9	1786.3	1765.4	1745.3	1735.3	1732.0
25°	1762.1	1765.4	1776.3	1798.9	1822.3	1837.3	1824.0	1799.7	1772.1	1758.7	1754.5
27.5°	1806.4	1811.4	1823.1	1849.9	1869.1	1877.5	1868.3	1851.5	1831.5	1817.3	1813.9
30°	1869.1	1875.0	1892.5	1921.0	1933.5	1938.5	1934.3	1923.5	1909.3	1894.2	1890.9
32.5°	1953.6	1956.9	1977.0	2003.8	2015.5	2017.1	2012.1	2007.1	1983.7	1958.6	1956.9
35°	2048.1	2053.9	2078.2	2110.0	2120.8	2121.7	2111.6	2104.1	2076.5	2056.4	2056.4
37.5°	2173.5	2176.0	2199.4	2235.4	2247.1	2243.8	2238.8	2232.1	2202.8	2176.9	2177.7
40°	2320.7	2325.7	2345.8	2387.6	2387.6	2383.4	2386.8	2381.8	2352.5	2327.4	2328.2
42.5°	2495.5	2498.0	2522.3	2566.6	2563.2	2554.9	2558.2	2551.5	2533.1	2504.7	2494.7
45°	2682.0	2692.0	2733.8	2776.5	2769.8	2743.0	2756.4	2754.7	2738.0	2695.4	2697.9
47.5°	2906.9	2923.7	2963.8	3014.8	3007.3	2965.5	2980.5	2990.6	2967.2	2920.3	2912.0
50°	3160.3	3171.2	3230.6	3278.3	3271.6	3227.2	3261.5	3263.2	3204.7	3138.6	3138.6
52.5°	3430.5	3441.3	3521.6	3596.1	3600.2	3535.8	3563.4	3561.8	3466.4	3379.5	3362.7
55°	3733.2	3738.2	3841.9	3951.5	3974.9	3912.2	3915.5	3882.1	3758.3	3657.1	3647.9
57.5°	4046.0	4064.4	4178.9	4321.1	4390.5	4352.1	4334.5	4245.0	4125.4	4009.2	4003.3
60°	4392.2	4393.0	4541.9	4710.0	4850.5	4876.4	4804.5	4684.9	4530.2	4376.3	4369.6
62.5°	4632.2	4668.2	4856.3	5140.7	5392.4	5537.9	5348.1	5097.2	4792.8	4544.4	4519.3
65°	4681.6	4705.8	4992.7	5474.4	5988.7	6302.3	5863.2	5329.7	4810.3	4479.2	4462.5
67.5°	4282.6	4308.6	4694.9	5434.2	6406.8	7049.9	6197.8	5217.6	4512.6	4102.8	4070.2
70°	3312.6	3341.8	3819.3	4783.6	6314.0	7284.9	5959.4	4551.1	3721.5	3279.1	3219.7
72.5°	1761.2	1869.1	2277.2	3283.3	5124.8	6272.2	4886.5	3320.9	2400.2	1961.9	1883.3
75°	643.1	656.5	884.0	1456.0	2981.4	4301.0	3096.0	1583.9	910.7	703.3	667.4
77.5°	265.9	265.1	291.0	439.9	1083.0	2202.8	1208.4	465.0	290.2	268.4	265.1
80°	157.2	157.2	173.1	183.1	285.2	664.9	318.6	207.4	173.9	158.9	161.4
82.5°	70.2	74.4	109.6	115.4	138.0	182.3	153.9	132.1	113.7	78.6	71.1
85°	38.5	33.5	57.7	60.2	66.1	67.7	72.8	71.9	66.1	38.5	39.3
87.5°	7.5	9.2	16.7	12.5	14.2	12.5	16.7	23.4	24.3	13.4	10.9
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)