

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: P452278

Luminaire Tested: **GALN-SA3B-727-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452278
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-727-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 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: 14899 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

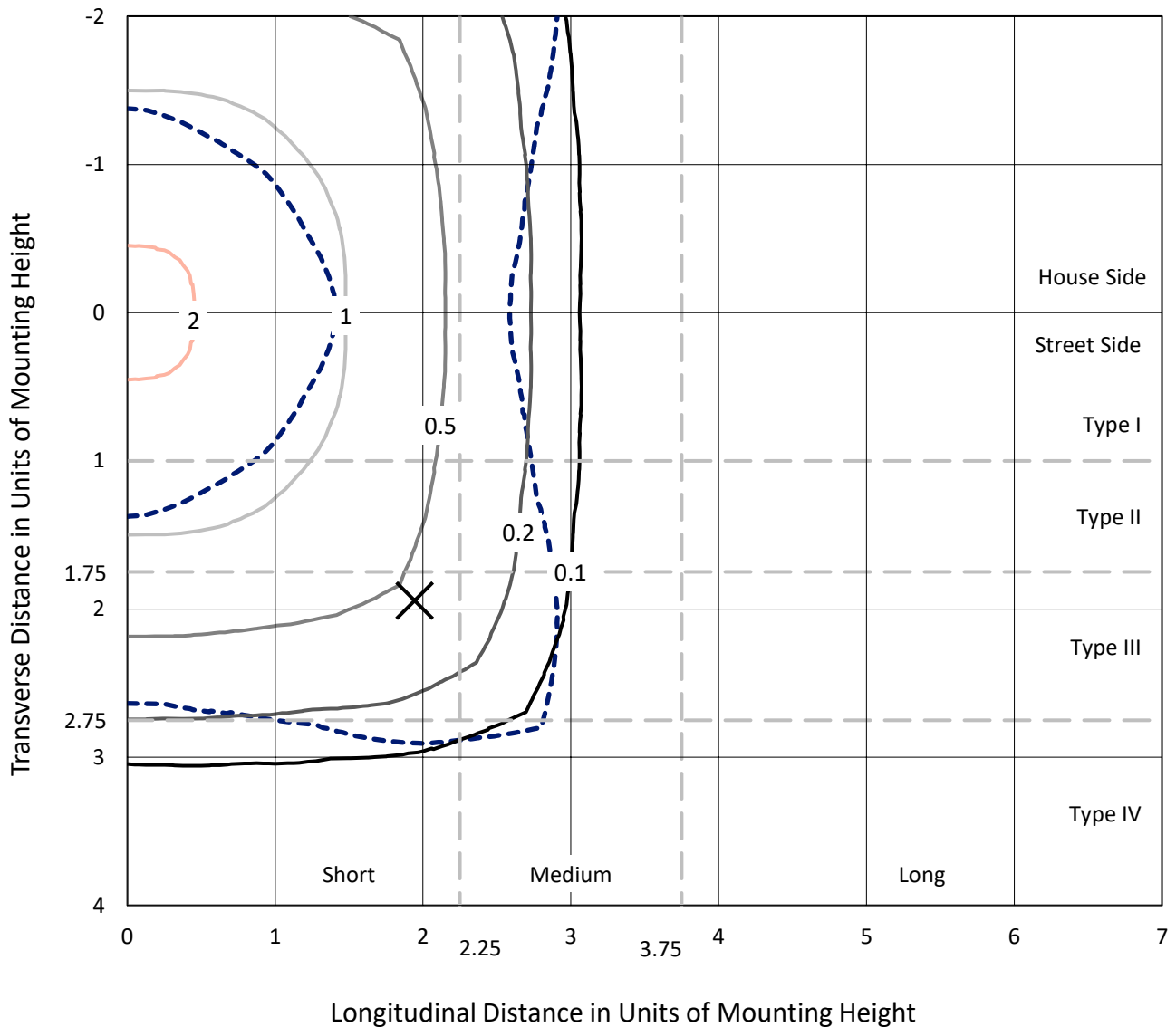
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

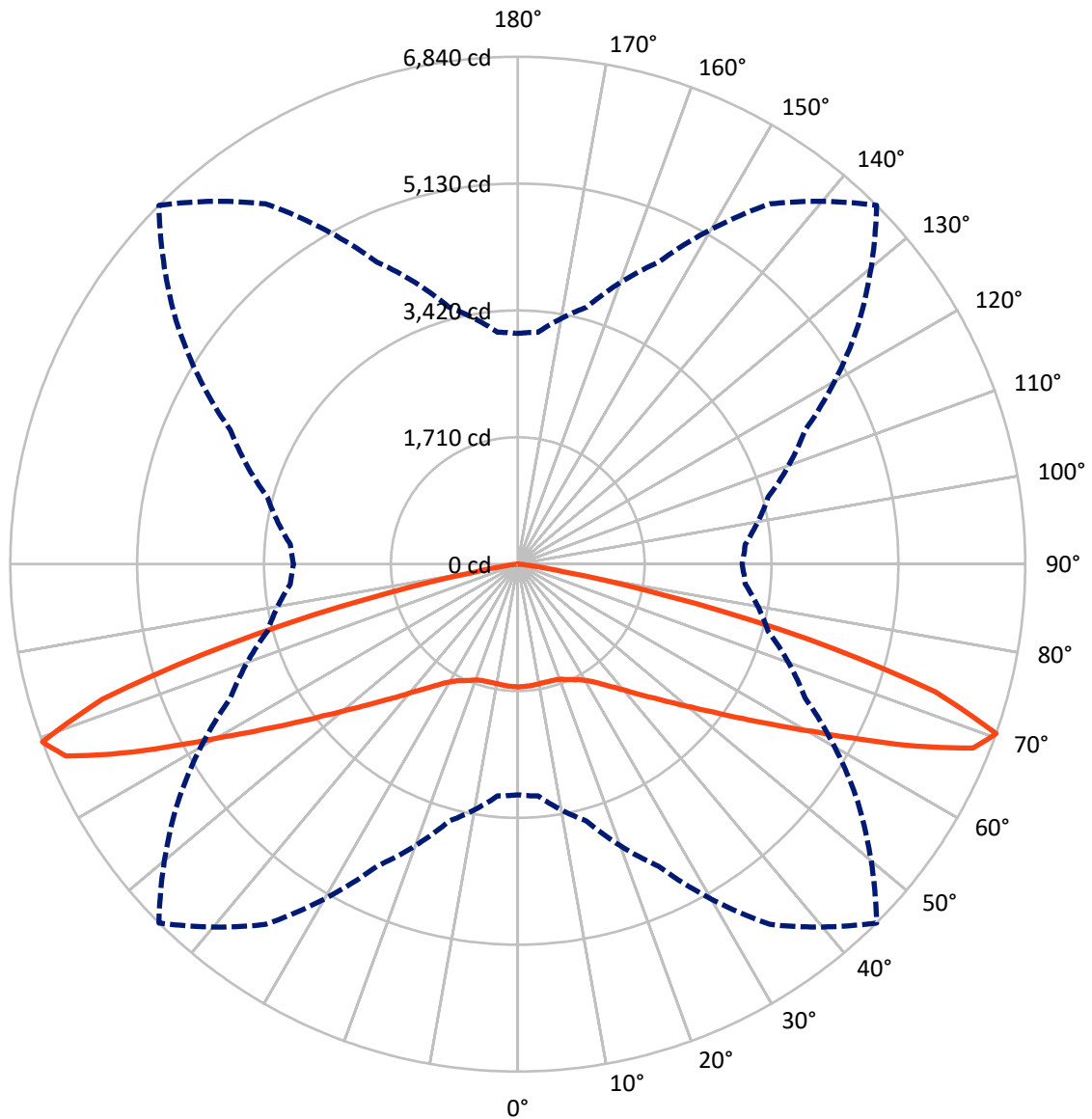
× Max cd
 - - - 1/2 Max cd



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

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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	7449.5	0.0	7449.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7449.5	0.0	7449.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	14899.0	0.0	14899.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.9	1.1
10°-20°	460.4	3.1
20°-30°	787.4	5.3
30°-40°	1249.8	8.4
40°-50°	2016.2	13.5
50°-60°	3280.4	22.0
60°-70°	4755.4	31.9
70°-80°	2109.3	14.2
80°-90°	83.2	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°	14899.0	100.0
0°-180°	14899.0	100.0



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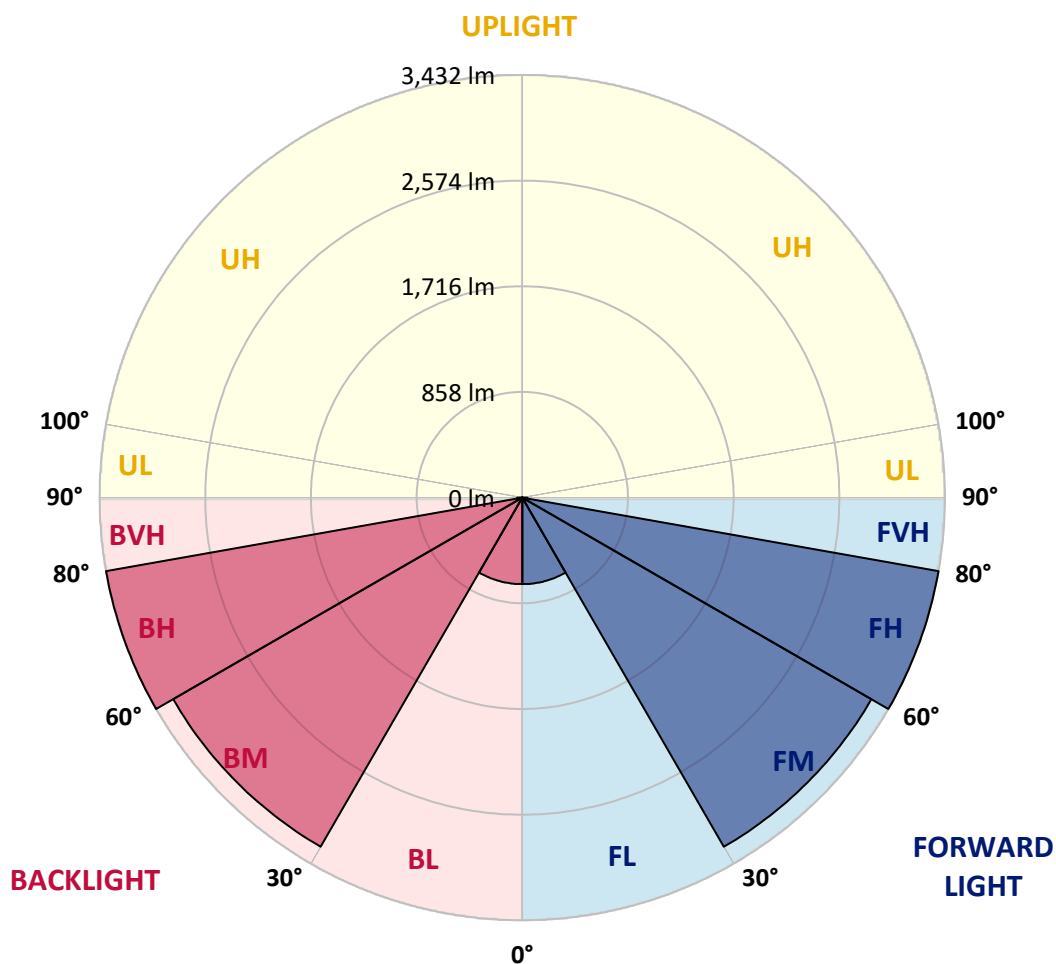
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	702.3	4.7			
FM	(30°-60°)	3273.2	22.0			
FH	(60°-80°)	3432.4	23.0			G2/5000
FVH	(80°-90°)	41.6	0.3			G1/100
BL	(0°-30°)	702.3	4.7	B2/1000		
BM	(30°-60°)	3273.2	22.0	B3/5000		
BH	(60°-80°)	3432.4	23.0	B4/5000		G2/5000
BVH	(80°-90°)	41.6	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°	1654.5	1654.5	1654.5	1654.5	1654.5	1654.5	1654.5	1654.5	1654.5	1654.5	1654.5
2.5°	1654.5	1656.0	1653.7	1652.1	1651.3	1651.3	1650.5	1651.3	1656.0	1656.8	1654.5
5°	1649.8	1651.3	1650.5	1649.0	1648.2	1648.2	1647.4	1646.6	1650.5	1652.1	1651.3
7.5°	1643.5	1644.3	1643.5	1642.7	1643.5	1642.7	1640.3	1638.8	1641.9	1641.9	1641.1
10°	1632.5	1634.0	1633.3	1634.0	1635.6	1635.6	1632.5	1629.3	1630.1	1628.6	1628.6
12.5°	1619.1	1621.5	1622.3	1625.4	1629.3	1634.0	1627.0	1619.9	1618.3	1617.6	1616.8
15°	1610.5	1612.8	1616.0	1619.1	1626.2	1636.4	1626.2	1615.2	1612.1	1608.9	1607.4
17.5°	1608.1	1611.3	1616.0	1620.7	1630.1	1640.3	1631.7	1620.7	1612.8	1608.1	1606.6
20°	1614.4	1616.8	1623.8	1632.5	1645.8	1656.0	1647.4	1635.6	1623.8	1616.8	1614.4
22.5°	1627.0	1630.9	1639.5	1655.2	1674.1	1689.0	1677.2	1657.6	1638.8	1629.3	1626.2
25°	1654.5	1657.6	1667.8	1689.0	1711.0	1725.1	1712.6	1689.8	1663.9	1651.3	1647.4
27.5°	1696.1	1700.8	1711.8	1736.9	1755.0	1762.8	1754.2	1738.5	1719.6	1706.3	1703.1
30°	1755.0	1760.5	1777.0	1803.7	1815.4	1820.1	1816.2	1806.0	1792.7	1778.5	1775.4
32.5°	1834.3	1837.4	1856.3	1881.4	1892.4	1894.0	1889.2	1884.5	1862.5	1839.0	1837.4
35°	1923.0	1928.5	1951.3	1981.1	1991.3	1992.1	1982.7	1975.6	1949.7	1930.9	1930.9
37.5°	2040.8	2043.1	2065.1	2098.9	2109.9	2106.8	2102.0	2095.8	2068.3	2043.9	2044.7
40°	2179.0	2183.7	2202.5	2241.8	2241.8	2237.9	2241.0	2236.3	2208.8	2185.3	2186.1
42.5°	2343.1	2345.5	2368.2	2409.8	2406.7	2398.9	2402.0	2395.7	2378.4	2351.7	2342.3
45°	2518.2	2527.6	2566.9	2606.9	2600.7	2575.5	2588.1	2586.5	2570.8	2530.8	2533.1
47.5°	2729.4	2745.1	2782.8	2830.7	2823.7	2784.4	2798.5	2808.0	2786.0	2742.0	2734.1
50°	2967.4	2977.6	3033.3	3078.1	3071.8	3030.2	3062.4	3063.9	3009.0	2946.9	2946.9
52.5°	3221.0	3231.2	3306.6	3376.5	3380.4	3319.9	3345.8	3344.3	3254.7	3173.1	3157.4
55°	3505.2	3509.9	3607.3	3710.2	3732.2	3673.3	3676.4	3645.0	3528.8	3433.8	3425.1
57.5°	3798.9	3816.2	3923.8	4057.2	4122.4	4086.3	4069.8	3985.8	3873.5	3764.4	3758.9
60°	4124.0	4124.8	4264.5	4422.4	4554.3	4578.6	4511.1	4398.8	4253.6	4109.1	4102.8
62.5°	4349.3	4383.1	4559.8	4826.8	5063.1	5199.7	5021.5	4785.9	4500.1	4266.9	4243.3
65°	4395.7	4418.4	4687.8	5140.1	5623.0	5917.4	5505.2	5004.2	4516.6	4205.7	4189.9
67.5°	4021.1	4045.5	4408.2	5102.4	6015.6	6619.4	5819.3	4899.0	4237.1	3852.3	3821.7
70°	3110.3	3137.7	3586.1	4491.5	5928.4	6840.1	5595.5	4273.2	3494.2	3078.9	3023.1
72.5°	1653.7	1755.0	2138.2	3082.8	4811.8	5889.2	4588.1	3118.1	2253.6	1842.1	1768.3
75°	603.8	616.4	830.0	1367.1	2799.3	4038.4	2906.9	1487.2	855.1	660.4	626.6
77.5°	249.7	248.9	273.3	413.0	1016.9	2068.3	1134.6	436.6	272.5	252.1	248.9
80°	147.6	147.6	162.5	172.0	267.8	624.3	299.2	194.7	163.3	149.2	151.5
82.5°	66.0	69.9	102.9	108.4	129.6	171.2	144.5	124.1	106.8	73.8	66.7
85°	36.1	31.4	54.2	56.5	62.0	63.6	68.3	67.5	62.0	36.1	36.9
87.5°	7.1	8.6	15.7	11.8	13.3	11.8	15.7	22.0	22.8	12.6	10.2
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)