

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: P453208

Luminaire Tested: **GALN-SA4B-727-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453208
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-SA4B-727-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19703 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

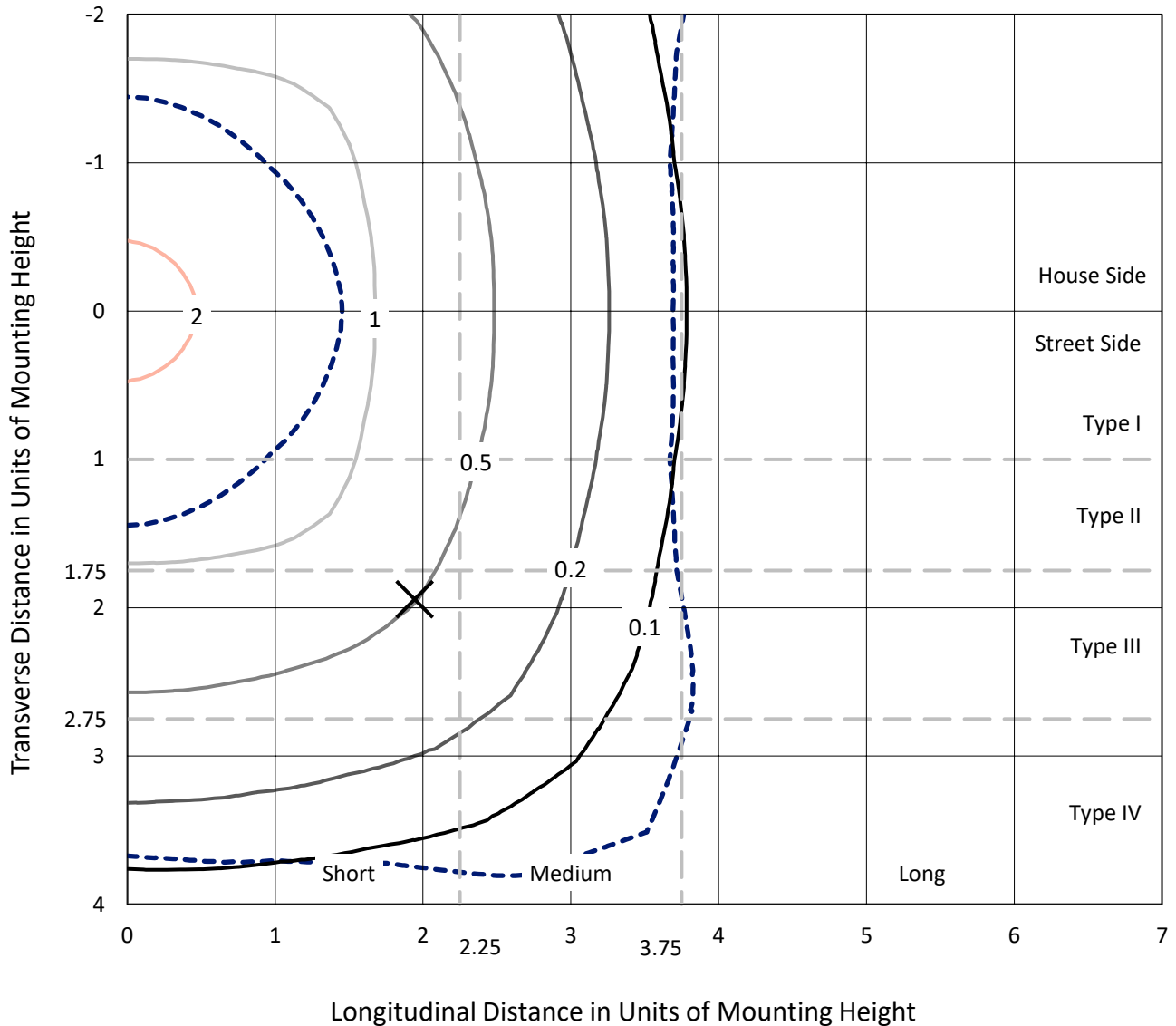
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P453208
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Iso-Footcandle Lines of Horizontal Illumination

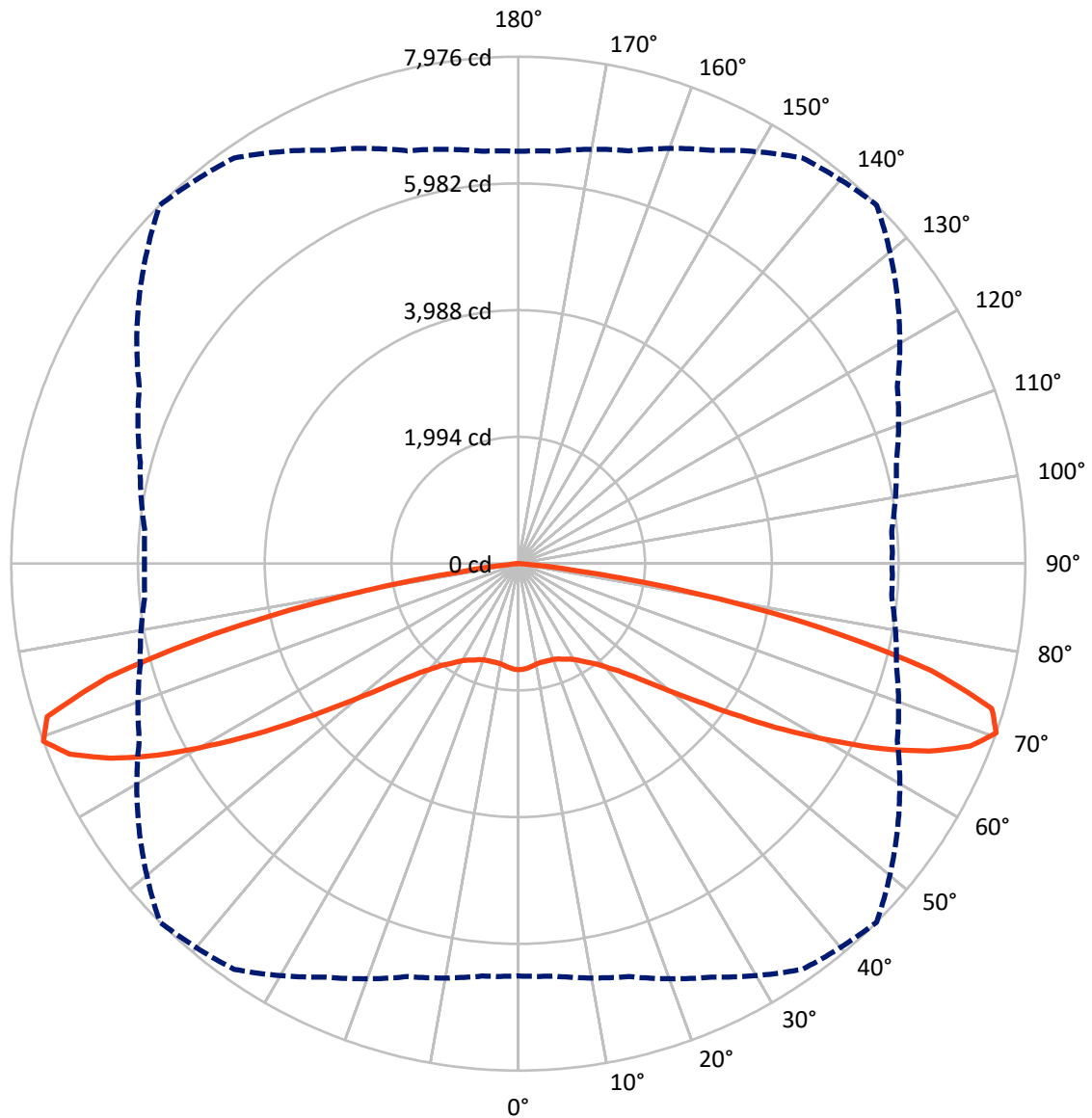
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type V - Short - N/A

REPORT NUMBER: P453208
CATALOG NUMBER: GALN-SA4B-727-U-5WQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P453208

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9851.5	0.0	9851.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9851.5	0.0	9851.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	19703.0	0.0	19703.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.0	0.8
10°-20°	456.7	2.3
20°-30°	778.1	3.9
30°-40°	1206.0	6.1
40°-50°	2030.0	10.3
50°-60°	3693.4	18.7
60°-70°	6252.8	31.7
70°-80°	4839.9	24.6
80°-90°	290.0	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°	19703.0	100.0
0°-180°	19703.0	100.0



REPORT NUMBER: P453208

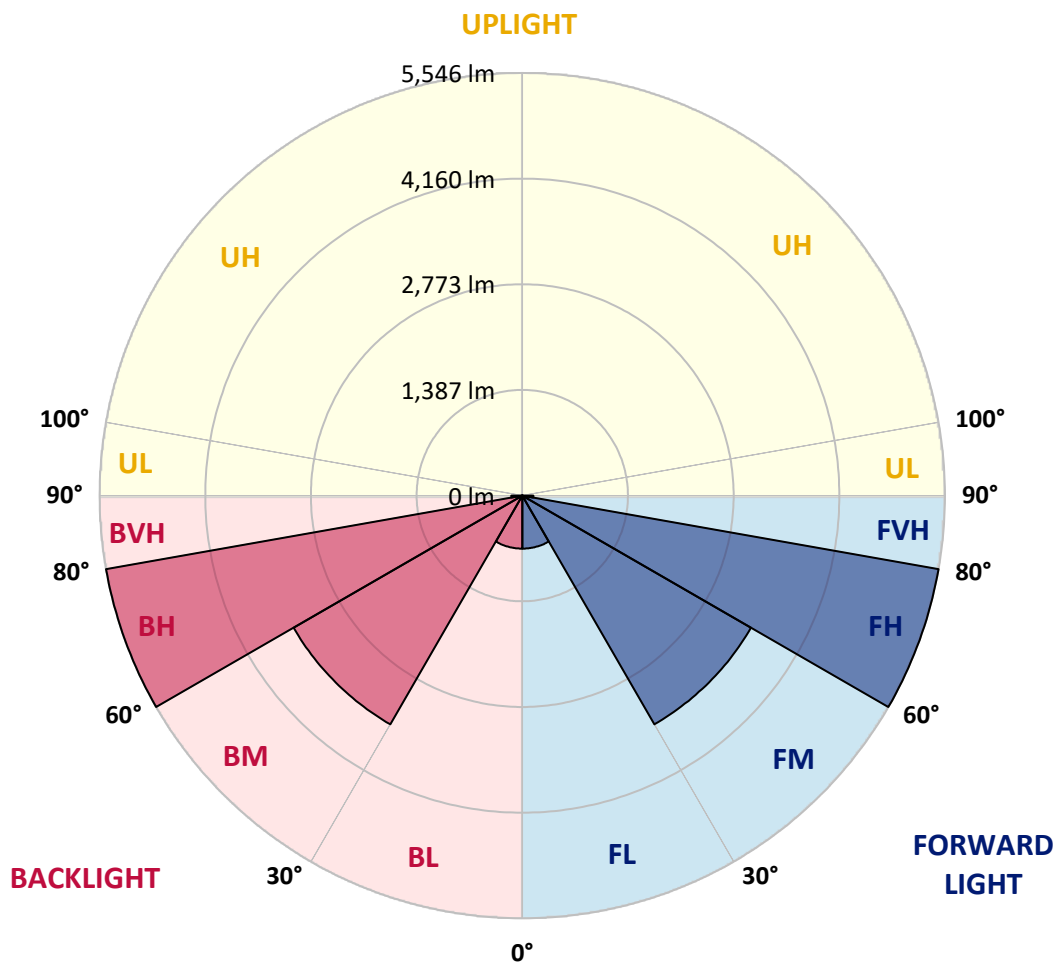
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	695.4	3.5			
FM (30°-60°)	3464.7	17.6			
FH (60°-80°)	5546.4	28.1			G3/7500
FVH (80°-90°)	145.0	0.7			G2/225
BL (0°-30°)	695.4	3.5	B2/1000		
BM (30°-60°)	3464.7	17.6	B3/5000		
BH (60°-80°)	5546.4	28.1	B5		G3/7500
BVH (80°-90°)	145.0	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0 / <td></td> <td>U0/0</td> <td></td>		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1668.1	1668.1	1668.1	1668.1	1668.1	1668.1	1668.1	1668.1	1668.1	1668.1	1668.1
2.5°	1663.9	1665.0	1665.0	1662.9	1661.9	1661.9	1660.8	1660.8	1663.9	1665.0	1666.0
5°	1649.4	1649.4	1649.4	1648.3	1646.2	1646.2	1644.2	1644.2	1645.2	1648.3	1646.2
7.5°	1629.6	1631.7	1631.7	1627.5	1624.4	1624.4	1623.4	1624.4	1625.4	1628.6	1627.5
10°	1623.4	1624.4	1619.2	1611.9	1606.7	1603.6	1604.6	1606.7	1611.9	1614.0	1615.0
12.5°	1627.5	1627.5	1618.2	1607.7	1598.4	1594.2	1593.2	1600.5	1609.8	1616.1	1618.2
15°	1632.7	1630.6	1619.2	1605.7	1596.3	1595.3	1594.2	1599.4	1612.9	1625.4	1626.5
17.5°	1635.8	1634.8	1620.2	1603.6	1598.4	1598.4	1597.3	1601.5	1616.1	1631.7	1632.7
20°	1646.2	1643.1	1626.5	1608.8	1604.6	1606.7	1603.6	1608.8	1624.4	1643.1	1647.3
22.5°	1667.1	1663.9	1647.3	1629.6	1627.5	1627.5	1626.5	1631.7	1648.3	1668.1	1671.2
25°	1692.0	1688.9	1673.3	1660.8	1662.9	1667.1	1665.0	1666.0	1679.5	1696.2	1701.4
27.5°	1725.3	1720.1	1706.6	1696.2	1702.4	1702.4	1702.4	1701.4	1709.7	1725.3	1730.5
30°	1765.9	1763.8	1749.3	1748.2	1753.4	1748.2	1748.2	1749.3	1750.3	1764.9	1770.1
32.5°	1819.0	1814.8	1807.5	1805.5	1820.0	1824.2	1809.6	1796.1	1803.4	1817.9	1821.1
35°	1906.4	1900.2	1889.8	1878.3	1889.8	1909.5	1878.3	1867.9	1886.6	1906.4	1908.5
37.5°	2025.0	2021.9	2005.3	1984.4	1983.4	2004.2	1972.0	1970.9	2006.3	2030.2	2033.4
40°	2173.8	2177.0	2156.1	2136.4	2126.0	2142.6	2117.6	2127.0	2161.4	2188.4	2186.3
42.5°	2383.0	2371.6	2339.3	2320.6	2309.1	2302.9	2296.6	2311.2	2349.7	2378.8	2401.7
45°	2627.5	2623.4	2582.8	2559.9	2534.9	2525.6	2523.5	2549.5	2596.3	2631.7	2634.8
47.5°	2904.3	2895.0	2869.0	2845.0	2835.7	2824.2	2813.8	2833.6	2880.4	2905.4	2912.7
50°	3189.5	3191.6	3191.6	3187.4	3196.8	3198.8	3170.7	3178.0	3204.0	3202.0	3199.9
52.5°	3515.2	3526.6	3580.7	3585.9	3630.7	3660.9	3609.9	3579.7	3570.3	3514.1	3518.3
55°	3898.1	3908.5	3989.7	4070.9	4191.6	4242.6	4135.4	4041.7	3975.1	3889.8	3894.0
57.5°	4375.8	4381.0	4458.0	4614.1	4805.5	4925.2	4736.9	4551.6	4416.4	4335.2	4302.9
60°	4889.8	4895.0	5007.4	5197.9	5495.5	5641.2	5408.1	5105.2	4934.6	4810.7	4819.1
62.5°	5506.9	5527.7	5628.7	5890.9	6252.0	6415.4	6106.3	5701.5	5470.5	5316.5	5322.7
65°	6167.7	6203.1	6313.4	6601.6	6934.6	7110.5	6731.7	6264.5	5977.3	5788.9	5808.7
67.5°	6596.4	6627.7	6786.9	7105.3	7520.5	7666.2	7177.1	6632.9	6273.8	6049.1	6007.5
70°	6487.2	6513.2	6725.5	7177.1	7792.1	7976.3	7283.2	6578.7	6156.3	5897.1	5880.5
72.5°	5726.5	5672.4	5982.5	6630.8	7482.0	7791.1	6949.2	6008.5	5476.7	5210.3	5179.1
75°	3795.1	3912.7	4370.6	5134.4	6330.0	6713.0	5931.5	4824.3	4155.2	3933.5	3899.2
77.5°	1268.5	1359.0	1765.9	2910.6	4315.4	4890.9	4321.7	3155.1	2232.1	1798.2	1806.5
80°	336.1	332.0	429.8	800.2	1864.8	2832.5	2170.7	1068.7	584.8	423.5	401.7
82.5°	120.7	135.3	173.8	221.7	494.3	880.4	621.2	299.7	219.6	162.3	157.1
85°	53.1	52.0	74.9	88.5	123.8	164.4	145.7	127.0	111.3	73.9	68.7
87.5°	11.4	11.4	17.7	13.5	21.9	21.9	27.1	32.3	33.3	21.9	17.7
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)