

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: P453904

Luminaire Tested: **GALN-SA5A-727-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453904
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-SA5A-727-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20046 lumens
Efficiency: N/A
Efficacy: 130.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

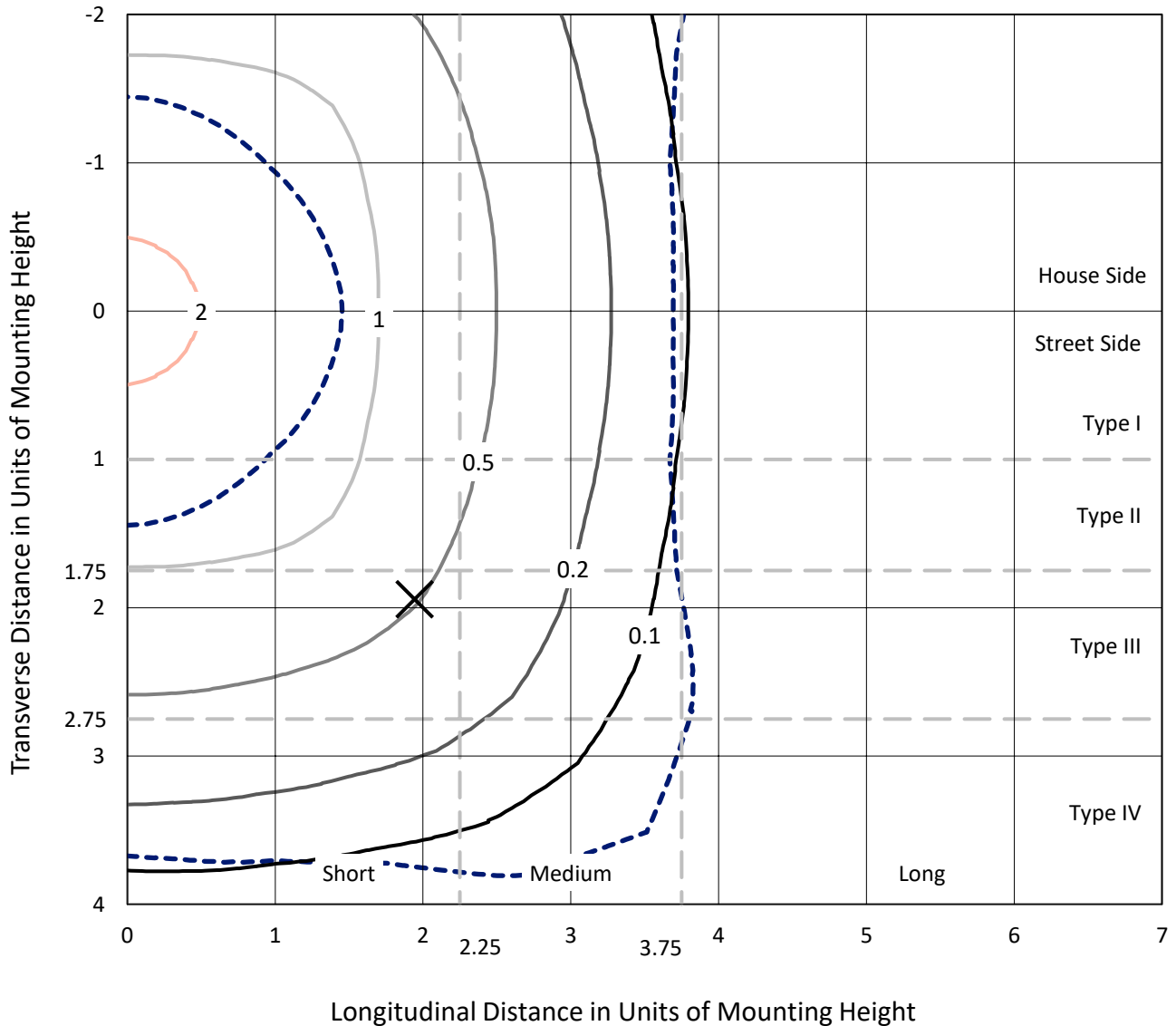
Input Watts (W): 154
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

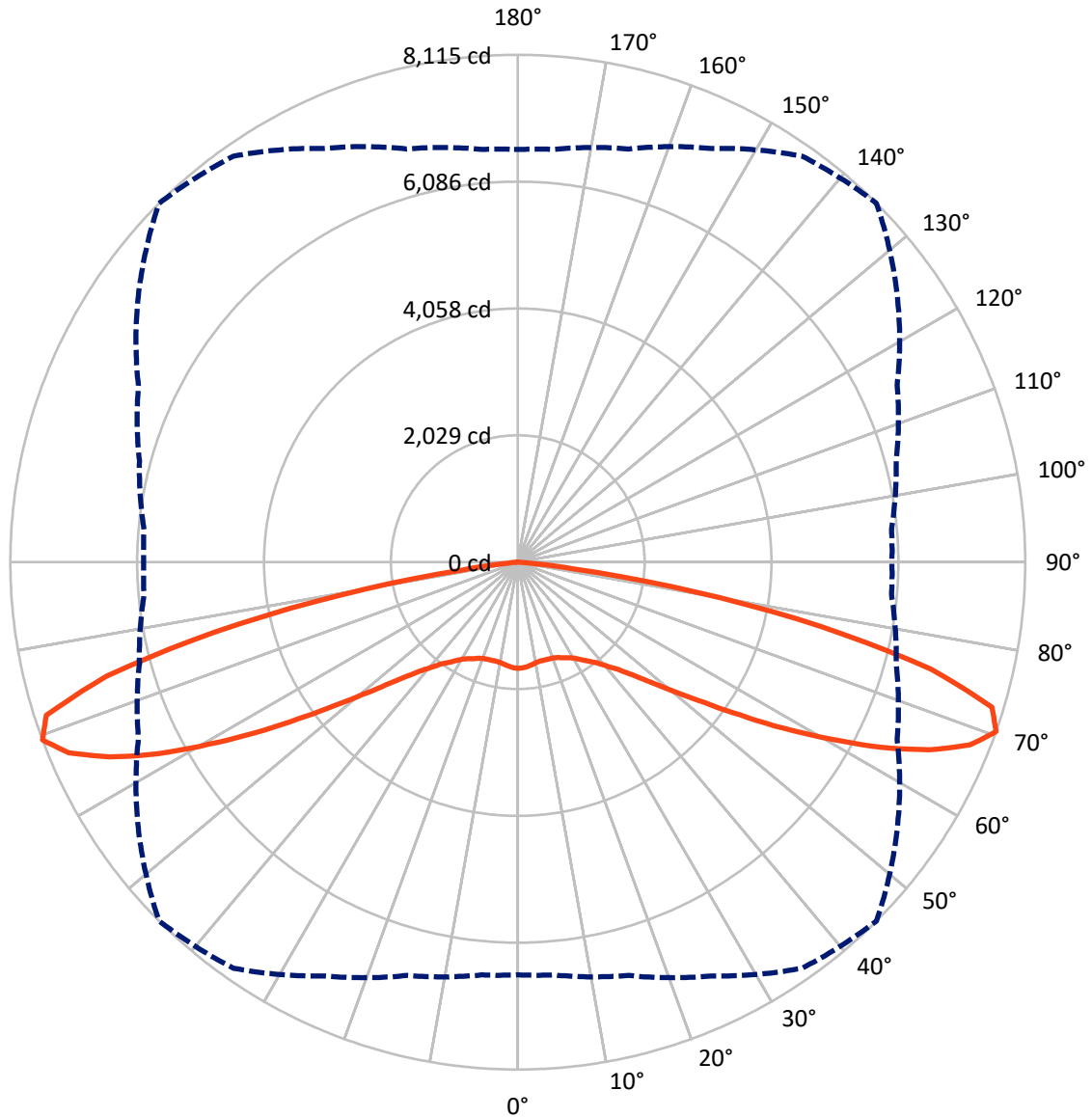
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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	10023.0	0.0	10023.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10023.0	0.0	10023.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	20046.0	0.0	20046.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.7	0.8
10°-20°	464.6	2.3
20°-30°	791.6	3.9
30°-40°	1227.0	6.1
40°-50°	2065.3	10.3
50°-60°	3757.7	18.7
60°-70°	6361.7	31.7
70°-80°	4924.2	24.6
80°-90°	295.1	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°	20046.0	100.0
0°-180°	20046.0	100.0



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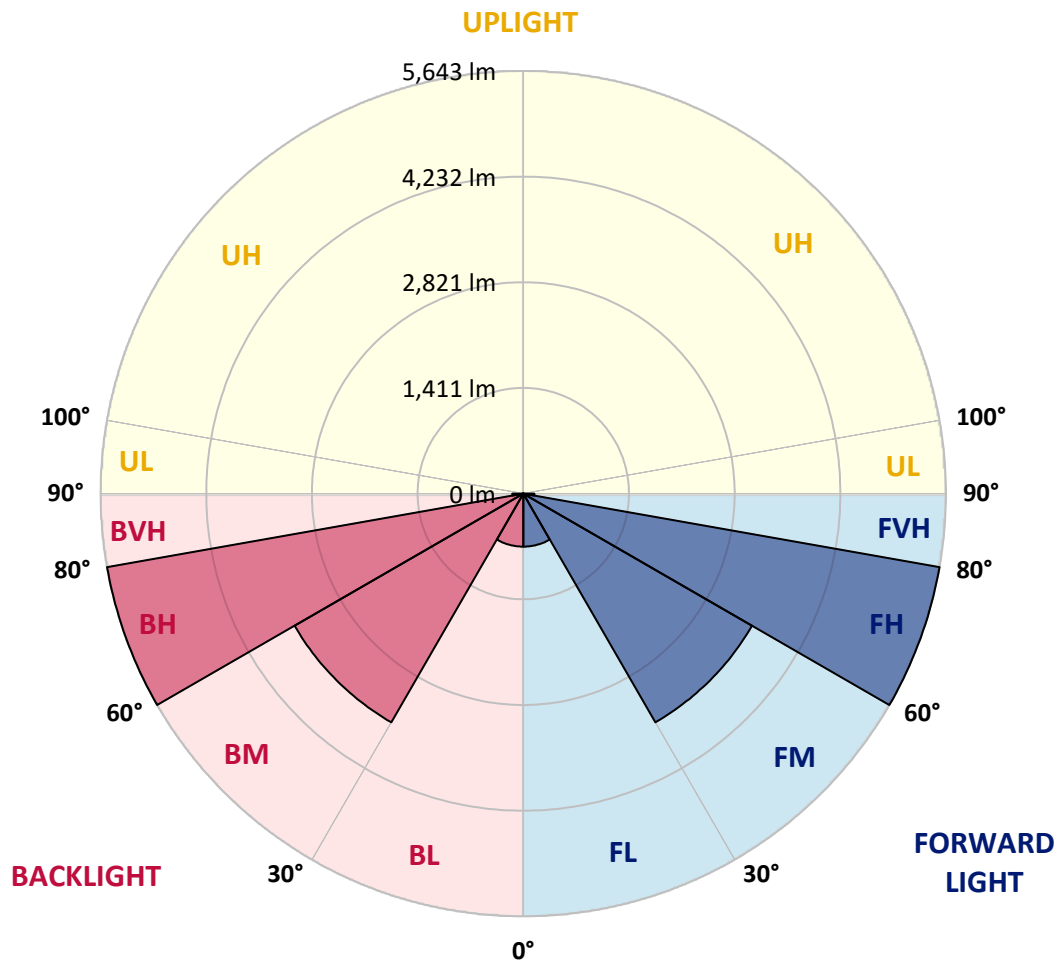
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	707.5	3.5			
FM (30°-60°)	3525.0	17.6			
FH (60°-80°)	5642.9	28.1			G3/7500
FVH (80°-90°)	147.5	0.7			G2/225
BL (0°-30°)	707.5	3.5	B2/1000		
BM (30°-60°)	3525.0	17.6	B3/5000		
BH (60°-80°)	5642.9	28.1	B5		G3/7500
BVH (80°-90°)	147.5	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		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°	1697.1	1697.1	1697.1	1697.1	1697.1	1697.1	1697.1	1697.1	1697.1	1697.1	1697.1
2.5°	1692.9	1694.0	1694.0	1691.8	1690.8	1690.8	1689.7	1689.7	1692.9	1694.0	1695.0
5°	1678.1	1678.1	1678.1	1677.0	1674.9	1674.9	1672.8	1672.8	1673.8	1677.0	1674.9
7.5°	1658.0	1660.1	1660.1	1655.8	1652.7	1652.7	1651.6	1652.7	1653.7	1656.9	1655.8
10°	1651.6	1652.7	1647.4	1640.0	1634.7	1631.5	1632.6	1634.7	1640.0	1642.1	1643.1
12.5°	1655.8	1655.8	1646.3	1635.7	1626.2	1622.0	1620.9	1628.3	1637.9	1644.2	1646.3
15°	1661.1	1659.0	1647.4	1633.6	1624.1	1623.0	1622.0	1627.3	1641.0	1653.7	1654.8
17.5°	1664.3	1663.3	1648.4	1631.5	1626.2	1626.2	1625.1	1629.4	1644.2	1660.1	1661.1
20°	1674.9	1671.7	1654.8	1636.8	1632.6	1634.7	1631.5	1636.8	1652.7	1671.7	1676.0
22.5°	1696.1	1692.9	1676.0	1658.0	1655.8	1655.8	1654.8	1660.1	1677.0	1697.1	1700.3
25°	1721.5	1718.3	1702.4	1689.7	1691.8	1696.1	1694.0	1695.0	1708.8	1725.7	1731.0
27.5°	1755.4	1750.1	1736.3	1725.7	1732.1	1732.1	1732.1	1731.0	1739.5	1755.4	1760.7
30°	1796.7	1794.5	1779.7	1778.7	1784.0	1778.7	1778.7	1779.7	1780.8	1795.6	1800.9
32.5°	1850.7	1846.4	1839.0	1836.9	1851.7	1855.9	1841.1	1827.4	1834.8	1849.6	1852.8
35°	1939.6	1933.2	1922.6	1911.0	1922.6	1942.8	1911.0	1900.4	1919.5	1939.6	1941.7
37.5°	2060.3	2057.1	2040.2	2019.0	2017.9	2039.1	2006.3	2005.2	2041.2	2065.6	2068.8
40°	2211.7	2214.9	2193.7	2173.6	2163.0	2179.9	2154.5	2164.0	2199.0	2226.5	2224.4
42.5°	2424.5	2412.8	2380.0	2361.0	2349.3	2343.0	2336.6	2351.4	2390.6	2420.2	2443.5
45°	2673.3	2669.1	2627.8	2604.5	2579.1	2569.5	2567.4	2593.9	2641.5	2677.5	2680.7
47.5°	2954.9	2945.4	2918.9	2894.6	2885.0	2873.4	2862.8	2882.9	2930.6	2956.0	2963.4
50°	3245.0	3247.1	3247.1	3242.9	3252.4	3254.5	3225.9	3233.4	3259.8	3257.7	3255.6
52.5°	3576.4	3588.0	3643.1	3648.4	3693.9	3724.6	3672.7	3642.0	3632.5	3575.3	3579.6
55°	3966.0	3976.6	4059.2	4141.7	4264.6	4316.4	4207.4	4112.1	4044.3	3957.5	3961.8
57.5°	4451.9	4457.2	4535.6	4694.4	4889.2	5011.0	4819.3	4630.9	4493.2	4410.7	4377.8
60°	4975.0	4980.3	5094.6	5288.3	5591.1	5739.4	5502.2	5194.1	5020.5	4894.5	4903.0
62.5°	5602.8	5624.0	5726.7	5993.5	6360.8	6527.1	6212.6	5800.8	5565.7	5409.0	5415.4
65°	6275.1	6311.1	6423.3	6716.6	7055.4	7234.3	6848.9	6373.5	6081.3	5889.7	5909.8
67.5°	6711.3	6743.0	6905.0	7229.0	7651.4	7799.6	7302.0	6748.3	6383.1	6154.4	6112.0
70°	6600.1	6626.6	6842.6	7302.0	7927.7	8115.1	7410.0	6693.3	6263.4	5999.8	5982.9
72.5°	5826.2	5771.1	6086.6	6746.2	7612.2	7926.7	7070.2	6113.1	5572.1	5301.0	5269.3
75°	3861.2	3980.8	4446.7	5223.8	6440.2	6829.8	6034.7	4908.3	4227.5	4002.0	3967.1
77.5°	1290.6	1382.7	1796.7	2961.3	4390.5	4976.0	4396.9	3210.1	2271.0	1829.5	1838.0
80°	342.0	337.7	437.3	814.2	1897.2	2881.9	2208.5	1087.3	595.0	430.9	408.7
82.5°	122.8	137.6	176.8	225.5	502.9	895.7	632.1	304.9	223.4	165.2	159.9
85°	54.0	52.9	76.2	90.0	126.0	167.3	148.2	129.2	113.3	75.2	69.9
87.5°	11.6	11.6	18.0	13.8	22.2	22.2	27.5	32.8	33.9	22.2	18.0
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)