

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: P452744

Luminaire Tested: **GALN-SA3D-727-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452744
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-SA3D-727-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20213 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

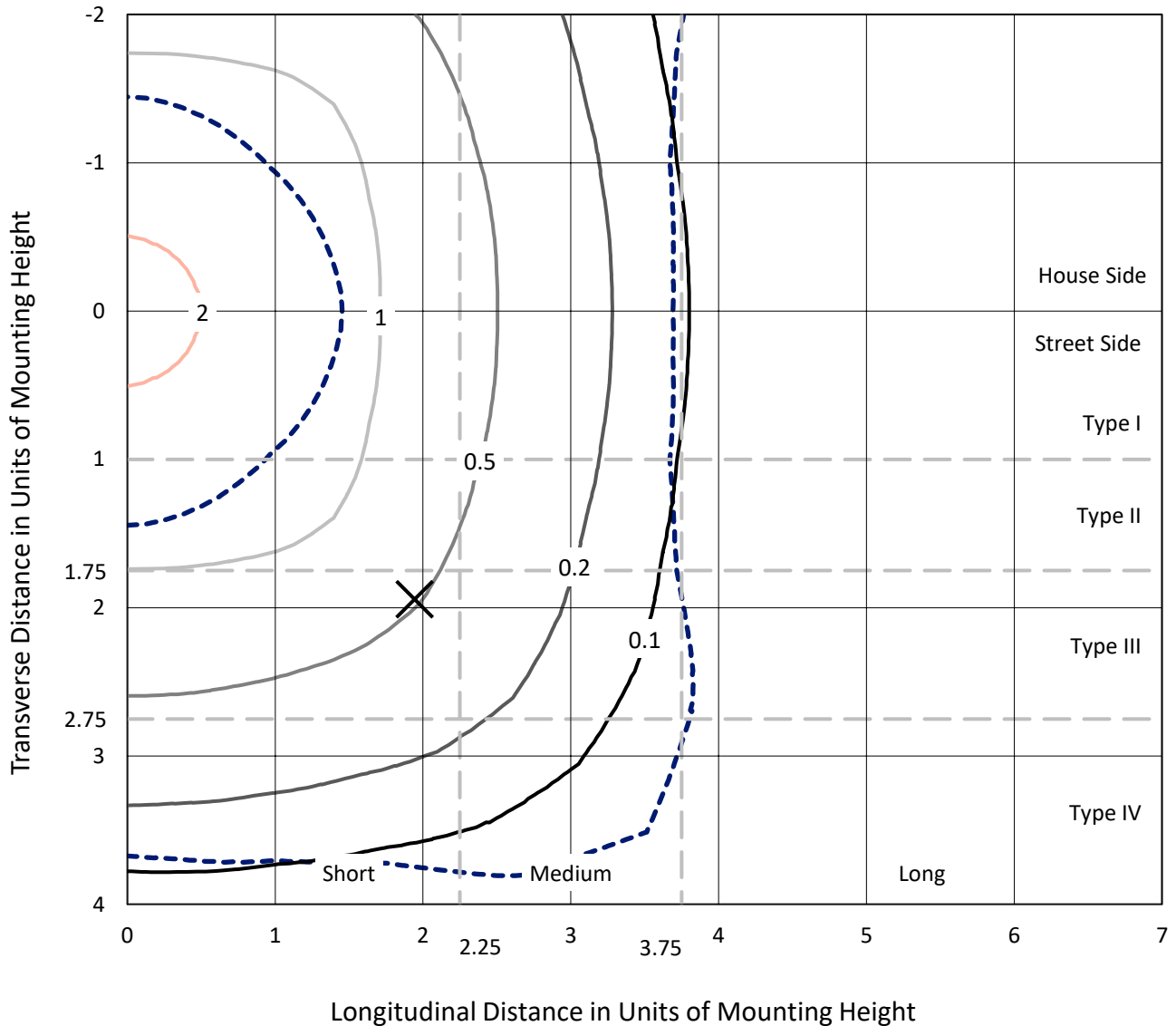
Input Watts (W): 184
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

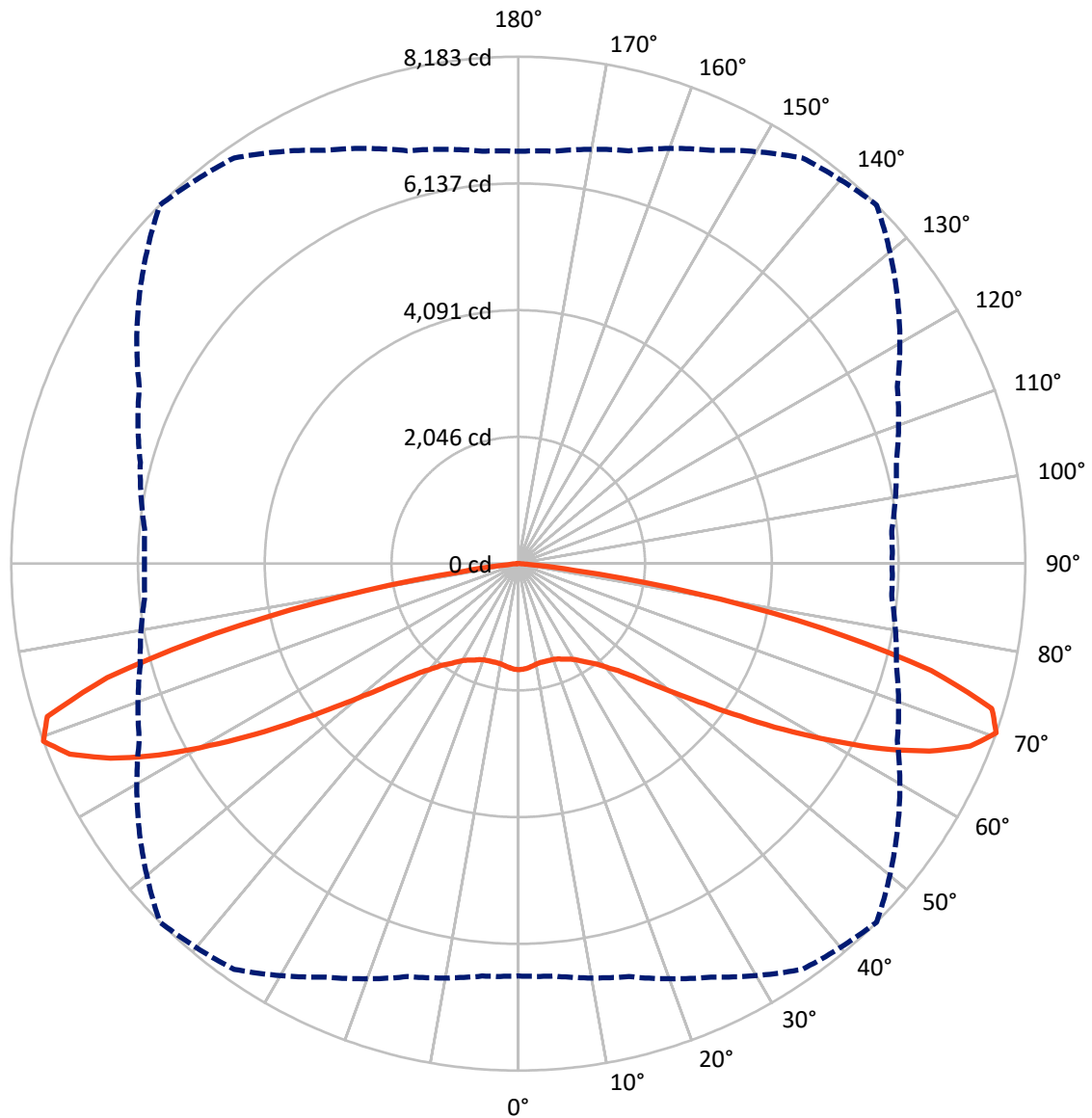
× Max cd
 - - - 1/2 Max cd



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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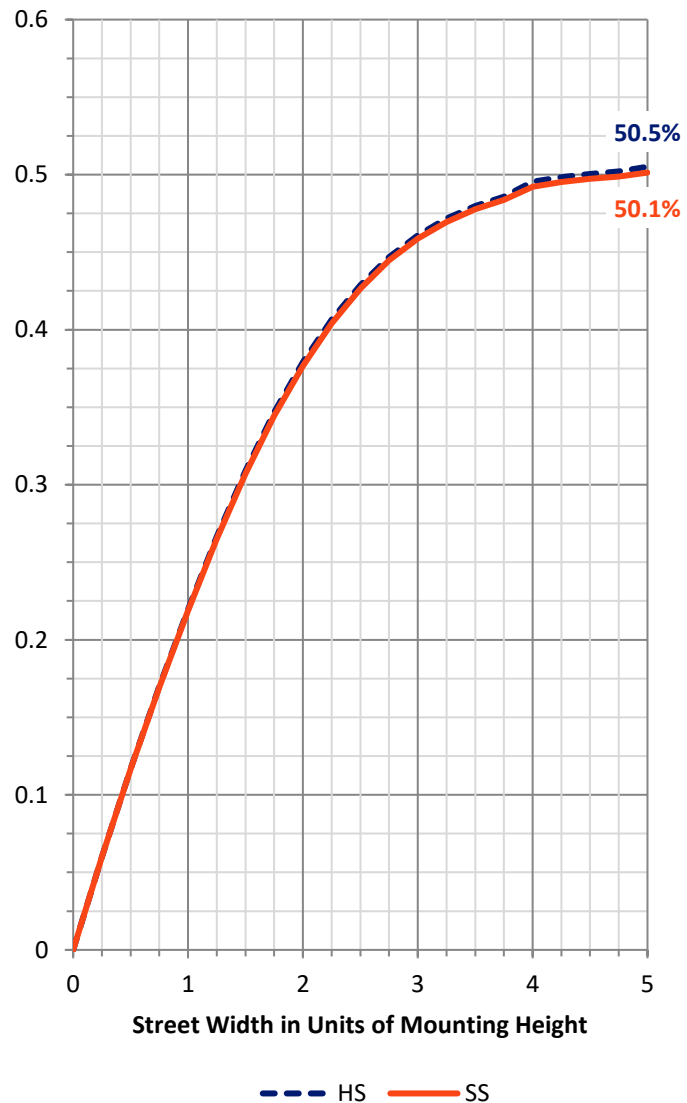
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10106.5	0.0	10106.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10106.5	0.0	10106.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	20213.0	0.0	20213.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.0	0.8
10°-20°	468.5	2.3
20°-30°	798.2	3.9
30°-40°	1237.3	6.1
40°-50°	2082.5	10.3
50°-60°	3789.0	18.7
60°-70°	6414.7	31.7
70°-80°	4965.2	24.6
80°-90°	297.5	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°	20213.0	100.0
0°-180°	20213.0	100.0



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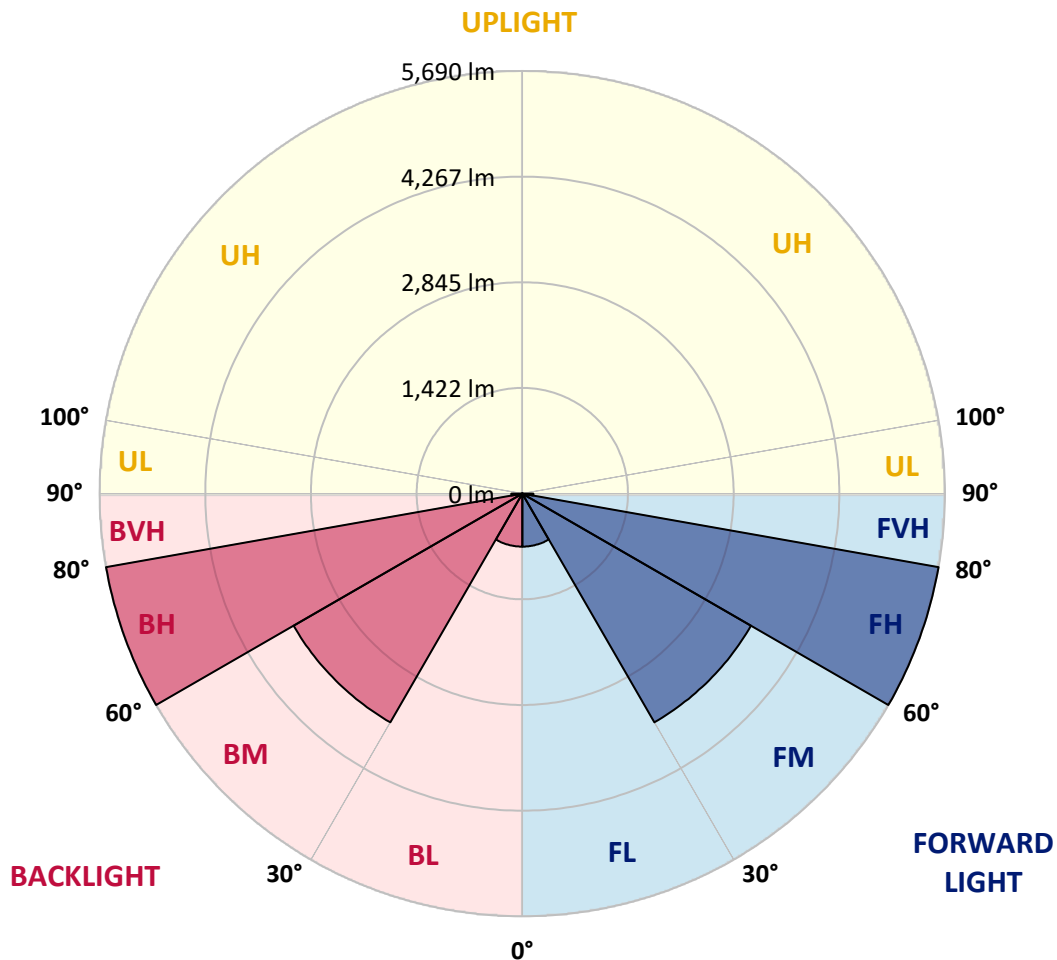
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	713.4	3.5			
FM (30°-60°)	3554.4	17.6			
FH (60°-80°)	5690.0	28.1			G3/7500
FVH (80°-90°)	148.8	0.7			G2/225
BL (0°-30°)	713.4	3.5	B2/1000		
BM (30°-60°)	3554.4	17.6	B3/5000		
BH (60°-80°)	5690.0	28.1	B5		G3/7500
BVH (80°-90°)	148.8	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°	1711.3	1711.3	1711.3	1711.3	1711.3	1711.3	1711.3	1711.3	1711.3	1711.3	1711.3
2.5°	1707.0	1708.1	1708.1	1705.9	1704.9	1704.9	1703.8	1703.8	1707.0	1708.1	1709.1
5°	1692.1	1692.1	1692.1	1691.0	1688.9	1688.9	1686.7	1686.7	1687.8	1691.0	1688.9
7.5°	1671.8	1673.9	1673.9	1669.6	1666.4	1666.4	1665.4	1666.4	1667.5	1670.7	1669.6
10°	1665.4	1666.4	1661.1	1653.6	1648.3	1645.1	1646.2	1648.3	1653.6	1655.8	1656.8
12.5°	1669.6	1669.6	1660.0	1649.4	1639.8	1635.5	1634.4	1641.9	1651.5	1657.9	1660.0
15°	1675.0	1672.8	1661.1	1647.2	1637.6	1636.5	1635.5	1640.8	1654.7	1667.5	1668.6
17.5°	1678.2	1677.1	1662.2	1645.1	1639.8	1639.8	1638.7	1643.0	1657.9	1673.9	1675.0
20°	1688.9	1685.7	1668.6	1650.4	1646.2	1648.3	1645.1	1650.4	1666.4	1685.7	1689.9
22.5°	1710.2	1707.0	1689.9	1671.8	1669.6	1669.6	1668.6	1673.9	1691.0	1711.3	1714.5
25°	1735.8	1732.6	1716.6	1703.8	1705.9	1710.2	1708.1	1709.1	1723.0	1740.1	1745.4
27.5°	1770.0	1764.7	1750.8	1740.1	1746.5	1746.5	1746.5	1745.4	1754.0	1770.0	1775.3
30°	1811.6	1809.5	1794.5	1793.5	1798.8	1793.5	1793.5	1794.5	1795.6	1810.6	1815.9
32.5°	1866.1	1861.8	1854.3	1852.2	1867.1	1871.4	1856.5	1842.6	1850.1	1865.0	1868.2
35°	1955.7	1949.3	1938.7	1926.9	1938.7	1958.9	1926.9	1916.2	1935.5	1955.7	1957.9
37.5°	2077.4	2074.2	2057.2	2035.8	2034.7	2056.1	2023.0	2021.9	2058.2	2082.8	2086.0
40°	2230.1	2233.3	2212.0	2191.7	2181.0	2198.1	2172.5	2182.1	2217.3	2245.1	2242.9
42.5°	2444.7	2432.9	2399.8	2380.6	2368.9	2362.5	2356.1	2371.0	2410.5	2440.4	2463.9
45°	2695.6	2691.3	2649.7	2626.2	2600.5	2590.9	2588.8	2615.5	2663.5	2699.8	2703.0
47.5°	2979.5	2969.9	2943.2	2918.7	2909.1	2897.3	2886.6	2906.9	2955.0	2980.6	2988.1
50°	3272.0	3274.2	3274.2	3269.9	3279.5	3281.6	3252.8	3260.3	3287.0	3284.8	3282.7
52.5°	3606.2	3617.9	3673.4	3678.8	3724.7	3755.6	3703.3	3672.4	3662.8	3605.1	3609.4
55°	3999.0	4009.7	4093.0	4176.2	4300.1	4352.4	4242.4	4146.4	4078.0	3990.5	3994.8
57.5°	4489.0	4494.4	4573.4	4733.5	4929.9	5052.7	4859.5	4669.5	4530.7	4447.4	4414.3
60°	5016.4	5021.7	5137.0	5332.4	5637.7	5787.2	5548.0	5237.4	5062.3	4935.3	4943.8
62.5°	5649.5	5670.8	5774.4	6043.4	6413.8	6581.4	6264.4	5849.1	5612.1	5454.1	5460.5
65°	6327.4	6363.6	6476.8	6772.5	7114.1	7294.5	6906.0	6426.6	6132.0	5938.8	5959.0
67.5°	6767.2	6799.2	6962.5	7289.2	7715.2	7864.6	7362.9	6804.5	6436.2	6205.7	6162.9
70°	6655.1	6681.8	6899.6	7362.9	7993.8	8182.7	7471.8	6749.0	6315.6	6049.8	6032.7
72.5°	5874.7	5819.2	6137.3	6802.4	7675.7	7992.7	7129.1	6164.0	5618.5	5345.2	5313.2
75°	3893.3	4014.0	4483.7	5267.3	6493.9	6886.7	6085.0	4949.1	4262.7	4035.3	4000.1
77.5°	1301.3	1394.2	1811.6	2985.9	4427.1	5017.5	4433.5	3236.8	2289.9	1844.7	1853.3
80°	344.8	340.5	440.9	820.9	1913.0	2905.9	2226.9	1096.4	600.0	434.5	412.1
82.5°	123.8	138.8	178.3	227.4	507.1	903.1	637.3	307.5	225.3	166.5	161.2
85°	54.4	53.4	76.9	90.7	127.0	168.7	149.5	130.2	114.2	75.8	70.5
87.5°	11.7	11.7	18.1	13.9	22.4	22.4	27.8	33.1	34.2	22.4	18.1
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)