

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: P452889

Luminaire Tested: **GALN-SA3D-827-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452889
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-827-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 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: 17768 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

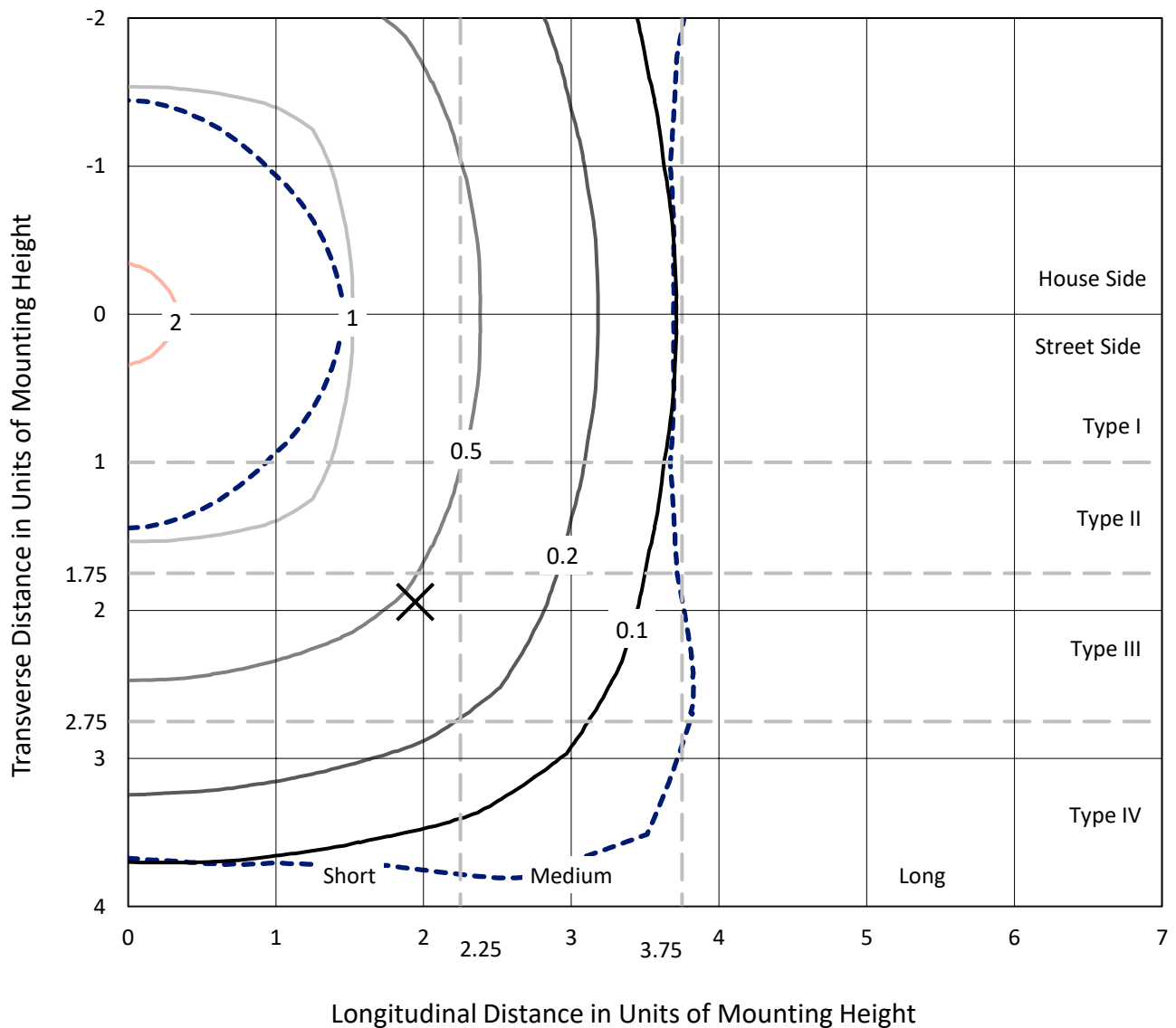
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

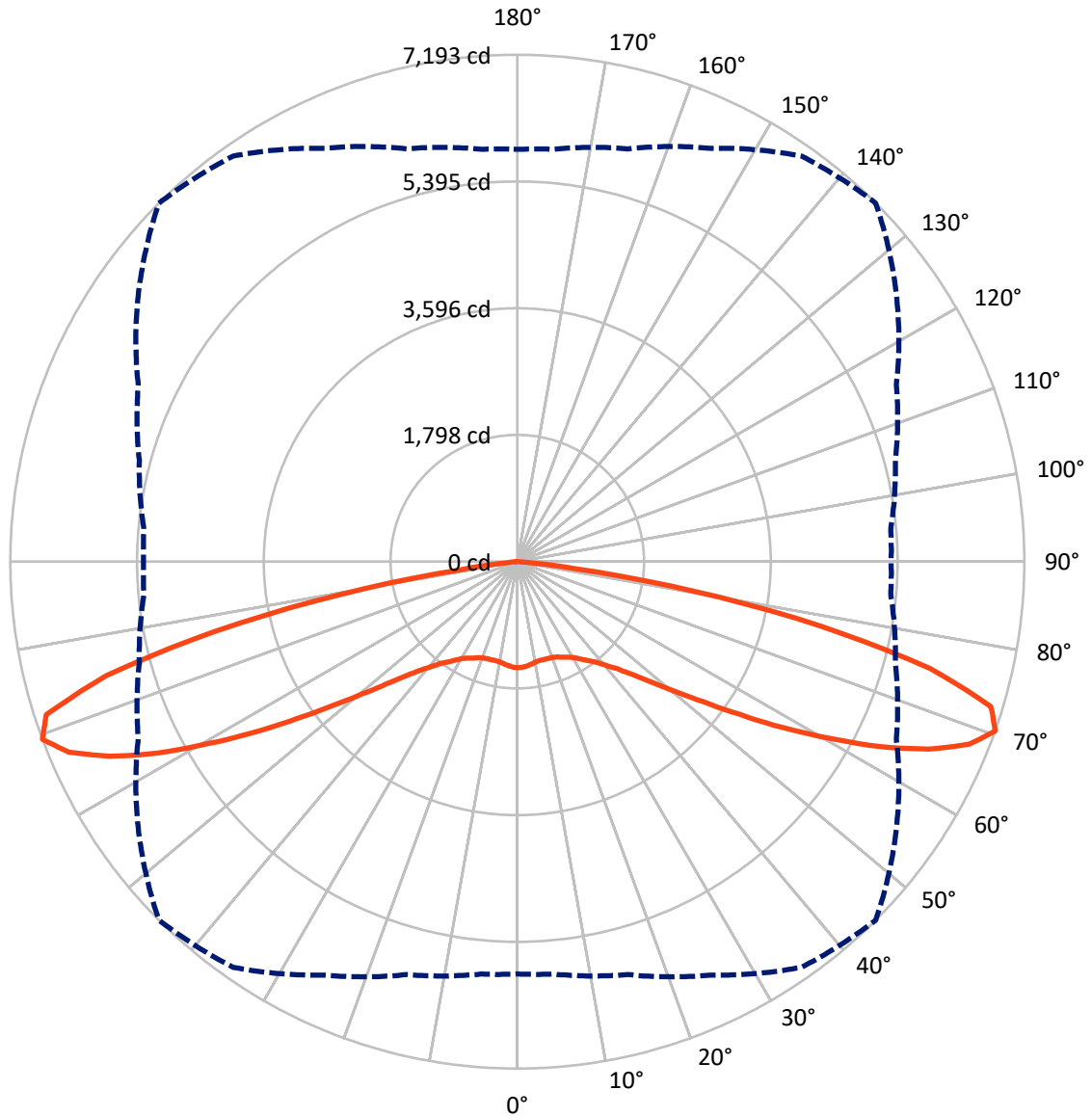
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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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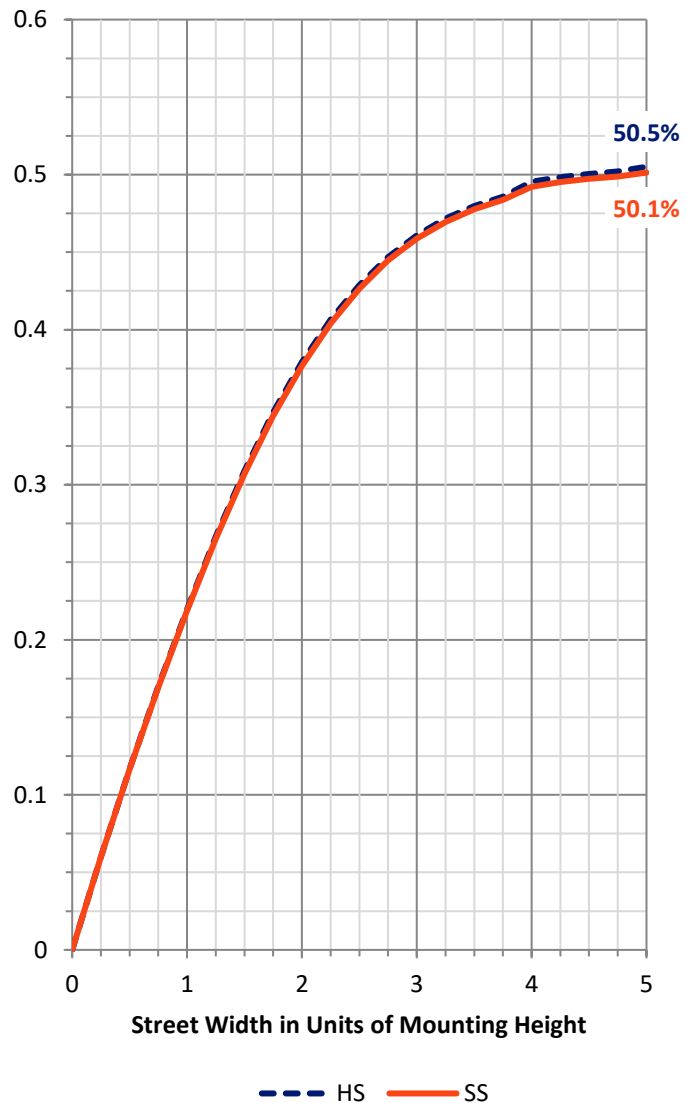
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8884.0	0.0	8884.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8884.0	0.0	8884.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	17768.0	0.0	17768.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.7	0.8
10°-20°	411.8	2.3
20°-30°	701.7	3.9
30°-40°	1087.6	6.1
40°-50°	1830.6	10.3
50°-60°	3330.7	18.7
60°-70°	5638.8	31.7
70°-80°	4364.6	24.6
80°-90°	261.5	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°	17768.0	100.0
0°-180°	17768.0	100.0



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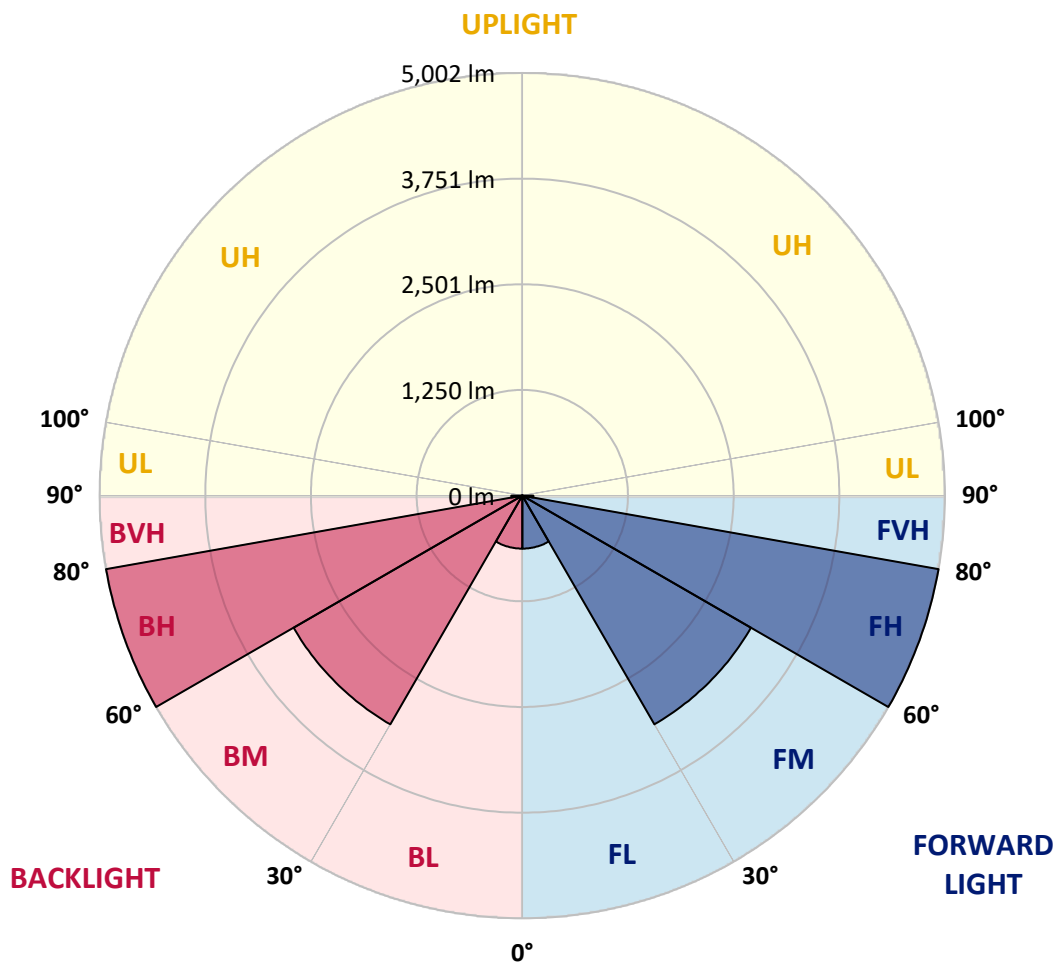
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	627.1	3.5			
FM (30°-60°)	3124.4	17.6			
FH (60°-80°)	5001.7	28.1			G3/7500
FVH (80°-90°)	130.8	0.7			G2/225
BL (0°-30°)	627.1	3.5	B2/1000		
BM (30°-60°)	3124.4	17.6	B3/5000		
BH (60°-80°)	5001.7	28.1	B5		G3/7500
BVH (80°-90°)	130.8	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°	1504.3	1504.3	1504.3	1504.3	1504.3	1504.3	1504.3	1504.3	1504.3	1504.3	1504.3
2.5°	1500.5	1501.5	1501.5	1499.6	1498.6	1498.6	1497.7	1497.7	1500.5	1501.5	1502.4
5°	1487.4	1487.4	1487.4	1486.4	1484.6	1484.6	1482.7	1482.7	1483.6	1486.4	1484.6
7.5°	1469.6	1471.4	1471.4	1467.7	1464.9	1464.9	1463.9	1464.9	1465.8	1468.6	1467.7
10°	1463.9	1464.9	1460.2	1453.6	1448.9	1446.1	1447.0	1448.9	1453.6	1455.5	1456.4
12.5°	1467.7	1467.7	1459.2	1449.9	1441.4	1437.7	1436.7	1443.3	1451.7	1457.4	1459.2
15°	1472.4	1470.5	1460.2	1448.0	1439.5	1438.6	1437.7	1442.3	1454.5	1465.8	1466.7
17.5°	1475.2	1474.2	1461.1	1446.1	1441.4	1441.4	1440.5	1444.2	1457.4	1471.4	1472.4
20°	1484.6	1481.8	1466.7	1450.8	1447.0	1448.9	1446.1	1450.8	1464.9	1481.8	1485.5
22.5°	1503.3	1500.5	1485.5	1469.6	1467.7	1467.7	1466.7	1471.4	1486.4	1504.3	1507.1
25°	1525.9	1523.0	1509.0	1497.7	1499.6	1503.3	1501.5	1502.4	1514.6	1529.6	1534.3
27.5°	1555.9	1551.2	1539.0	1529.6	1535.2	1535.2	1535.2	1534.3	1541.8	1555.9	1560.6
30°	1592.5	1590.6	1577.5	1576.5	1581.2	1576.5	1576.5	1577.5	1578.4	1591.6	1596.2
32.5°	1640.3	1636.6	1630.0	1628.1	1641.3	1645.0	1631.9	1619.7	1626.3	1639.4	1642.2
35°	1719.2	1713.5	1704.2	1693.8	1704.2	1722.0	1693.8	1684.5	1701.3	1719.2	1721.1
37.5°	1826.2	1823.3	1808.3	1789.6	1788.6	1807.4	1778.3	1777.4	1809.3	1830.8	1833.7
40°	1960.3	1963.2	1944.4	1926.6	1917.2	1932.2	1909.7	1918.1	1949.1	1973.5	1971.6
42.5°	2149.0	2138.6	2109.6	2092.7	2082.3	2076.7	2071.1	2084.2	2118.9	2145.2	2165.9
45°	2369.5	2365.7	2329.1	2308.5	2286.0	2277.5	2275.7	2299.1	2341.3	2373.3	2376.1
47.5°	2619.1	2610.7	2587.2	2565.6	2557.2	2546.9	2537.5	2555.3	2597.5	2620.1	2626.6
50°	2876.2	2878.1	2878.1	2874.4	2882.8	2884.7	2859.3	2865.9	2889.4	2887.5	2885.6
52.5°	3170.0	3180.3	3229.1	3233.8	3274.1	3301.3	3255.4	3228.1	3219.7	3169.0	3172.8
55°	3515.3	3524.7	3597.9	3671.1	3779.9	3825.9	3729.3	3644.8	3584.7	3507.8	3511.5
57.5°	3946.0	3950.7	4020.2	4160.9	4333.6	4441.5	4271.7	4104.6	3982.6	3909.4	3880.3
60°	4409.6	4414.3	4515.7	4687.4	4955.8	5087.1	4876.9	4603.9	4450.0	4338.3	4345.8
62.5°	4966.1	4984.9	5075.9	5312.4	5638.0	5785.3	5506.6	5141.6	4933.2	4794.4	4800.0
65°	5562.0	5593.9	5693.4	5953.3	6253.6	6412.2	6070.6	5649.3	5390.3	5220.4	5238.2
67.5°	5948.6	5976.8	6120.3	6407.5	6781.9	6913.3	6472.2	5981.5	5657.7	5455.0	5417.5
70°	5850.1	5873.5	6065.0	6472.2	7026.8	7192.9	6568.0	5932.7	5551.7	5318.0	5303.0
72.5°	5164.1	5115.3	5394.9	5979.6	6747.2	7025.9	6266.7	5418.4	4938.9	4698.6	4670.5
75°	3422.4	3528.4	3941.3	4630.1	5708.4	6053.7	5349.0	4350.5	3747.1	3547.2	3516.2
77.5°	1143.9	1225.6	1592.5	2624.7	3891.6	4410.5	3897.2	2845.3	2012.9	1621.6	1629.1
80°	303.1	299.4	387.6	721.6	1681.6	2554.4	1957.5	963.8	527.4	381.9	362.2
82.5°	108.9	122.0	156.7	199.9	445.7	793.9	560.2	270.3	198.0	146.4	141.7
85°	47.9	46.9	67.6	79.8	111.7	148.3	131.4	114.5	100.4	66.6	61.9
87.5°	10.3	10.3	16.0	12.2	19.7	19.7	24.4	29.1	30.0	19.7	16.0
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)