

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: STREETWORKS

Report Number: P316097

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316097
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-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: 20866 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

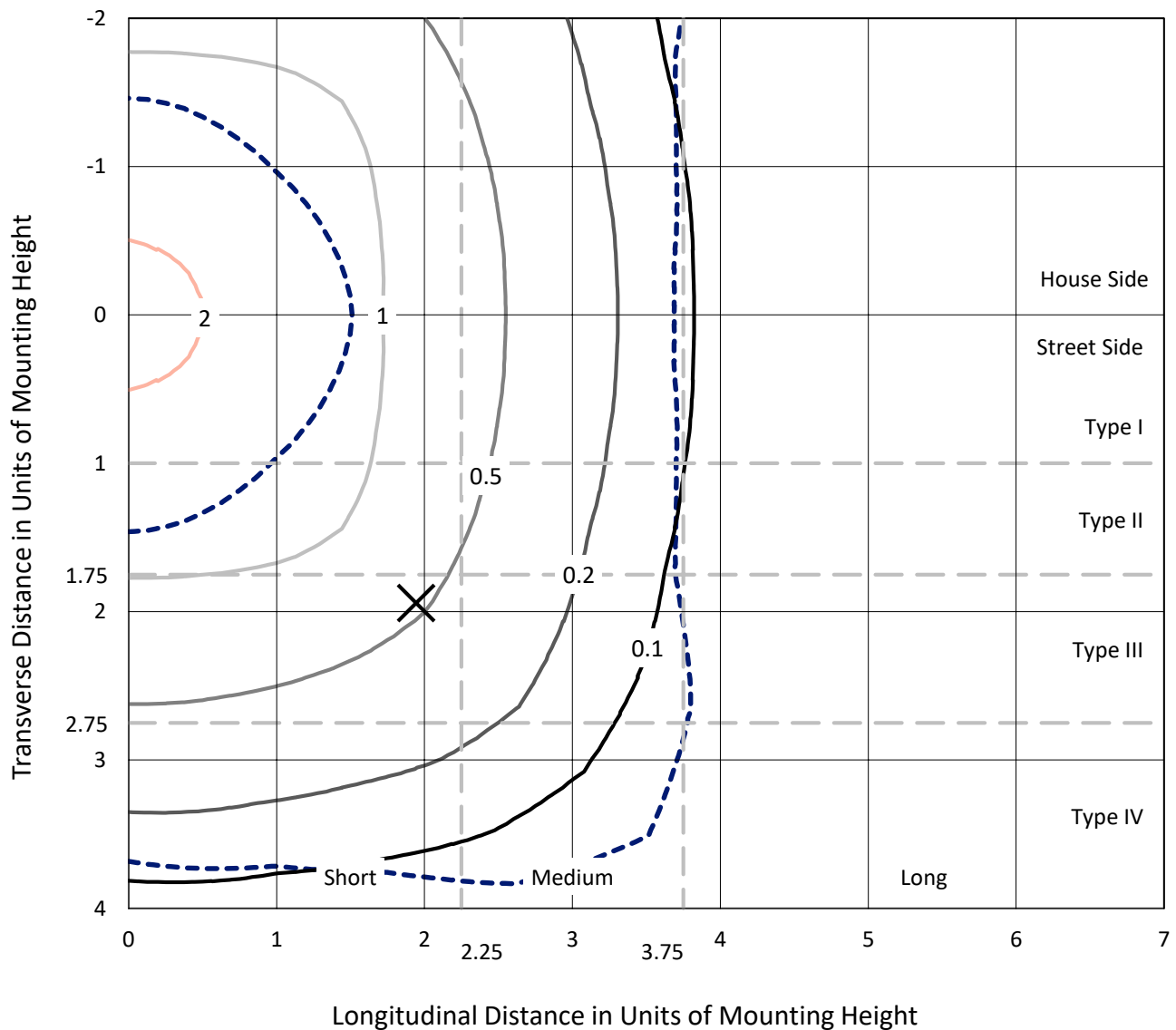
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

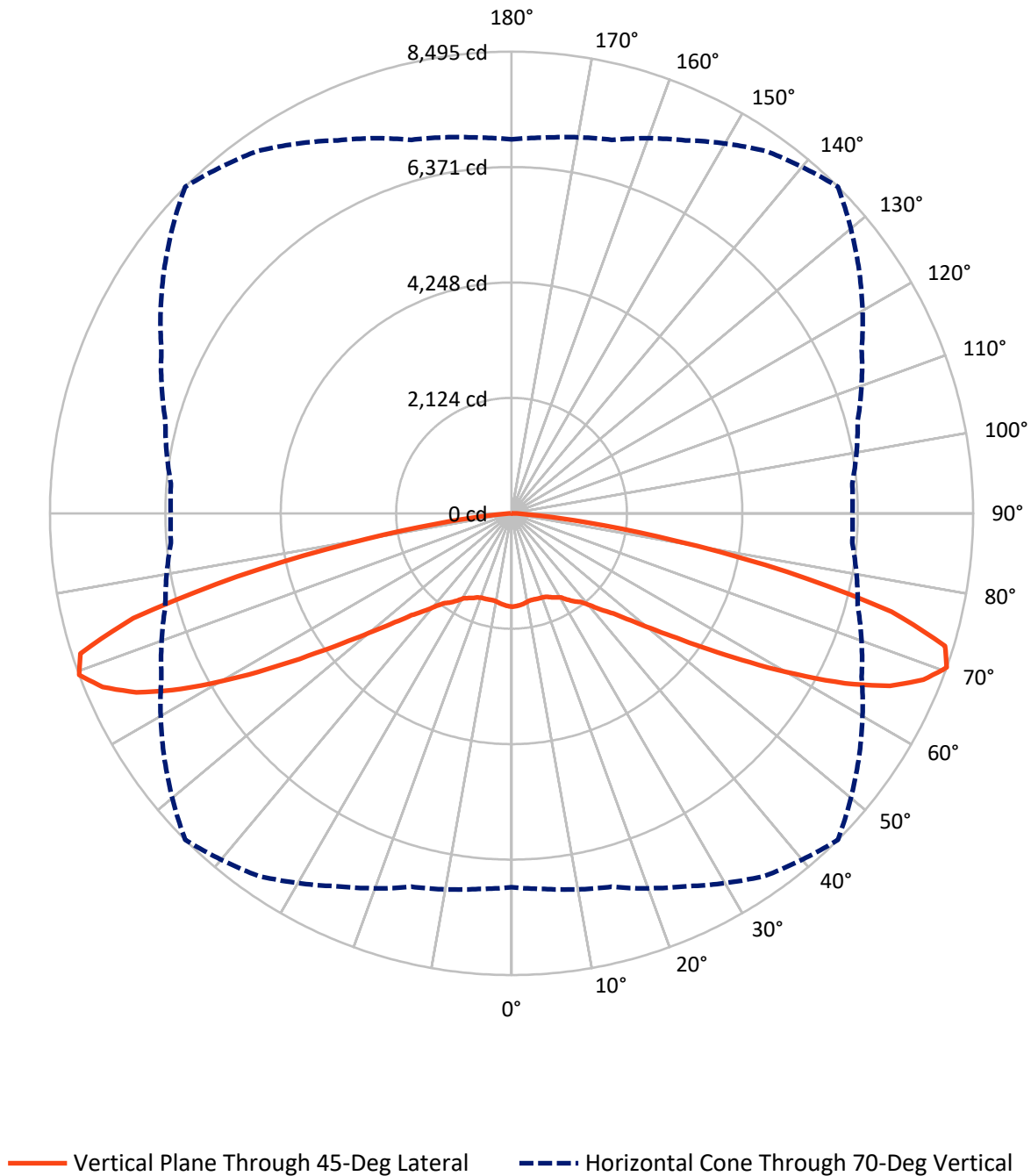
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10433.0	0.0	10433.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10433.0	0.0	10433.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	20866.0	0.0	20866.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.3	0.8
10°-20°	468.2	2.2
20°-30°	798.2	3.8
30°-40°	1247.3	6.0
40°-50°	2113.8	10.1
50°-60°	3854.7	18.5
60°-70°	6636.1	31.8
70°-80°	5201.7	24.9
80°-90°	385.7	1.8
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°	20866.0	100.0
0°-180°	20866.0	100.0

Coefficient of Utilization



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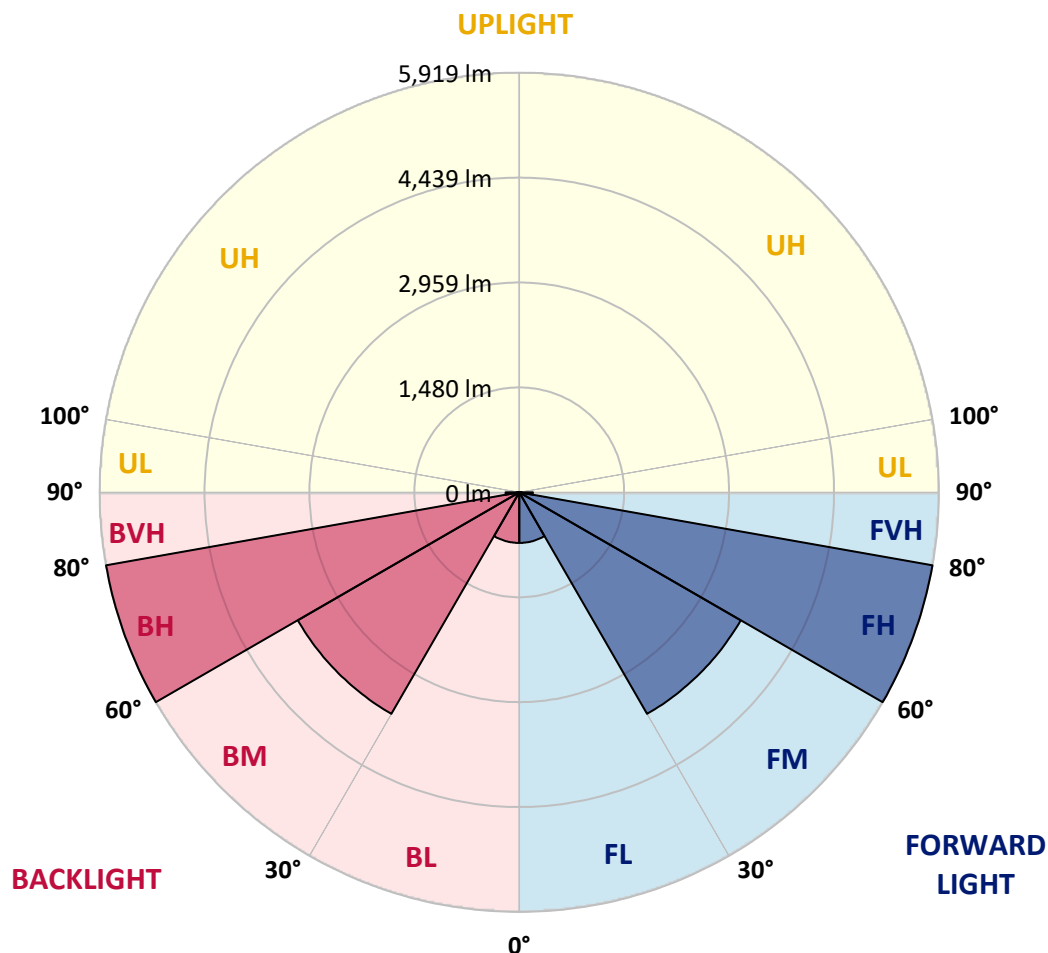
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	713.3	3.4			
FM	(30°-60°)	3607.9	17.3			
FH	(60°-80°)	5918.9	28.4			G3/7500
FVH	(80°-90°)	192.8	0.9			G2/225
BL	(0°-30°)	713.3	3.4	B2/1000		
BM	(30°-60°)	3607.9	17.3	B3/5000		
BH	(60°-80°)	5918.9	28.4	B5		G3/7500
BVH	(80°-90°)	192.8	0.9			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°	1717.3	1717.3	1717.3	1717.3	1717.3	1717.3	1717.3	1717.3	1717.3	1717.3	1717.3
2.5°	1709.7	1711.8	1709.7	1711.1	1707.6	1709.0	1709.0	1709.0	1708.3	1709.0	1707.6
5°	1694.5	1695.9	1693.1	1694.5	1692.4	1694.5	1695.2	1694.5	1693.1	1693.8	1691.0
7.5°	1671.7	1673.1	1671.0	1673.1	1670.3	1673.8	1673.1	1671.0	1669.0	1669.0	1666.2
10°	1659.3	1660.0	1654.5	1652.4	1646.2	1647.6	1649.6	1651.7	1653.8	1657.9	1657.2
12.5°	1660.0	1660.0	1651.7	1642.7	1633.8	1635.8	1639.3	1646.9	1655.2	1662.7	1663.4
15°	1666.9	1666.2	1653.8	1639.3	1633.1	1639.3	1641.4	1646.2	1659.3	1672.4	1673.1
17.5°	1671.7	1671.7	1652.4	1635.8	1635.1	1644.8	1644.1	1646.2	1660.7	1680.0	1680.7
20°	1680.7	1680.7	1655.8	1637.9	1637.9	1648.3	1648.9	1652.4	1666.9	1688.3	1691.7
22.5°	1700.7	1701.4	1675.2	1660.7	1662.1	1668.3	1670.3	1675.9	1689.0	1712.4	1716.6
25°	1729.0	1730.4	1703.5	1695.2	1700.0	1711.8	1710.4	1714.5	1729.0	1751.8	1755.9
27.5°	1768.4	1764.9	1740.1	1736.6	1741.4	1749.7	1749.0	1749.7	1761.4	1782.2	1787.0
30°	1819.4	1818.0	1800.1	1802.2	1800.1	1797.3	1798.0	1803.6	1809.8	1826.3	1831.2
32.5°	1869.1	1870.5	1859.5	1869.8	1885.0	1895.4	1879.5	1864.3	1857.4	1866.4	1870.5
35°	1958.9	1962.3	1945.0	1938.1	1958.9	1989.2	1944.4	1919.5	1933.3	1945.0	1948.5
37.5°	2111.4	2113.5	2084.5	2056.9	2041.7	2070.7	2025.8	2027.9	2076.2	2098.3	2097.6
40°	2285.3	2286.0	2266.7	2242.5	2216.3	2223.2	2205.3	2210.8	2242.5	2262.6	2268.1
42.5°	2492.4	2490.3	2460.0	2425.4	2417.9	2424.8	2394.4	2390.2	2426.8	2462.7	2463.4
45°	2760.9	2756.1	2716.7	2678.8	2642.2	2627.0	2619.4	2639.4	2689.8	2722.9	2723.6
47.5°	3050.1	3037.0	3016.3	2985.9	2954.2	2939.0	2926.5	2936.2	2972.8	2985.9	2987.3
50°	3347.6	3350.3	3354.5	3342.7	3331.0	3326.2	3293.7	3275.1	3286.2	3262.0	3258.5
52.5°	3700.3	3705.8	3745.8	3779.7	3799.7	3810.0	3748.6	3684.4	3648.5	3601.6	3587.8
55°	4116.5	4125.5	4184.1	4278.0	4374.6	4425.7	4314.6	4194.5	4083.4	3995.7	3967.4
57.5°	4580.3	4596.2	4677.0	4857.1	5055.2	5176.0	4988.2	4770.1	4555.5	4429.2	4407.1
60°	5124.2	5139.4	5251.2	5509.4	5830.3	6011.8	5727.5	5370.6	5103.5	4982.7	4942.0
62.5°	5771.6	5773.0	5910.4	6212.0	6635.8	6888.4	6503.3	6026.3	5750.9	5605.3	5566.0
65°	6468.1	6471.5	6613.7	6939.5	7377.8	7652.5	7217.7	6720.7	6383.9	6169.2	6138.8
67.5°	6960.2	6974.7	7124.5	7516.5	7926.5	8174.3	7724.3	7162.4	6773.2	6517.1	6491.5
70°	6881.5	6938.1	7114.1	7571.7	8141.9	8495.3	7806.4	7110.0	6596.5	6294.1	6272.7
72.5°	6001.5	6109.9	6344.5	6945.0	7856.8	8343.4	7358.5	6368.0	5786.8	5529.4	5490.7
75°	4086.8	4262.8	4616.9	5483.1	6712.4	7223.9	6194.8	5077.3	4530.6	4174.5	4148.2
77.5°	1822.2	1862.2	2310.9	3308.2	4632.1	5187.7	4500.9	3321.4	2493.1	1988.5	1882.2
80°	508.0	514.2	686.1	1232.0	2318.5	3048.0	2488.9	1294.2	727.5	512.8	483.2
82.5°	161.5	175.3	214.0	319.6	779.3	1390.8	800.0	345.1	245.7	196.0	176.7
85°	78.7	78.0	108.4	129.8	198.8	307.8	211.9	160.1	140.1	93.2	84.2
87.5°	33.1	33.8	50.4	45.6	58.0	49.7	68.3	71.8	75.2	41.4	35.9
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)