

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: P316309

Luminaire Tested: **GAN-SA5A-830-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316309
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-SA5A-830-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 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: 19495 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

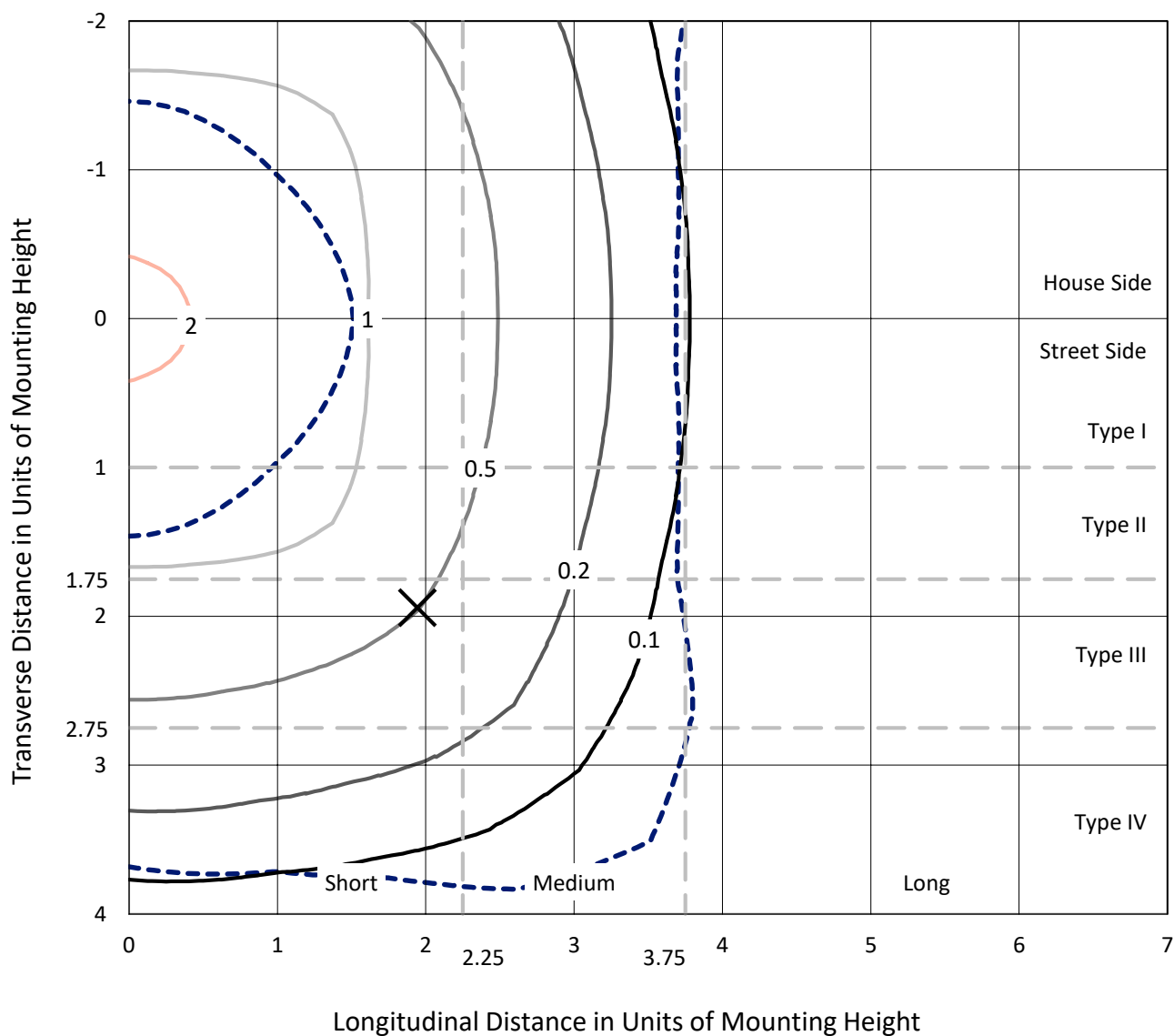
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

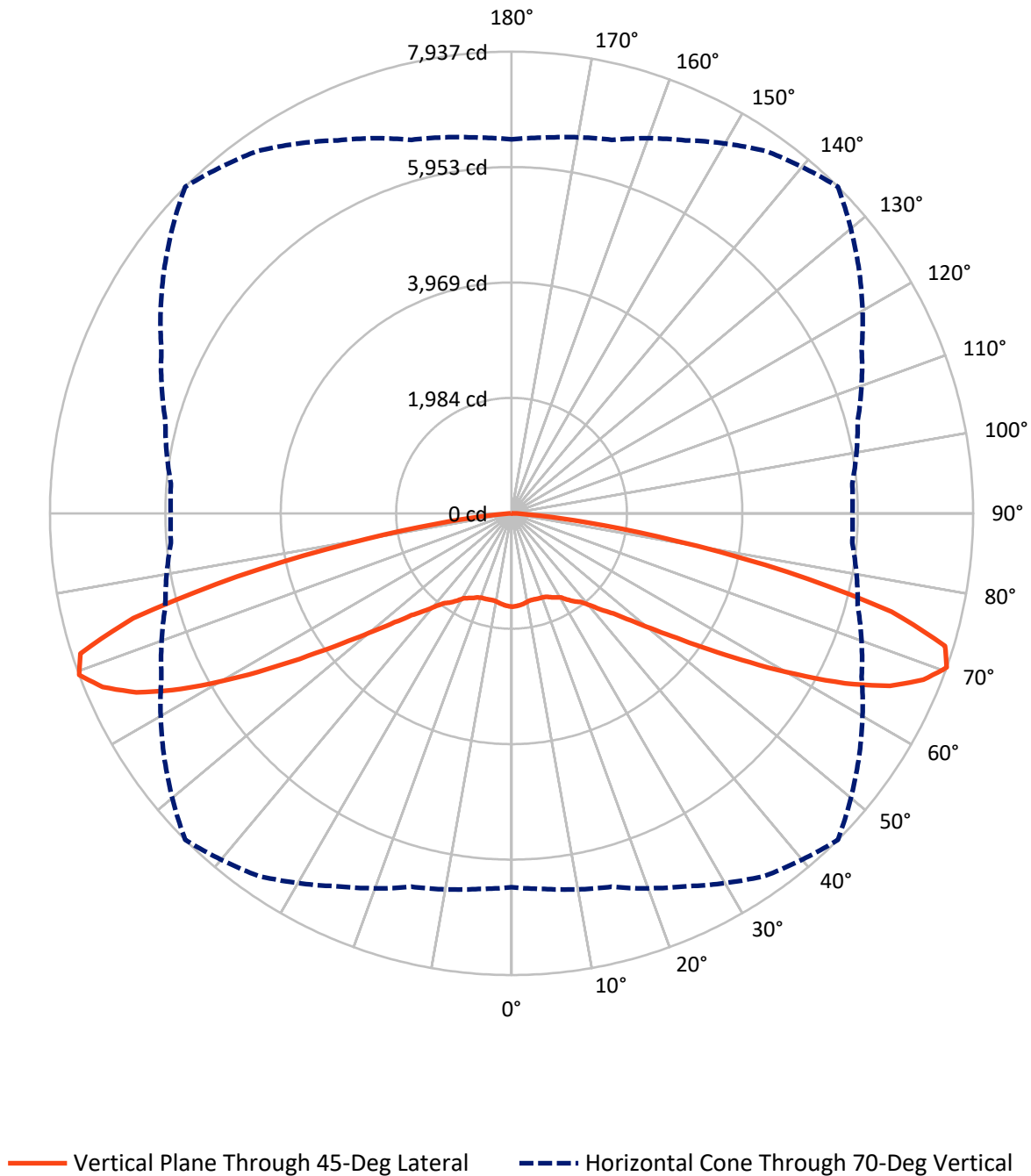
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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	9747.5	0.0	9747.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9747.5	0.0	9747.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	19495.0	0.0	19495.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.8	0.8
10°-20°	437.4	2.2
20°-30°	745.8	3.8
30°-40°	1165.3	6.0
40°-50°	1974.9	10.1
50°-60°	3601.4	18.5
60°-70°	6200.1	31.8
70°-80°	4859.9	24.9
80°-90°	360.4	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°	19495.0	100.0
0°-180°	19495.0	100.0

Coefficient of Utilization



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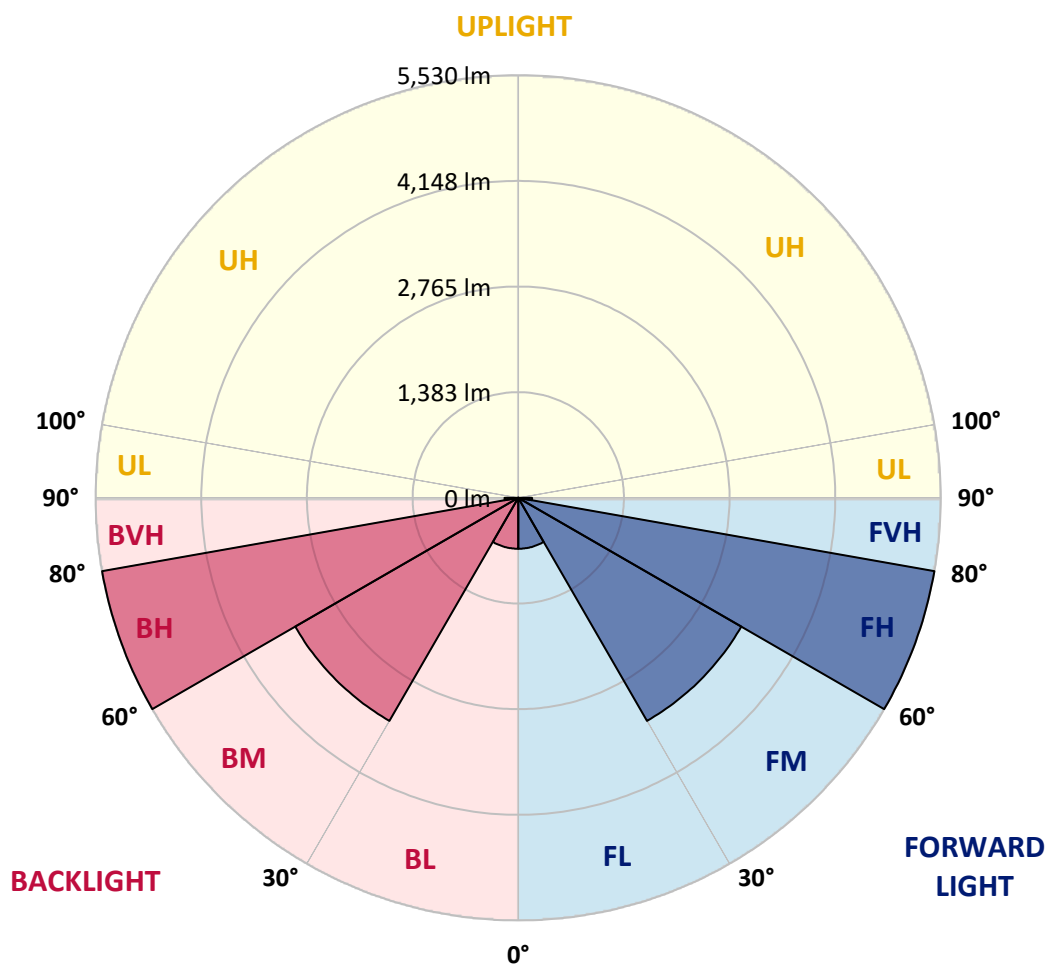
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	666.5	3.4			
FM	(30°-60°)	3370.8	17.3			
FH	(60°-80°)	5530.0	28.4			G3/7500
FVH	(80°-90°)	180.2	0.9			G2/225
BL	(0°-30°)	666.5	3.4	B2/1000		
BM	(30°-60°)	3370.8	17.3	B3/5000		
BH	(60°-80°)	5530.0	28.4	B5		G3/7500
BVH	(80°-90°)	180.2	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°	1604.4	1604.4	1604.4	1604.4	1604.4	1604.4	1604.4	1604.4	1604.4	1604.4	1604.4
2.5°	1597.3	1599.3	1597.3	1598.6	1595.4	1596.7	1596.7	1596.7	1596.1	1596.7	1595.4
5°	1583.2	1584.5	1581.9	1583.2	1581.2	1583.2	1583.8	1583.2	1581.9	1582.5	1579.9
7.5°	1561.9	1563.2	1561.2	1563.2	1560.6	1563.8	1563.2	1561.2	1559.3	1559.3	1556.7
10°	1550.3	1550.9	1545.8	1543.8	1538.0	1539.3	1541.2	1543.2	1545.1	1549.0	1548.3
12.5°	1550.9	1550.9	1543.2	1534.8	1526.4	1528.3	1531.6	1538.7	1546.4	1553.5	1554.1
15°	1557.4	1556.7	1545.1	1531.6	1525.8	1531.6	1533.5	1538.0	1550.3	1562.5	1563.2
17.5°	1561.9	1561.9	1543.8	1528.3	1527.7	1536.7	1536.1	1538.0	1551.6	1569.6	1570.3
20°	1570.3	1570.3	1547.0	1530.3	1530.3	1540.0	1540.6	1543.8	1557.4	1577.4	1580.6
22.5°	1589.0	1589.6	1565.1	1551.6	1552.9	1558.7	1560.6	1565.7	1578.0	1599.9	1603.8
25°	1615.4	1616.7	1591.5	1583.8	1588.3	1599.3	1598.0	1601.9	1615.4	1636.7	1640.6
27.5°	1652.2	1648.9	1625.7	1622.5	1627.0	1634.8	1634.1	1634.8	1645.7	1665.1	1669.6
30°	1699.9	1698.6	1681.8	1683.8	1681.8	1679.2	1679.9	1685.1	1690.9	1706.3	1710.8
32.5°	1746.3	1747.6	1737.3	1747.0	1761.1	1770.8	1756.0	1741.8	1735.4	1743.7	1747.6
35°	1830.1	1833.4	1817.2	1810.8	1830.1	1858.5	1816.6	1793.4	1806.3	1817.2	1820.5
37.5°	1972.7	1974.6	1947.5	1921.7	1907.5	1934.6	1892.7	1894.6	1939.8	1960.4	1959.8
40°	2135.2	2135.8	2117.8	2095.2	2070.7	2077.1	2060.4	2065.5	2095.2	2113.9	2119.0
42.5°	2328.6	2326.7	2298.3	2266.1	2259.0	2265.4	2237.1	2233.2	2267.4	2300.9	2301.5
45°	2579.5	2575.0	2538.2	2502.7	2468.6	2454.4	2447.3	2466.0	2513.1	2544.0	2544.7
47.5°	2849.7	2837.4	2818.1	2789.7	2760.1	2745.9	2734.3	2743.3	2777.5	2789.7	2791.0
50°	3127.6	3130.2	3134.1	3123.1	3112.2	3107.6	3077.3	3059.9	3070.2	3047.7	3044.4
52.5°	3457.2	3462.3	3499.7	3531.3	3550.0	3559.7	3502.3	3442.3	3408.8	3364.9	3352.0
55°	3846.0	3854.4	3909.2	3996.9	4087.2	4134.9	4031.1	3918.9	3815.1	3733.2	3706.7
57.5°	4279.4	4294.2	4369.7	4538.0	4723.0	4835.9	4660.5	4456.7	4256.2	4138.1	4117.5
60°	4787.5	4801.7	4906.2	5147.4	5447.2	5616.8	5351.1	5017.7	4768.2	4655.3	4617.3
62.5°	5392.4	5393.7	5522.0	5803.8	6199.8	6435.8	6076.0	5630.4	5373.1	5237.0	5200.2
65°	6043.1	6046.3	6179.2	6483.5	6893.0	7149.7	6743.4	6279.1	5964.4	5763.9	5735.5
67.5°	6502.9	6516.4	6656.4	7022.7	7405.7	7637.2	7216.8	6691.8	6328.1	6088.9	6065.0
70°	6429.4	6482.3	6646.7	7074.2	7606.9	7937.1	7293.5	6642.8	6163.0	5880.6	5860.6
72.5°	5607.2	5708.4	5927.7	6488.7	7340.6	7795.2	6875.0	5949.6	5406.6	5166.1	5130.0
75°	3818.3	3982.7	4313.5	5122.9	6271.4	6749.2	5787.7	4743.7	4232.9	3900.2	3875.7
77.5°	1702.5	1739.9	2159.0	3090.9	4327.7	4846.9	4205.2	3103.1	2329.3	1857.9	1758.6
80°	474.6	480.4	641.0	1151.1	2166.1	2847.8	2325.4	1209.1	679.7	479.1	451.4
82.5°	150.9	163.8	199.9	298.6	728.1	1299.4	747.4	322.4	229.6	183.1	165.1
85°	73.5	72.9	101.2	121.2	185.7	287.6	198.0	149.6	130.9	87.1	78.7
87.5°	31.0	31.6	47.1	42.6	54.2	46.4	63.8	67.1	70.3	38.7	33.5
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)