

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: P316976

Luminaire Tested: **GAN-SA2D-830-U-5NQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316976
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2D-830-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13012 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 129
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



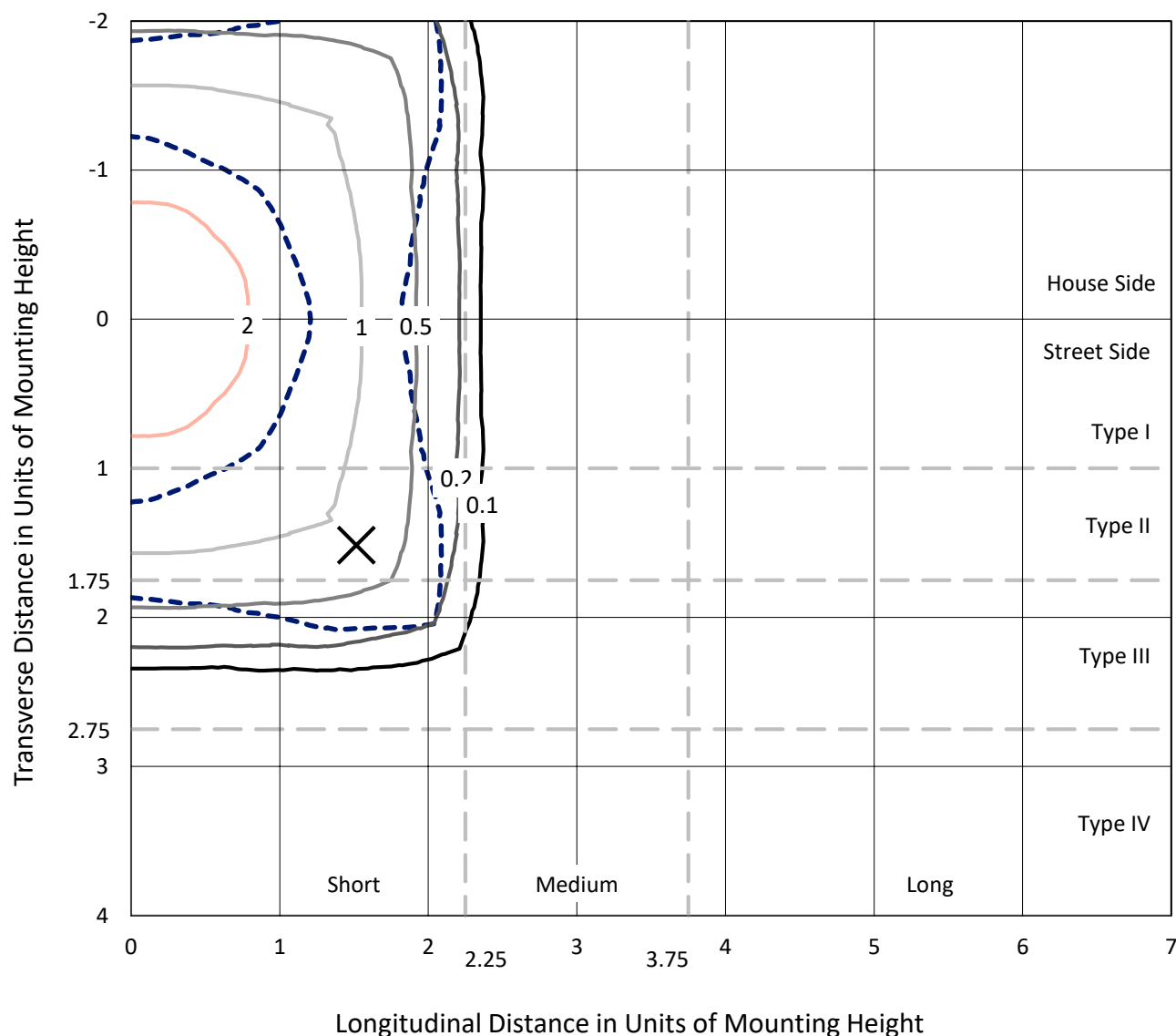
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

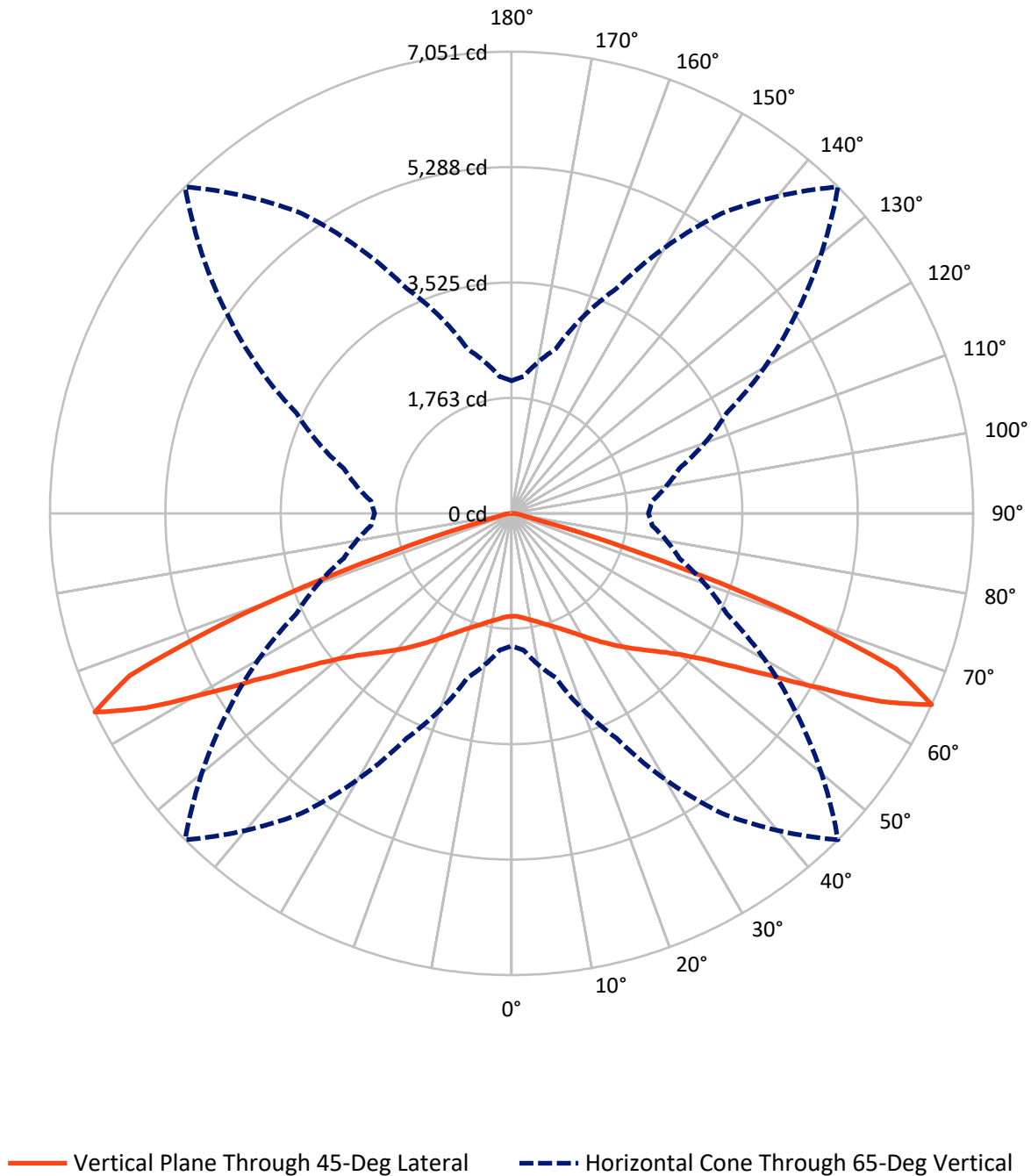
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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	6506.0	0.0	6506.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6506.0	0.0	6506.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	13012.0	0.0	13012.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.2	1.2
10°-20°	495.5	3.8
20°-30°	929.7	7.1
30°-40°	1537.6	11.8
40°-50°	2381.6	18.3
50°-60°	3652.6	28.1
60°-70°	3408.3	26.2
70°-80°	396.7	3.0
80°-90°	55.7	0.4
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°	13012.0	100.0
0°-180°	13012.0	100.0

Coefficient of Utilization



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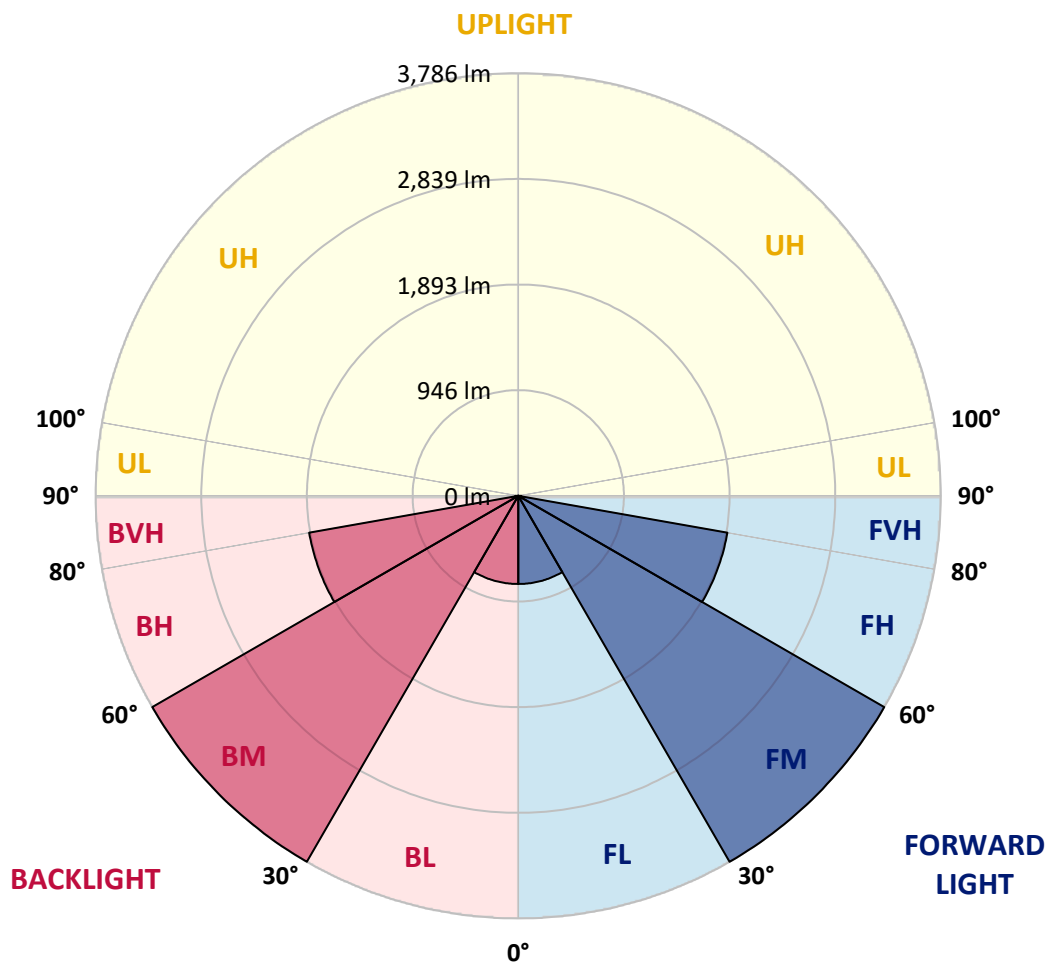
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	789.7	6.1			
FM	(30°-60°)	3785.9	29.1			
FH	(60°-80°)	1902.5	14.6			G2/5000
FVH	(80°-90°)	27.9	0.2			G1/100
BL	(0°-30°)	789.7	6.1	B2/1000		
BM	(30°-60°)	3785.9	29.1	B3/5000		
BH	(60°-80°)	1902.5	14.6	B3/2500		G2/5000
BVH	(80°-90°)	27.9	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4
2.5°	1576.5	1575.7	1576.5	1577.0	1574.4	1575.7	1575.3	1577.4	1578.3	1577.4	1577.4
5°	1594.7	1593.4	1595.1	1597.3	1593.8	1594.7	1593.4	1596.0	1596.8	1595.1	1596.4
7.5°	1619.7	1620.2	1621.9	1625.8	1623.6	1625.4	1622.8	1623.2	1622.8	1620.2	1620.6
10°	1647.0	1647.4	1650.4	1655.6	1656.5	1656.5	1654.7	1653.4	1651.7	1650.0	1650.4
12.5°	1679.8	1681.9	1684.1	1690.6	1690.6	1694.0	1693.2	1689.7	1686.7	1684.1	1684.1
15°	1724.3	1723.8	1726.4	1732.9	1735.9	1741.5	1741.5	1736.8	1732.9	1730.3	1729.5
17.5°	1770.9	1772.2	1773.9	1781.7	1786.5	1792.9	1793.8	1789.9	1787.3	1783.9	1781.7
20°	1825.3	1827.5	1834.4	1837.4	1841.8	1847.8	1850.0	1849.1	1846.5	1844.8	1845.2
22.5°	1888.8	1894.4	1898.8	1903.1	1908.3	1912.6	1914.7	1917.8	1915.2	1913.9	1913.0
25°	1965.7	1969.6	1978.2	1986.0	1989.5	1990.8	1993.4	1997.7	1997.2	1994.2	1994.2
27.5°	2053.0	2060.3	2071.1	2082.3	2082.3	2078.0	2086.7	2094.0	2091.4	2087.5	2082.3
30°	2158.8	2165.7	2178.2	2193.8	2186.0	2183.0	2194.6	2208.0	2204.1	2197.7	2196.8
32.5°	2272.8	2279.3	2295.7	2312.6	2302.6	2298.3	2310.8	2330.3	2323.4	2310.4	2302.6
35°	2396.4	2402.8	2426.2	2446.5	2429.6	2422.3	2432.6	2453.8	2441.7	2417.5	2411.5
37.5°	2530.7	2534.1	2564.4	2585.1	2573.4	2554.0	2567.0	2582.5	2572.1	2542.8	2531.1
40°	2670.2	2682.7	2717.7	2741.9	2721.6	2690.9	2712.5	2734.1	2718.6	2681.0	2661.1
42.5°	2833.0	2842.5	2889.2	2910.8	2878.0	2834.8	2864.1	2893.5	2878.0	2841.7	2824.4
45°	3002.4	3017.0	3072.8	3094.4	3046.8	2992.0	3027.8	3079.2	3077.9	3025.7	3007.5
47.5°	3186.8	3201.5	3268.0	3296.5	3245.1	3171.7	3222.2	3294.8	3289.6	3232.1	3217.5
50°	3399.7	3415.3	3498.2	3534.1	3486.1	3400.6	3476.6	3540.5	3531.0	3460.2	3461.5
52.5°	3667.1	3666.2	3769.5	3831.7	3782.4	3706.8	3776.8	3839.0	3799.7	3701.6	3698.6
55°	3901.2	3915.5	4043.3	4161.2	4158.2	4129.3	4157.3	4159.9	4047.6	3917.2	3901.2
57.5°	4055.0	4082.2	4262.3	4475.7	4635.5	4673.9	4619.5	4454.5	4191.5	3982.8	3957.3
60°	3960.4	4001.8	4284.8	4719.7	5190.5	5416.4	5109.3	4597.5	4079.6	3788.9	3754.3
62.5°	3322.0	3392.0	3806.2	4601.8	5668.2	6328.6	5464.4	4368.1	3634.7	3234.3	3175.1
65°	2023.2	2097.0	2596.3	3787.6	5590.9	7050.8	5302.4	3625.6	2652.9	2154.9	2091.0
67.5°	674.2	695.8	990.0	2093.6	4394.0	6335.1	4401.4	2170.5	1154.6	765.4	742.9
70°	263.9	266.1	314.0	606.9	2075.0	4351.3	2289.7	617.7	328.3	259.6	265.2
72.5°	193.9	194.8	208.2	253.5	540.8	1916.9	560.2	254.8	202.6	181.8	181.8
75°	155.9	155.9	165.4	184.9	242.3	439.7	245.8	182.7	158.5	145.1	143.4
77.5°	123.1	125.7	133.0	145.6	164.1	211.6	170.2	144.7	127.9	115.3	112.7
80°	91.6	94.2	106.3	112.3	117.9	146.9	125.7	113.2	101.1	86.4	83.8
82.5°	60.0	62.6	77.7	81.2	79.9	95.9	84.7	83.4	74.3	55.7	53.1
85°	39.3	40.2	51.8	54.0	49.7	43.6	54.0	57.0	51.8	36.3	35.0
87.5°	18.6	18.6	26.3	24.6	22.5	18.1	24.6	28.9	29.4	17.7	17.3
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)