

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P387163

Luminaire Tested: GAW-SA2D-830-U-5NQ

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P387163  
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  
Product Line: STREETWORKS  
Catalog Number: GAW-SA2D-830-U-5NQ  
Description: GALLEON WALL 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: 13274 lumens  
Efficiency: N/A  
Efficacy: 103.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2

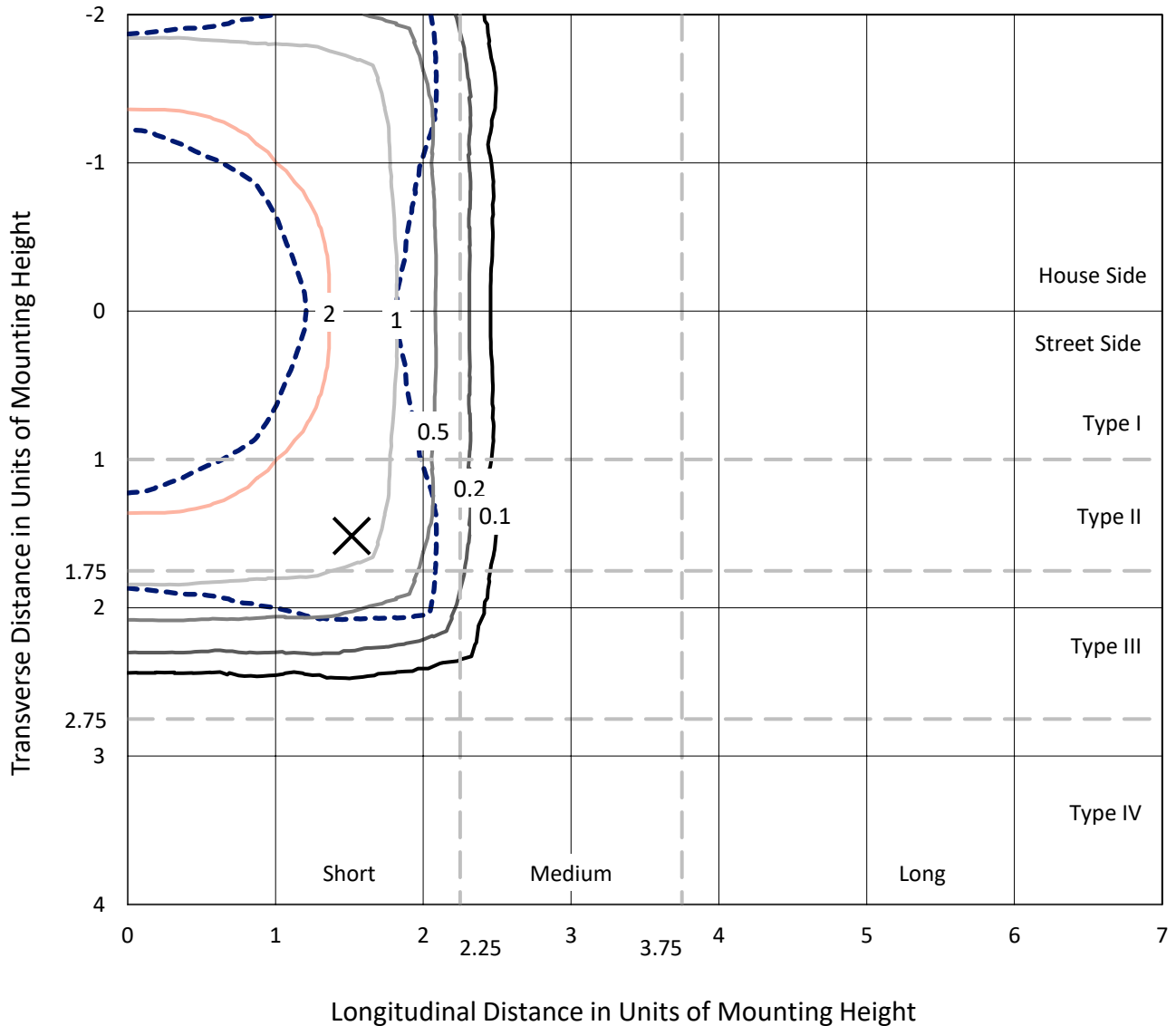
Input Watts (W): 128  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P387163  
 CATALOG NUMBER: GAW-SA2D-830-U-5NQ

### Iso-Footcandle Lines of Horizontal Illumination

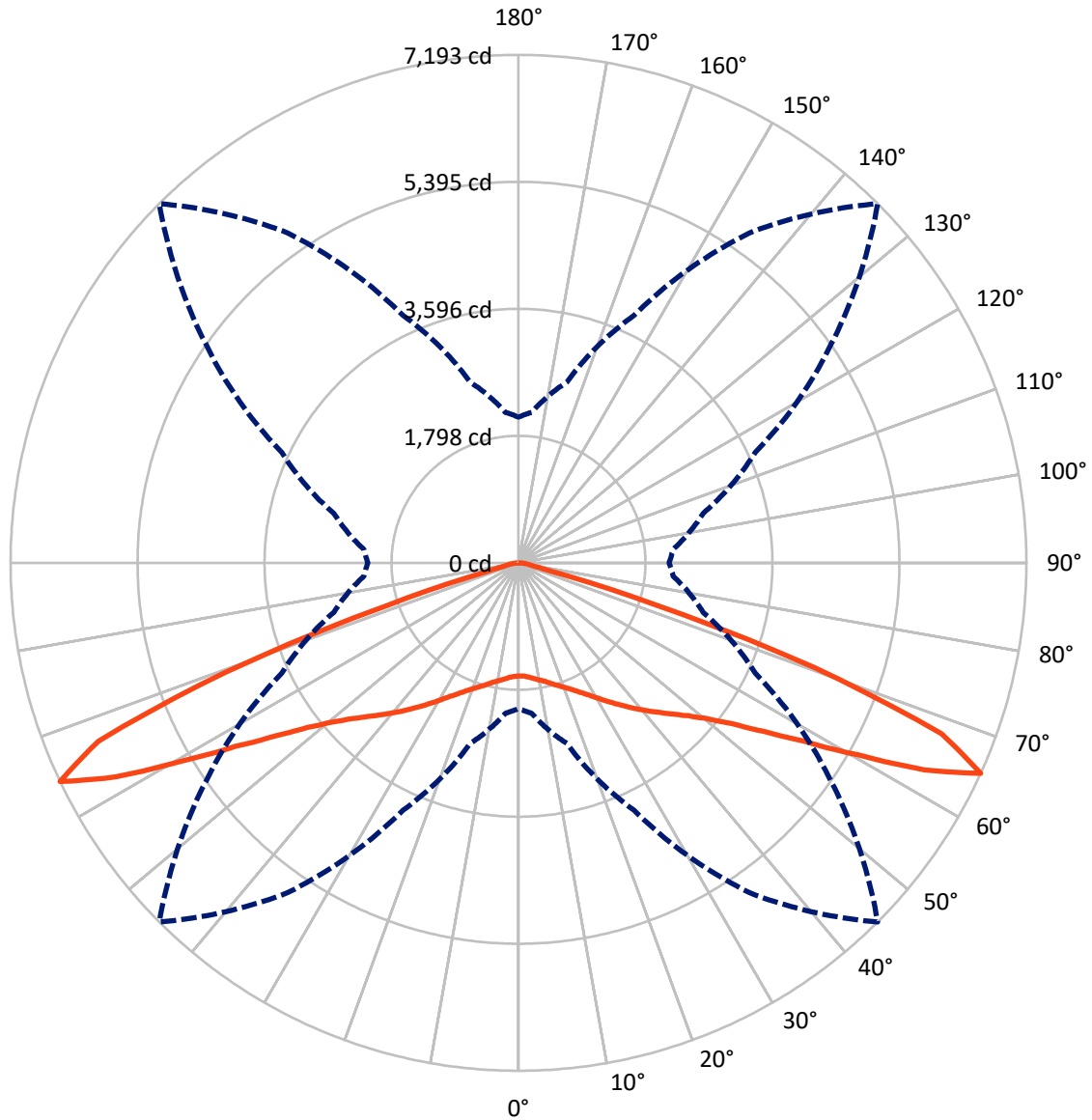
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4 fc  
 Type V - Short - N/A

REPORT NUMBER: P387163  
CATALOG NUMBER: GAW-SA2D-830-U-5NQ

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P387163  
 CATALOG NUMBER: GAW-SA2D-830-U-5NQ

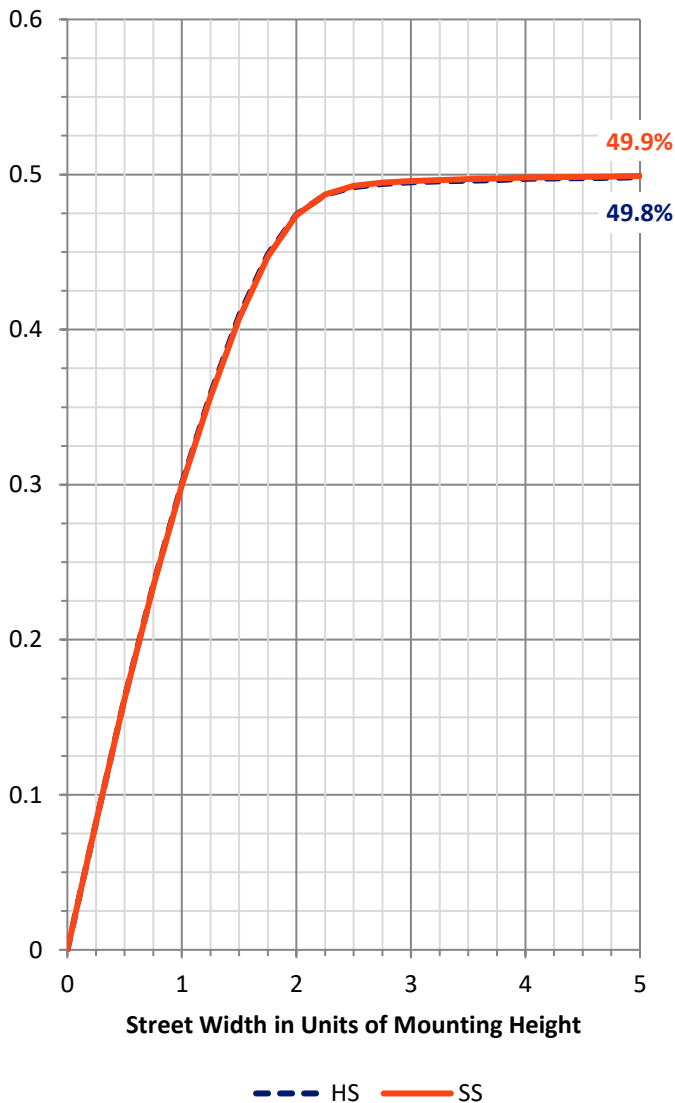
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6637.0	0.0	6637.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6637.0	0.0	6637.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	13274.0	0.0	13274.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	157.3	1.2
10°-20°	505.5	3.8
20°-30°	948.5	7.1
30°-40°	1568.6	11.8
40°-50°	2429.5	18.3
50°-60°	3726.2	28.1
60°-70°	3476.9	26.2
70°-80°	404.7	3.0
80°-90°	56.9	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°	13274.0	100.0
0°-180°	13274.0	100.0

**Coefficient of Utilization**

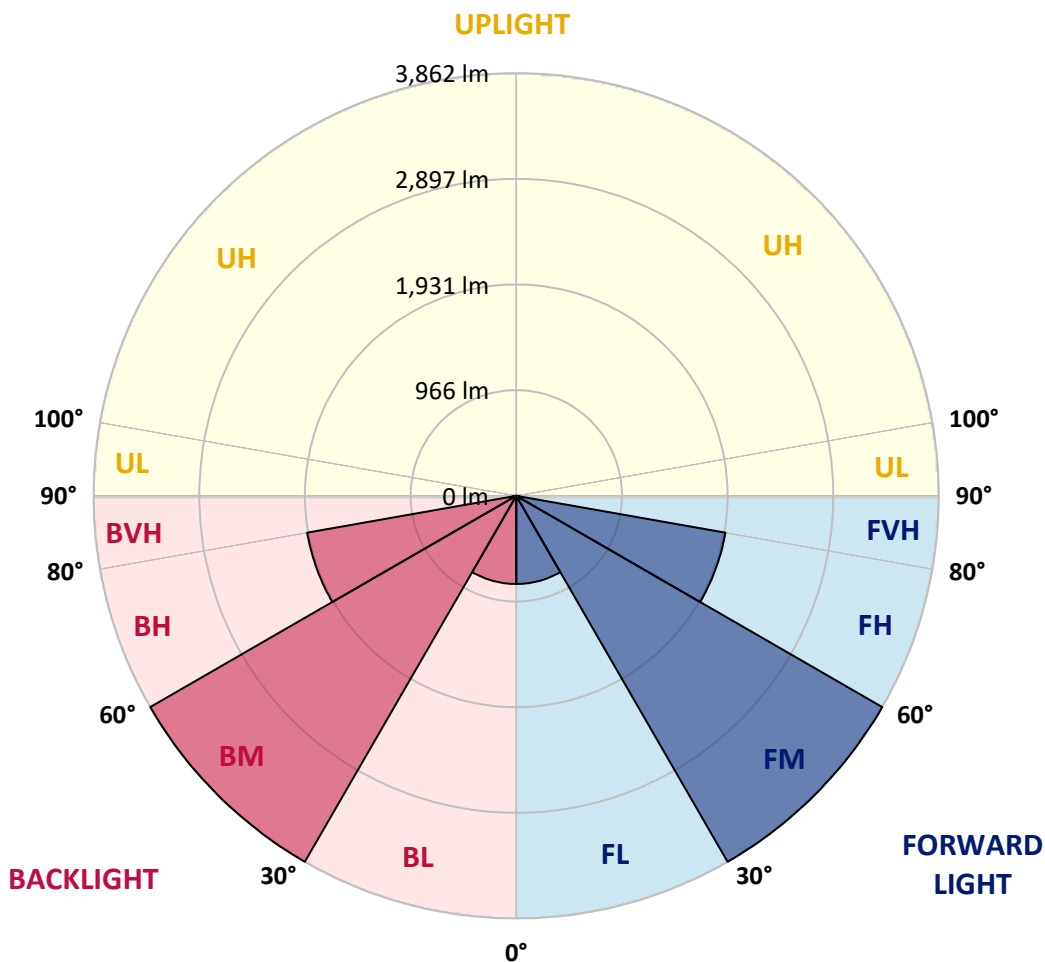


REPORT NUMBER: P387163  
 CATALOG NUMBER: GAW-SA2D-830-U-5NQ

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	805.6	6.1			
FM (30°-60°)	3862.1	29.1			
FH (60°-80°)	1940.8	14.6			G2/5000
FVH (80°-90°)	28.4	0.2			G1/100
BL (0°-30°)	805.6	6.1	B2/1000		
BM (30°-60°)	3862.1	29.1	B3/5000		
BH (60°-80°)	1940.8	14.6	B3/2500		G2/5000
BVH (80°-90°)	28.4	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





REPORT NUMBER: P387163  
 CATALOG NUMBER: GAW-SA2D-830-U-5NQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1603.0	1603.0	1603.0	1603.0	1603.0	1603.0	1603.0	1603.0	1603.0	1603.0	1603.0
2.5°	1608.3	1607.4	1608.3	1608.7	1606.1	1607.4	1607.0	1609.2	1610.1	1609.2	1609.2
5°	1626.8	1625.5	1627.2	1629.4	1625.9	1626.8	1625.5	1628.1	1629.0	1627.2	1628.6
7.5°	1652.4	1652.8	1654.6	1658.5	1656.3	1658.1	1655.4	1655.9	1655.4	1652.8	1653.2
10°	1680.1	1680.6	1683.6	1688.9	1689.8	1689.8	1688.0	1686.7	1685.0	1683.2	1683.6
12.5°	1713.6	1715.8	1718.0	1724.6	1724.6	1728.1	1727.3	1723.7	1720.7	1718.0	1718.0
15°	1759.0	1758.5	1761.2	1767.8	1770.9	1776.6	1776.6	1771.8	1767.8	1765.2	1764.3
17.5°	1806.6	1807.9	1809.7	1817.6	1822.4	1829.0	1829.9	1826.0	1823.3	1819.8	1817.6
20°	1862.1	1864.3	1871.3	1874.4	1878.8	1885.0	1887.2	1886.3	1883.7	1881.9	1882.4
22.5°	1926.9	1932.6	1937.0	1941.4	1946.7	1951.1	1953.3	1956.4	1953.7	1952.4	1951.5
25°	2005.3	2009.3	2018.1	2026.0	2029.5	2030.9	2033.5	2037.9	2037.5	2034.4	2034.4
27.5°	2094.3	2101.8	2112.8	2124.3	2124.3	2119.9	2128.7	2136.2	2133.5	2129.6	2124.3
30°	2202.3	2209.3	2222.1	2237.9	2230.0	2226.9	2238.8	2252.5	2248.5	2241.9	2241.0
32.5°	2318.6	2325.2	2341.9	2359.1	2349.0	2344.6	2357.4	2377.2	2370.1	2356.9	2349.0
35°	2444.6	2451.2	2475.0	2495.7	2478.5	2471.0	2481.6	2503.2	2490.9	2466.2	2460.0
37.5°	2581.6	2585.2	2616.0	2637.2	2625.3	2605.4	2618.7	2634.5	2623.9	2594.0	2582.1
40°	2724.0	2736.7	2772.4	2797.1	2776.4	2745.1	2767.1	2789.2	2773.3	2735.0	2714.7
42.5°	2890.1	2899.8	2947.4	2969.4	2935.9	2891.8	2921.8	2951.8	2935.9	2898.9	2881.3
45°	3062.8	3077.8	3134.6	3156.7	3108.2	3052.2	3088.8	3141.2	3139.9	3086.6	3068.1
47.5°	3251.0	3265.9	3333.8	3362.9	3310.4	3235.5	3287.1	3361.1	3355.8	3297.2	3282.2
50°	3468.2	3484.0	3568.6	3605.2	3556.3	3469.1	3546.6	3611.8	3602.1	3529.9	3531.2
52.5°	3740.9	3740.0	3845.4	3908.8	3858.6	3781.5	3852.8	3916.3	3876.2	3776.2	3773.1
55°	3979.7	3994.3	4124.7	4245.0	4241.9	4212.4	4241.0	4243.7	4129.1	3996.1	3979.7
57.5°	4136.6	4164.4	4348.1	4565.8	4728.8	4768.0	4712.5	4544.2	4275.9	4063.0	4037.0
60°	4040.1	4082.4	4371.0	4814.7	5295.0	5525.5	5212.2	4690.0	4161.7	3865.2	3829.9
62.5°	3388.9	3460.2	3882.8	4694.4	5782.4	6456.1	5574.4	4456.1	3707.9	3299.4	3239.1
65°	2063.9	2139.2	2648.6	3863.9	5703.5	7192.8	5409.1	3698.6	2706.3	2198.3	2133.1
67.5°	687.8	709.9	1009.9	2135.7	4482.5	6462.7	4490.0	2214.2	1177.8	780.8	757.9
70°	269.2	271.4	320.3	619.1	2116.8	4438.9	2335.8	630.1	334.9	264.8	270.5
72.5°	197.8	198.7	212.4	258.6	551.7	1955.5	571.5	260.0	206.7	185.5	185.5
75°	159.1	159.1	168.8	188.6	247.2	448.6	250.7	186.4	161.7	148.1	146.3
77.5°	125.6	128.2	135.7	148.5	167.4	215.9	173.6	147.6	130.4	117.6	115.0
80°	93.4	96.1	108.4	114.6	120.3	149.8	128.2	115.4	103.1	88.1	85.5
82.5°	61.2	63.9	79.3	82.8	81.5	97.8	86.4	85.0	75.8	56.8	54.2
85°	40.1	41.0	52.9	55.1	50.7	44.5	55.1	58.2	52.9	37.0	35.7
87.5°	18.9	18.9	26.9	25.1	22.9	18.5	25.1	29.5	30.0	18.1	17.6
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)