

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: P479828

Luminaire Tested: **IFLD-S-SA2A-827-U-5WQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479828  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2A-827-U-5WQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5WQ distribution lens  
Light Source: (32) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

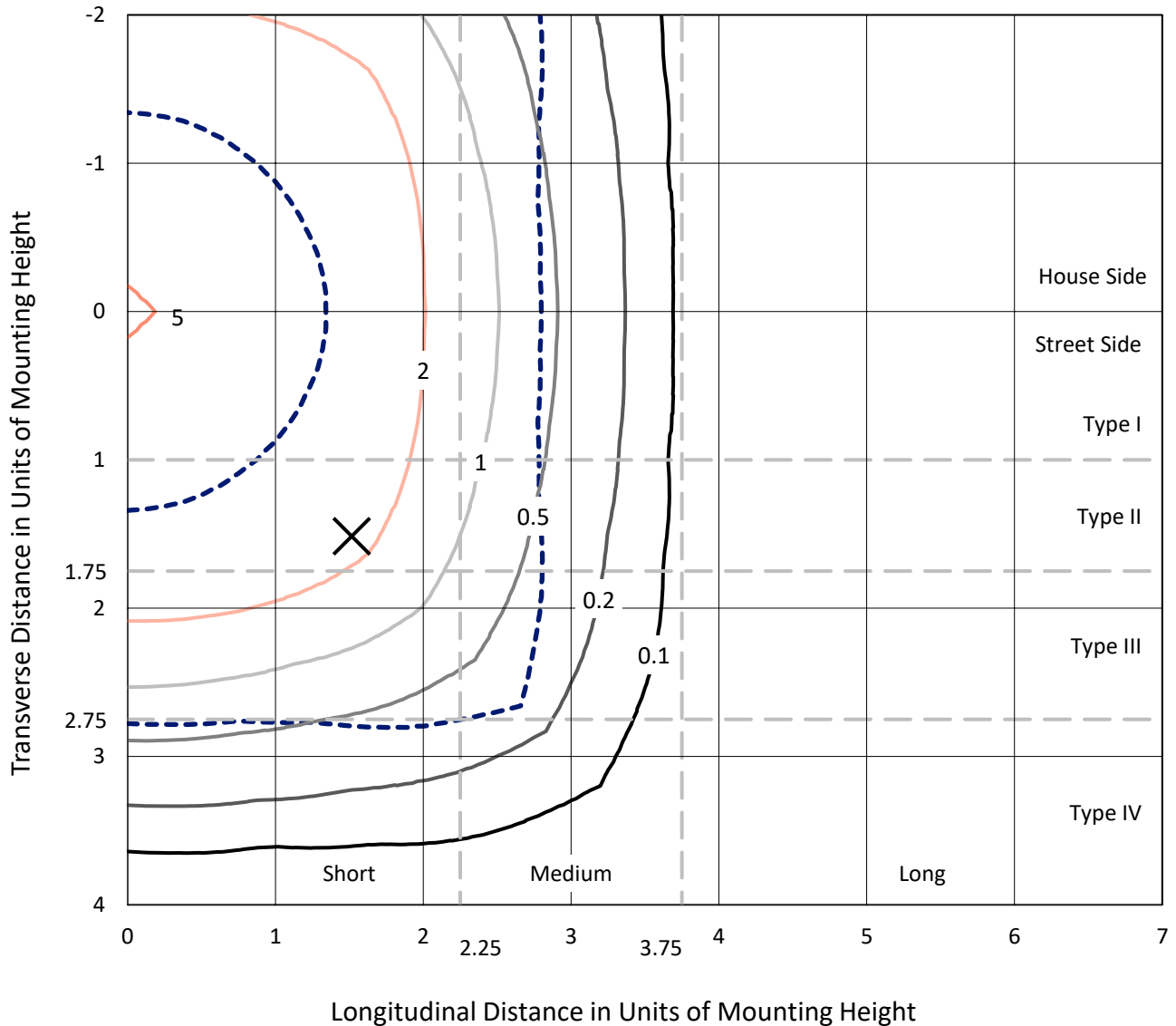
Lumens per Lamp: N/A  
Luminaire Lumens: 6964.4 lumens  
Efficiency: N/A  
Efficacy: 109.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

Input Watts (W): 63.8  
Input Voltage (V): 120  
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

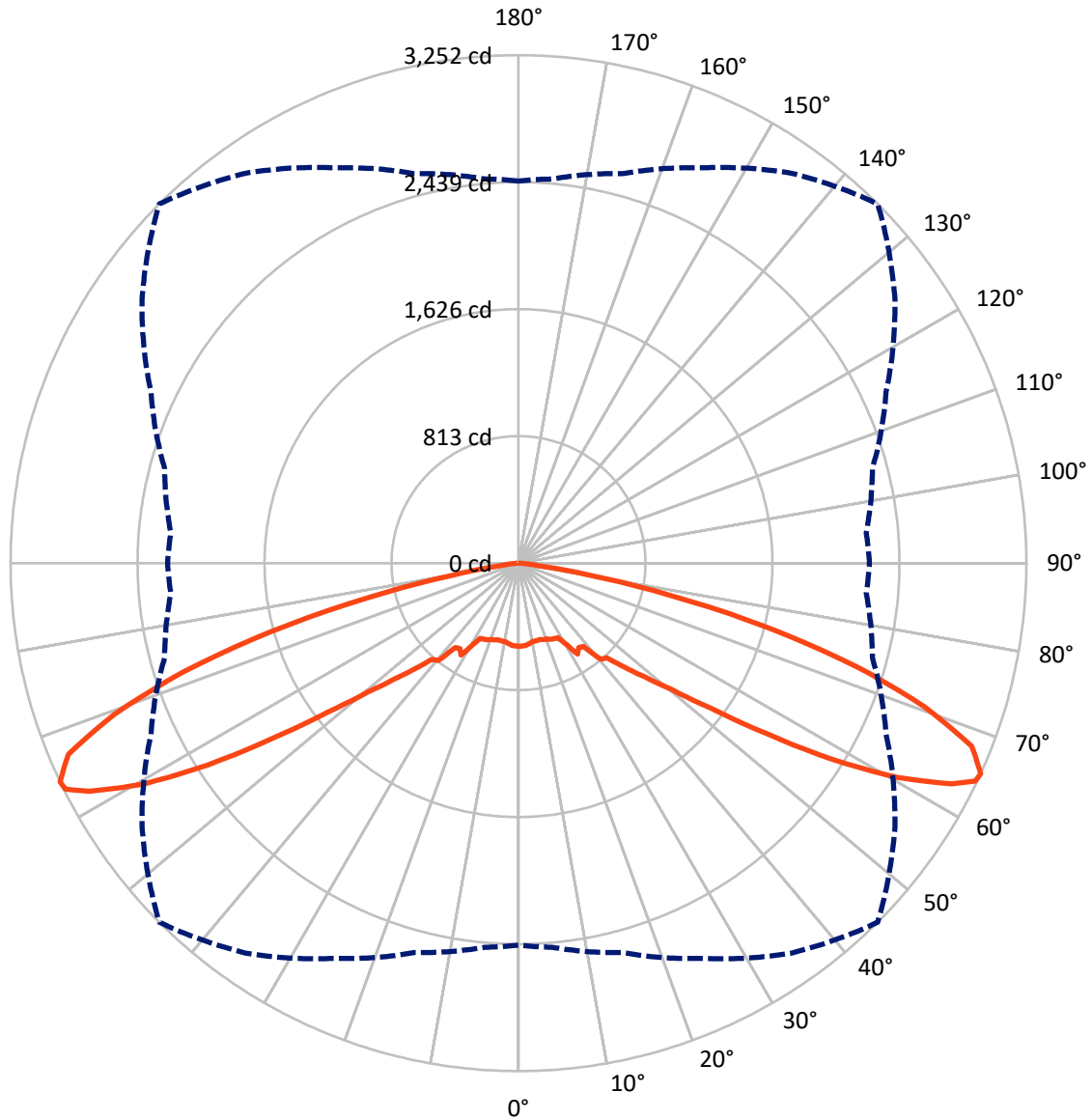
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.3 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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

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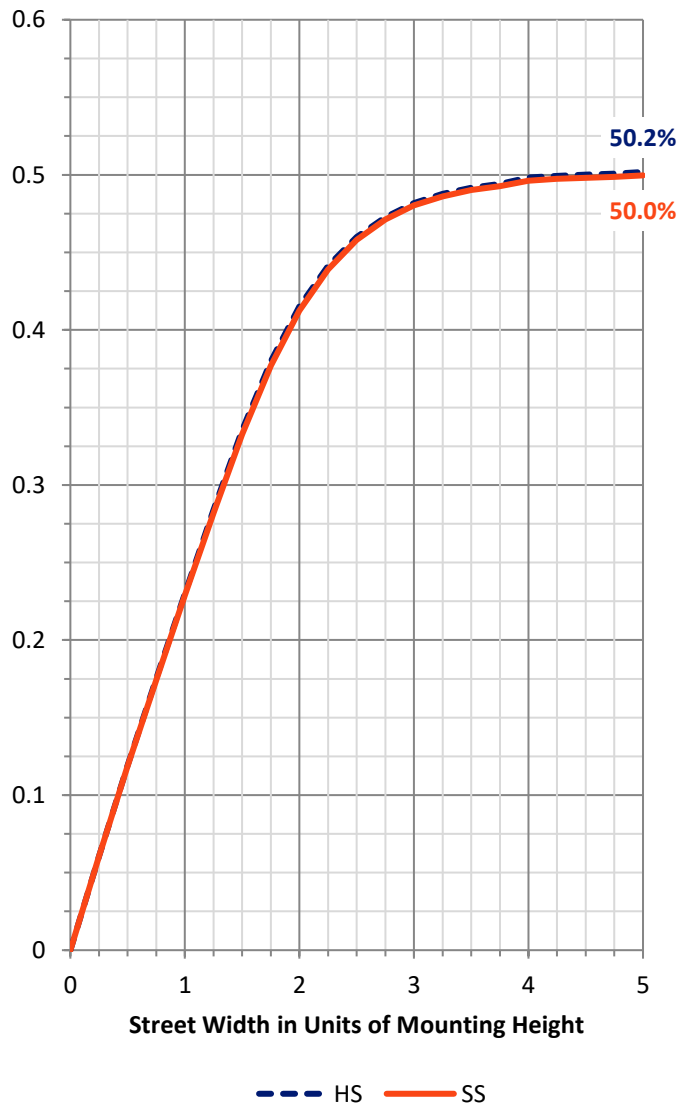
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3482.2	0.0	3482.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3482.2	0.0	3482.2
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	6964.4	0.0	6964.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.0	0.7
10°-20°	146.8	2.1
20°-30°	254.1	3.6
30°-40°	422.5	6.1
40°-50°	762.2	10.9
50°-60°	1697.9	24.4
60°-70°	2530.4	36.3
70°-80°	1048.6	15.1
80°-90°	51.9	0.7
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°	6964.4	100.0
0°-180°	6964.4	100.0

**Coefficient of Utilization**



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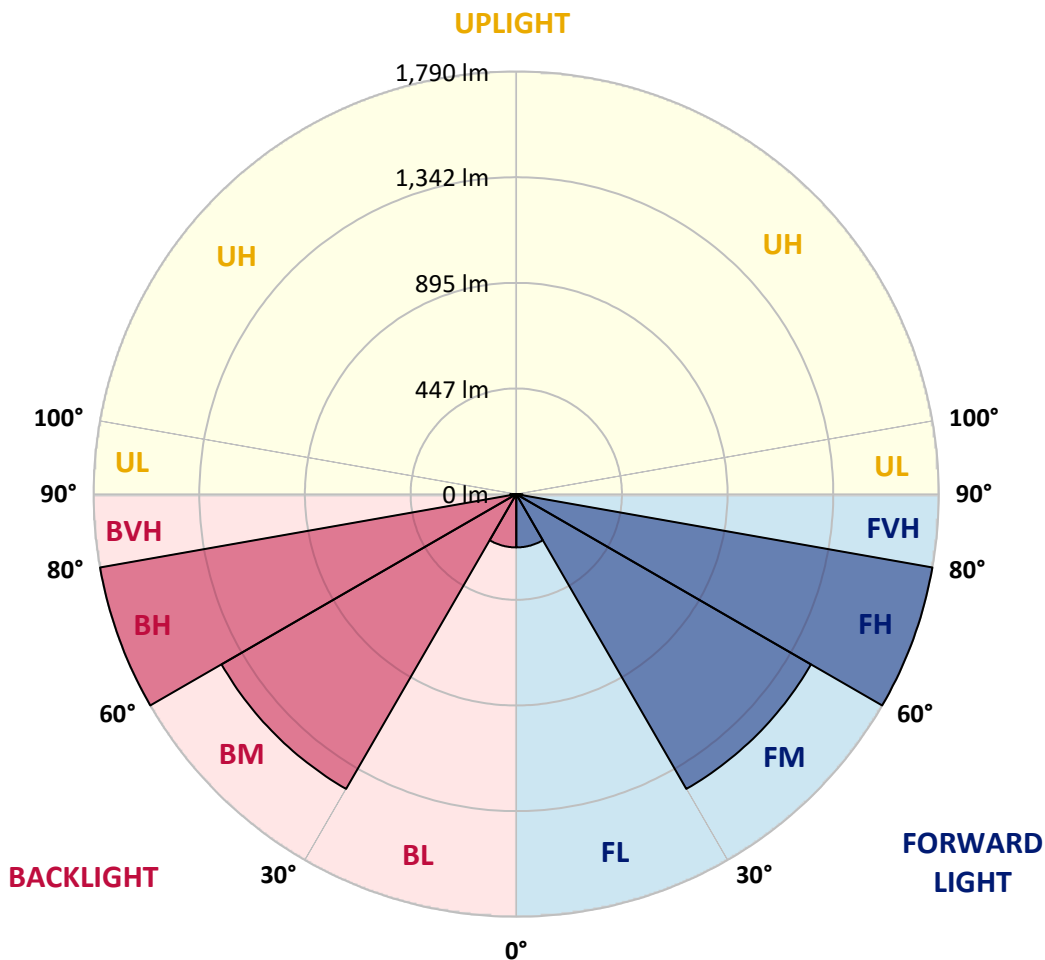
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	225.4	3.2			
FM (30°-60°)	1441.3	20.7			
FH (60°-80°)	1789.5	25.7			G1/1800
FVH (80°-90°)	26.0	0.4			G1/100
BL (0°-30°)	225.4	3.2	B1/500		
BM (30°-60°)	1441.3	20.7	B2/2500		
BH (60°-80°)	1789.5	25.7	B3/2500		G1/1800
BVH (80°-90°)	26.0	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	532.5	532.5	532.5	532.5	532.5	532.5	532.5	532.5	532.5	532.5	532.5
2.5°	526.3	527.9	527.1	527.1	529.4	530.9	531.7	539.4	536.3	538.6	536.3
5°	527.9	527.9	529.4	527.9	529.4	527.9	529.4	527.1	529.4	530.9	533.2
7.5°	524.8	523.2	520.9	520.9	520.2	518.6	516.3	522.5	519.4	521.7	525.5
10°	525.5	523.2	515.5	517.1	510.2	510.2	511.7	511.7	518.6	526.3	528.6
12.5°	525.5	520.9	518.6	508.6	508.6	509.4	513.2	514.8	519.4	522.5	530.2
15°	525.5	523.2	519.4	506.3	509.4	507.8	511.7	511.7	521.7	527.1	530.9
17.5°	528.6	530.2	523.2	510.9	511.7	514.8	512.5	514.8	527.1	530.9	536.3
20°	529.4	523.2	520.9	513.2	520.2	518.6	517.8	522.5	526.3	533.2	539.4
22.5°	527.9	530.2	520.9	520.2	526.3	529.4	530.9	525.5	530.2	534.8	540.2
25°	540.9	532.5	530.2	528.6	531.7	534.8	533.2	537.9	537.9	543.2	550.2
27.5°	576.3	577.1	572.5	554.0	547.9	540.9	544.0	556.3	570.9	582.5	584.8
30°	592.5	595.6	607.9	604.8	602.5	604.8	604.0	607.1	608.6	609.4	607.1
32.5°	607.1	605.6	600.2	614.0	659.4	694.1	661.0	615.6	605.6	602.5	605.6
35°	660.2	660.2	648.7	631.0	654.8	663.3	647.9	626.3	638.7	664.0	665.6
37.5°	728.7	718.7	723.3	721.0	694.8	676.4	703.3	717.1	719.4	718.7	726.4
40°	769.5	762.5	755.6	767.9	791.8	808.7	784.9	751.8	760.2	777.2	770.2
42.5°	862.6	844.9	846.4	834.1	833.3	827.9	822.6	824.9	837.2	856.4	859.5
45°	958.0	966.4	961.1	938.0	948.7	948.7	933.4	944.9	951.1	973.4	976.4
47.5°	1107.3	1103.4	1105.7	1084.9	1084.2	1089.6	1084.2	1084.9	1104.2	1102.6	1094.2
50°	1281.9	1292.7	1295.8	1285.8	1273.5	1271.2	1262.7	1273.5	1285.0	1285.8	1278.8
52.5°	1523.5	1535.1	1535.1	1538.2	1553.5	1545.8	1544.3	1545.1	1522.8	1507.4	1515.1
55°	1828.2	1832.1	1845.2	1872.1	1919.0	1925.2	1896.0	1882.9	1842.1	1817.5	1836.7
57.5°	2129.1	2144.5	2180.7	2250.7	2308.4	2371.5	2286.8	2200.7	2120.6	2081.4	2088.3
60°	2379.2	2401.5	2470.7	2568.5	2728.5	2786.2	2643.1	2495.4	2333.0	2213.0	2261.4
62.5°	2496.9	2531.5	2590.0	2787.8	3027.8	3110.9	2900.9	2632.3	2386.1	2270.7	2268.4
64°	2497.7	2503.1	2620.0	2833.2	3080.2	3241.0	2963.2	2632.3	2399.2	2256.8	2283.0
65°	2446.1	2468.4	2581.5	2791.6	3047.1	3251.7	2941.7	2596.2	2345.3	2234.5	2246.8
67.5°	2212.2	2211.4	2316.1	2524.6	2879.3	3129.4	2758.5	2393.8	2212.2	2092.2	2106.8
70°	1678.2	1705.1	1805.2	2061.4	2491.5	2759.3	2412.3	2034.5	1808.2	1712.1	1706.7
72.5°	1004.1	1039.5	1167.3	1479.7	1935.2	2260.7	1914.4	1505.1	1232.7	1080.3	1084.2
75°	457.8	484.0	571.7	826.4	1289.6	1652.8	1297.3	870.3	624.0	527.1	513.2
77.5°	128.5	144.7	193.1	379.3	707.9	991.1	727.9	419.4	272.4	226.2	221.6
80°	57.7	60.8	68.5	92.3	224.7	437.1	300.9	153.9	102.3	84.6	80.8
82.5°	31.5	33.9	44.6	47.7	63.9	116.2	99.3	72.3	61.6	49.2	47.7
85°	17.7	18.5	25.4	25.4	30.8	33.9	36.2	38.5	37.7	27.7	26.9
87.5°	5.4	6.2	7.7	7.7	7.7	7.7	12.3	16.9	18.5	13.1	13.1
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)