

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: P479850

Luminaire Tested: **IFLD-S-SA6C-827-U-5WQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479850
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-827-U-5WQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5WQ distribution lens
Light Source: (96) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

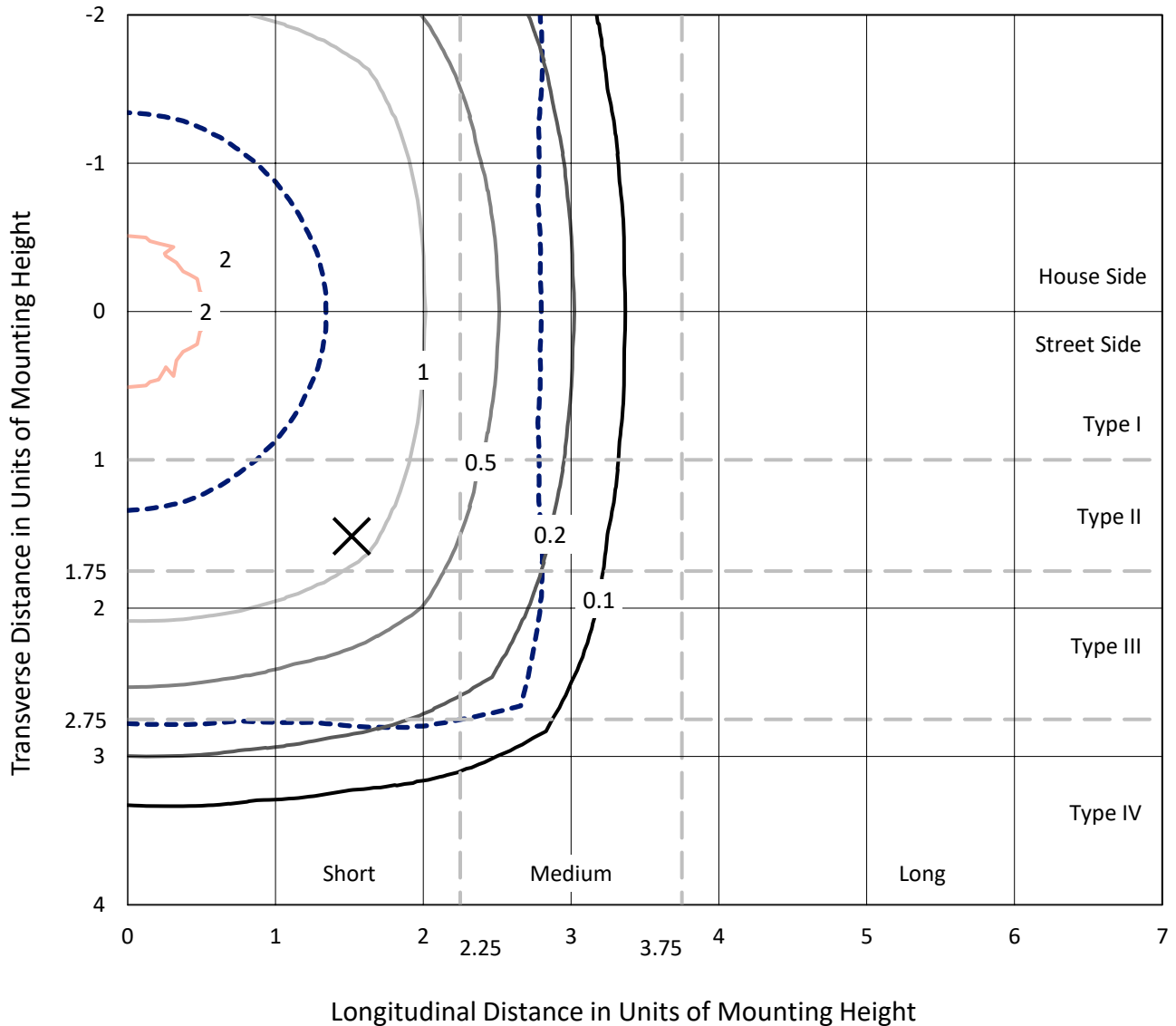
Lumens per Lamp: N/A
Luminaire Lumens: 31344.7 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 321.5
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

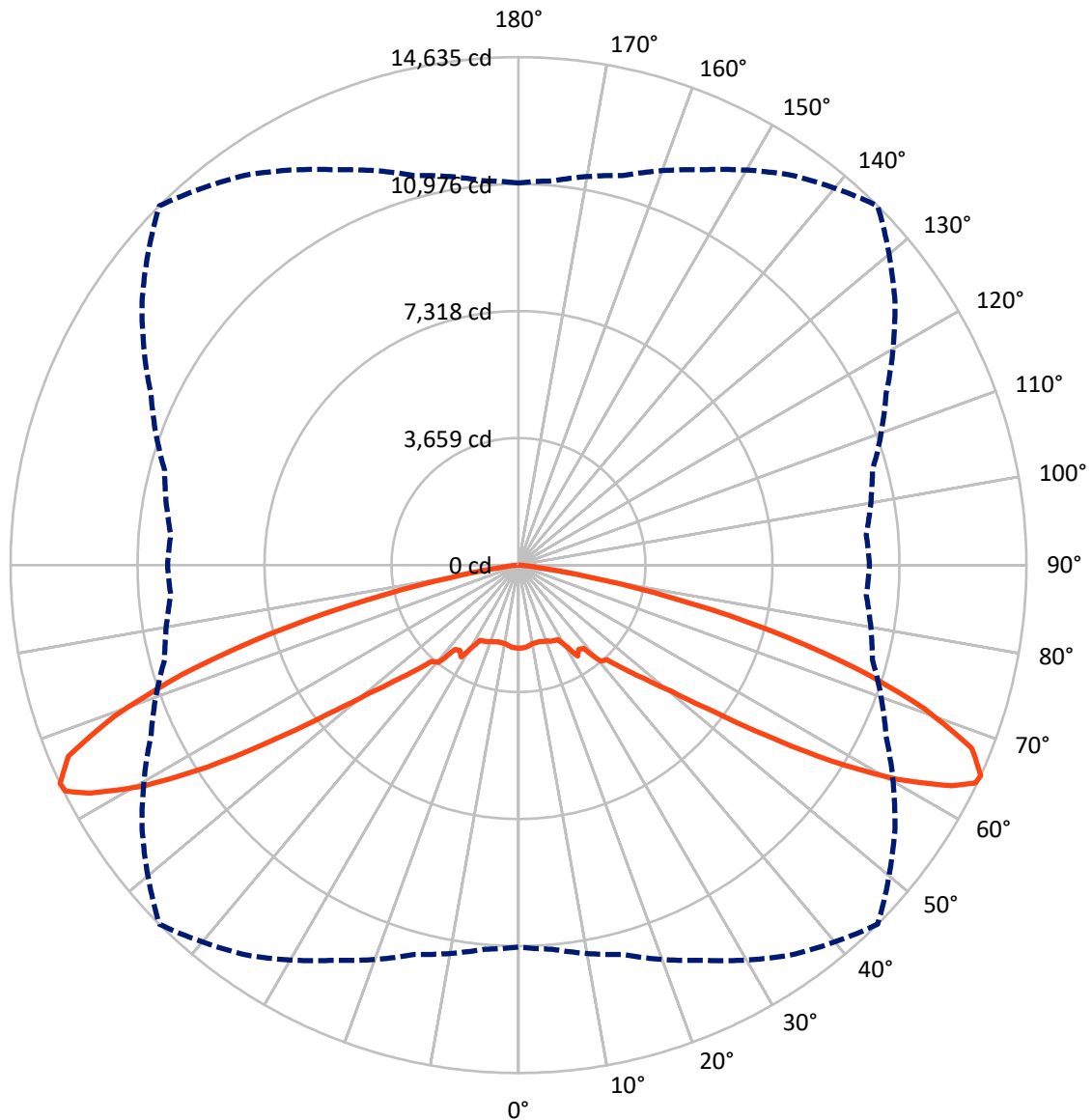
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 2.7 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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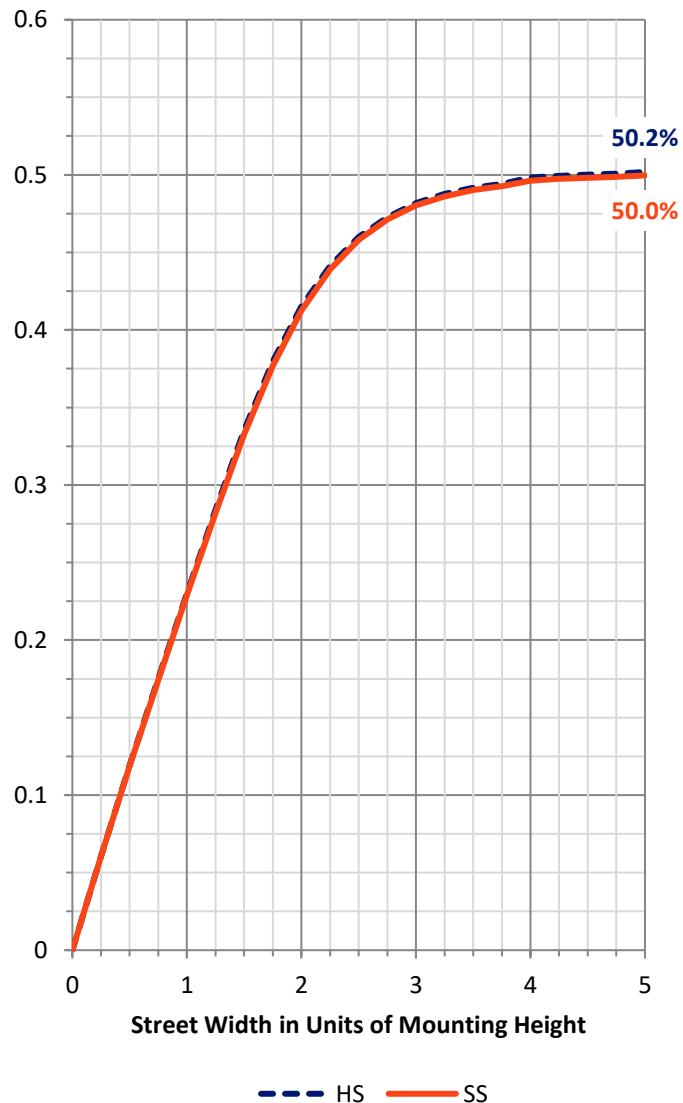
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15672.4	0.0	15672.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15672.4	0.0	15672.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	31344.7	0.0	31344.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.9	0.7
10°-20°	660.6	2.1
20°-30°	1143.5	3.6
30°-40°	1901.4	6.1
40°-50°	3430.4	10.9
50°-60°	7641.8	24.4
60°-70°	11388.7	36.3
70°-80°	4719.6	15.1
80°-90°	233.8	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°	31344.7	100.0
0°-180°	31344.7	100.0

Coefficient of Utilization

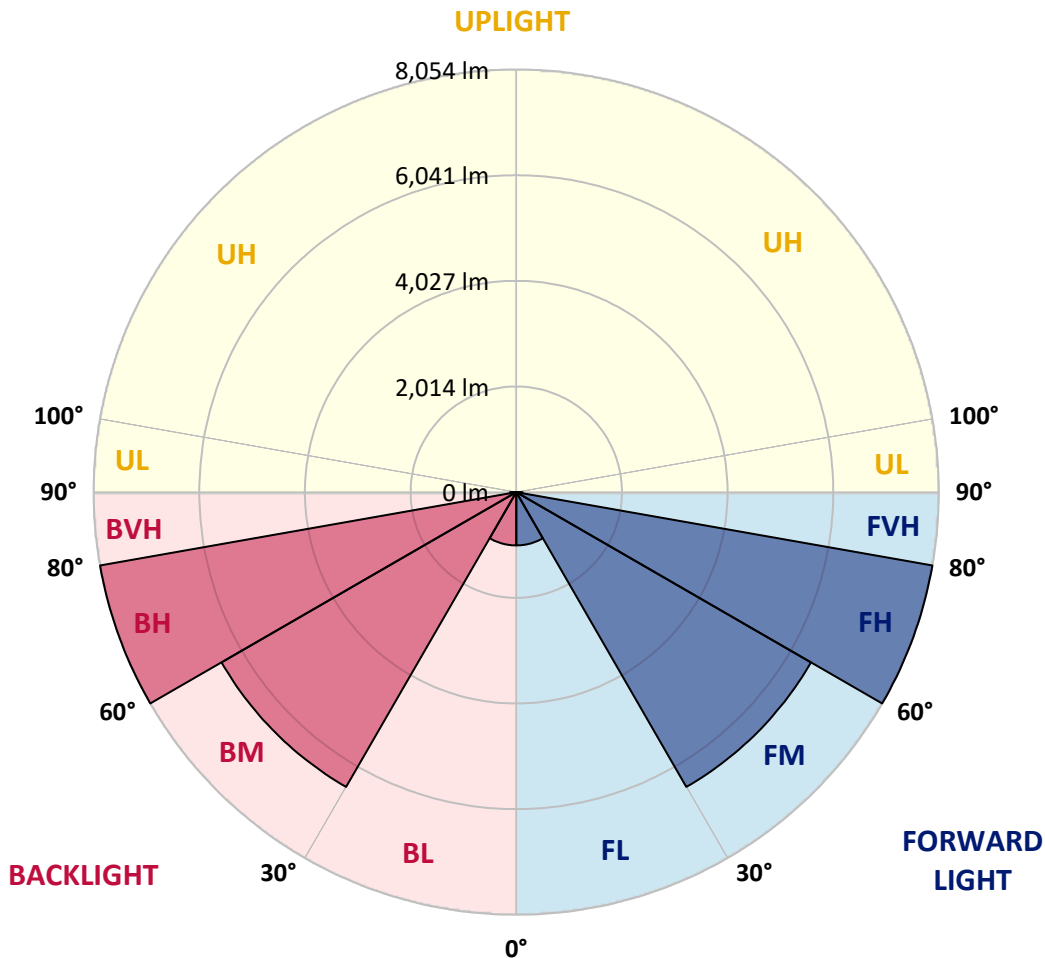


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1014.5	3.2			
FM (30°-60°)	6486.8	20.7			
FH (60°-80°)	8054.2	25.7			G4/12000
FVH (80°-90°)	116.9	0.4			G2/225
BL (0°-30°)	1014.5	3.2	B3/2500		
BM (30°-60°)	6486.8	20.7	B4/8500		
BH (60°-80°)	8054.2	25.7	B5		G4/12000
BVH (80°-90°)	116.9	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2396.5	2396.5	2396.5	2396.5	2396.5	2396.5	2396.5	2396.5	2396.5	2396.5	2396.5
2.5°	2368.8	2375.7	2372.3	2372.3	2382.6	2389.6	2393.0	2427.7	2413.8	2424.2	2413.8
5°	2375.7	2375.7	2382.6	2375.7	2382.6	2375.7	2382.6	2372.3	2382.6	2389.6	2400.0
7.5°	2361.9	2354.9	2344.5	2344.5	2341.1	2334.2	2323.8	2351.5	2337.6	2348.0	2365.3
10°	2365.3	2354.9	2320.3	2327.2	2296.1	2296.1	2303.0	2303.0	2334.2	2368.8	2379.2
12.5°	2365.3	2344.5	2334.2	2289.1	2289.1	2292.6	2309.9	2316.8	2337.6	2351.5	2386.1
15°	2365.3	2354.9	2337.6	2278.7	2292.6	2285.7	2303.0	2303.0	2348.0	2372.3	2389.6
17.5°	2379.2	2386.1	2354.9	2299.5	2303.0	2316.8	2306.5	2316.8	2372.3	2389.6	2413.8
20°	2382.6	2354.9	2344.5	2309.9	2341.1	2334.2	2330.7	2351.5	2368.8	2400.0	2427.7
22.5°	2375.7	2386.1	2344.5	2341.1	2368.8	2382.6	2389.6	2365.3	2386.1	2406.9	2431.1
25°	2434.6	2396.5	2386.1	2379.2	2393.0	2406.9	2400.0	2420.7	2420.7	2445.0	2476.1
27.5°	2593.9	2597.4	2576.6	2493.5	2465.8	2434.6	2448.4	2503.9	2569.7	2621.6	2632.0
30°	2666.6	2680.5	2735.9	2722.0	2711.6	2722.0	2718.6	2732.4	2739.3	2742.8	2732.4
32.5°	2732.4	2725.5	2701.3	2763.6	2967.9	3123.8	2974.8	2770.5	2725.5	2711.6	2725.5
35°	2971.4	2971.4	2919.4	2839.8	2947.1	2985.2	2916.0	2819.0	2874.4	2988.7	2995.6
37.5°	3279.6	3234.6	3255.4	3245.0	3127.2	3044.1	3165.3	3227.7	3238.0	3234.6	3269.2
40°	3463.1	3432.0	3400.8	3456.2	3563.6	3639.8	3532.4	3383.5	3421.6	3497.8	3466.6
42.5°	3882.2	3802.5	3809.5	3754.1	3750.6	3726.3	3702.1	3712.5	3767.9	3854.5	3868.3
45°	4311.6	4349.7	4325.5	4221.6	4270.1	4270.1	4200.8	4252.7	4280.4	4380.9	4394.7
47.5°	4983.5	4966.2	4976.5	4883.0	4879.6	4903.8	4879.6	4883.0	4969.6	4962.7	4924.6
50°	5769.6	5818.1	5831.9	5786.9	5731.5	5721.1	5683.0	5731.5	5783.5	5786.9	5755.7
52.5°	6857.0	6909.0	6909.0	6922.8	6992.1	6957.5	6950.5	6954.0	6853.6	6784.3	6818.9
55°	8228.4	8245.8	8304.6	8425.8	8637.1	8664.8	8533.2	8474.3	8290.8	8180.0	8266.5
57.5°	9582.5	9651.8	9814.6	10129.7	10389.4	10673.4	10292.5	9904.6	9544.4	9367.8	9399.0
60°	10708.0	10808.5	11120.2	11560.0	12280.3	12540.1	11895.9	11231.0	10500.3	9960.0	10178.2
62.5°	11237.9	11393.7	11656.9	12547.0	13627.5	14001.5	13056.1	11847.4	10739.2	10219.7	10209.4
64°	11241.4	11265.6	11792.0	12751.3	13863.0	14586.8	13336.6	11847.4	10798.1	10157.4	10275.2
65°	11009.3	11109.8	11618.9	12564.3	13714.1	14635.3	13239.6	11684.7	10555.7	10057.0	10112.4
67.5°	9956.5	9953.1	10424.1	11362.6	12959.1	14084.6	12415.4	10773.8	9956.5	9416.3	9482.1
70°	7553.1	7674.3	8124.5	9277.8	11213.7	12418.8	10857.0	9156.6	8138.4	7705.5	7681.3
72.5°	4519.4	4678.7	5253.6	6659.6	8709.8	10174.7	8616.3	6773.9	5548.0	4862.3	4879.6
75°	2060.6	2178.3	2573.1	3719.4	5804.2	7438.8	5838.9	3916.8	2808.6	2372.3	2309.9
77.5°	578.3	651.1	869.2	1707.3	3186.1	4460.5	3276.1	1887.4	1226.0	1018.2	997.4
80°	259.7	273.6	308.2	415.6	1011.2	1967.1	1354.1	692.6	460.6	380.9	363.6
82.5°	142.0	152.4	200.9	214.7	287.4	522.9	446.7	325.5	277.1	221.6	214.7
85°	79.7	83.1	114.3	114.3	138.5	152.4	162.8	173.2	169.7	124.7	121.2
87.5°	24.2	27.7	34.6	34.6	34.6	34.6	55.4	76.2	83.1	58.9	58.9
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)