

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: P479859

Luminaire Tested: **IFLD-L-SA7B-827-U-5WQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479859
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-827-U-5WQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5WQ distribution lens
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

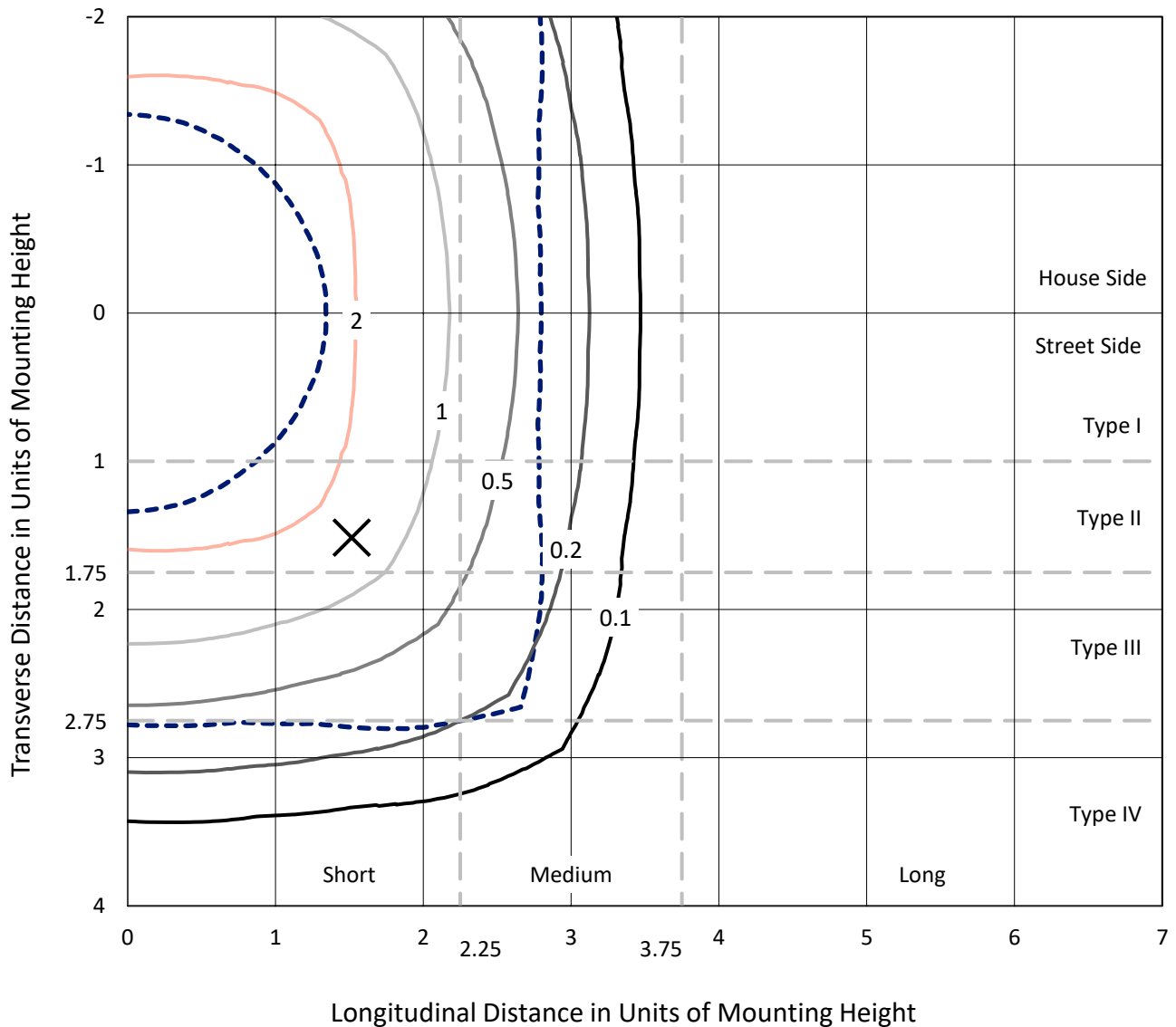
Lumens per Lamp: N/A
Luminaire Lumens: 26864.1 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 281
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

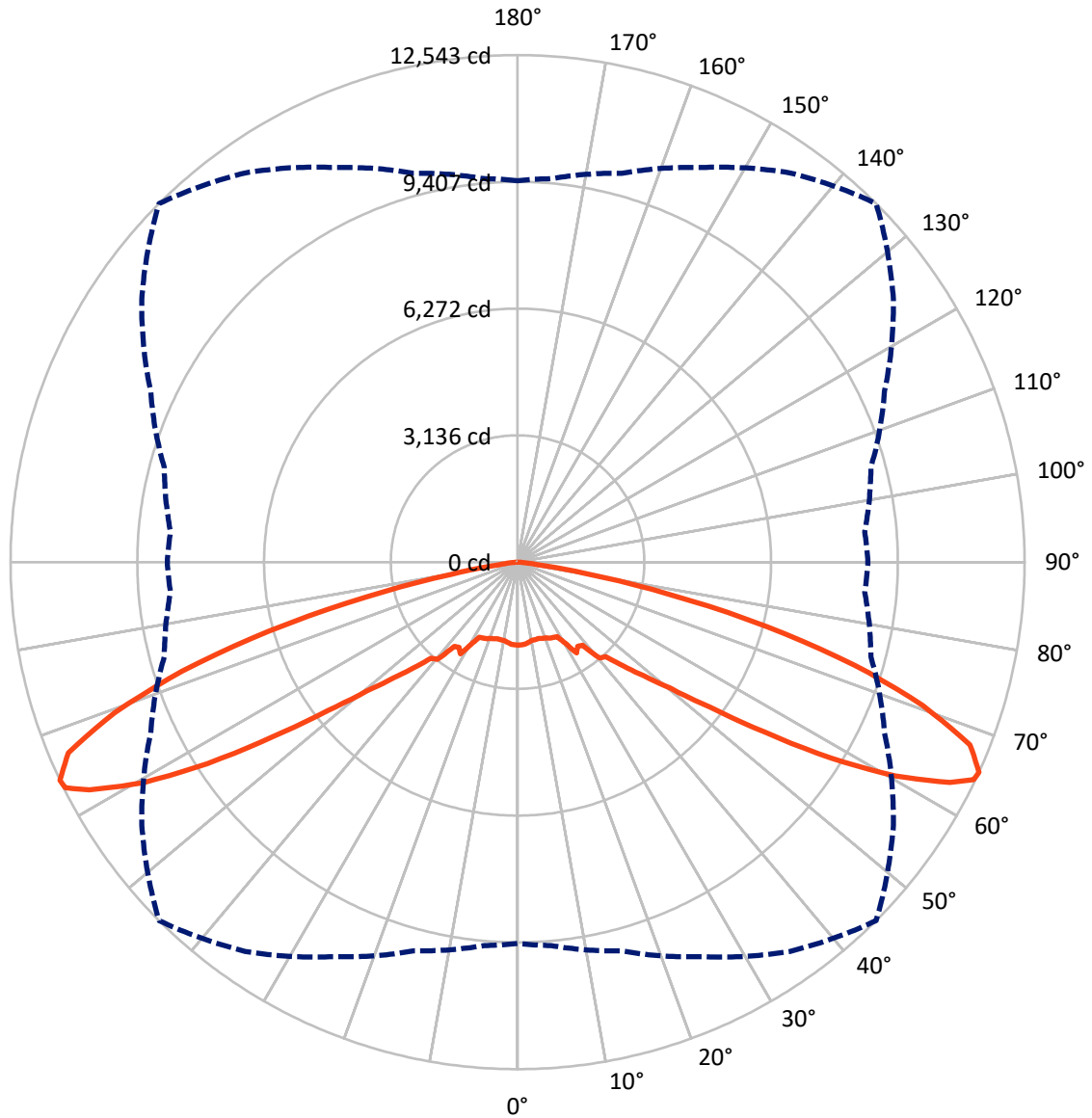
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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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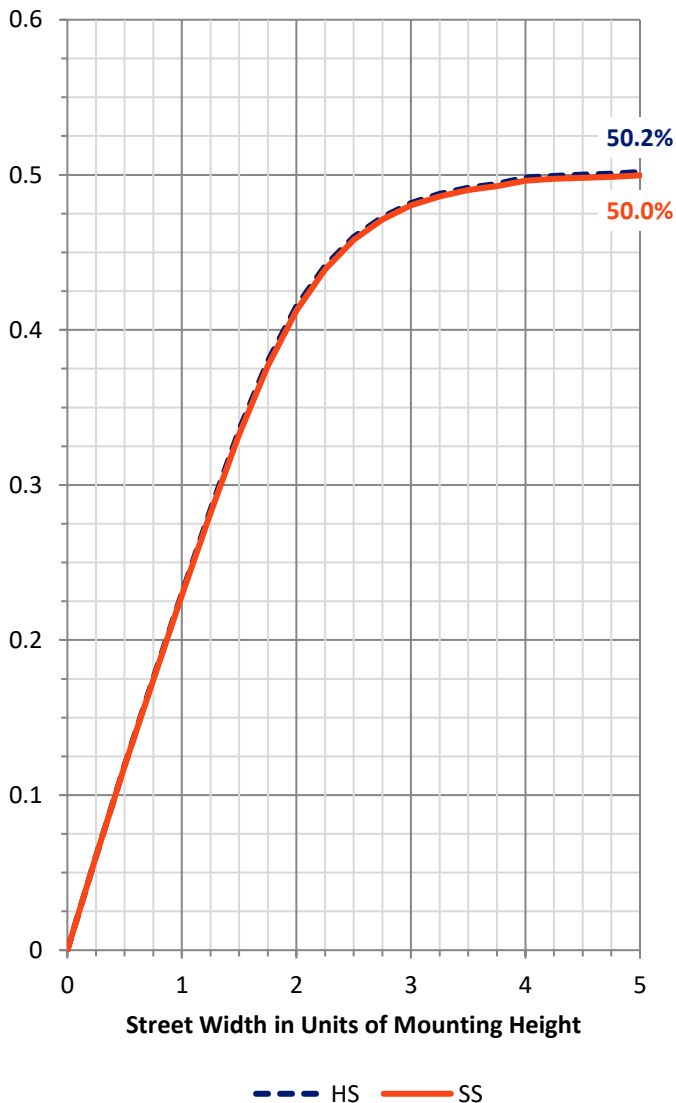
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13432.0	0.0	13432.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13432.0	0.0	13432.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	26864.1	0.0	26864.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.7	0.7
10°-20°	566.2	2.1
20°-30°	980.0	3.6
30°-40°	1629.6	6.1
40°-50°	2940.0	10.9
50°-60°	6549.4	24.4
60°-70°	9760.7	36.3
70°-80°	4045.0	15.1
80°-90°	200.3	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°	26864.1	100.0
0°-180°	26864.1	100.0



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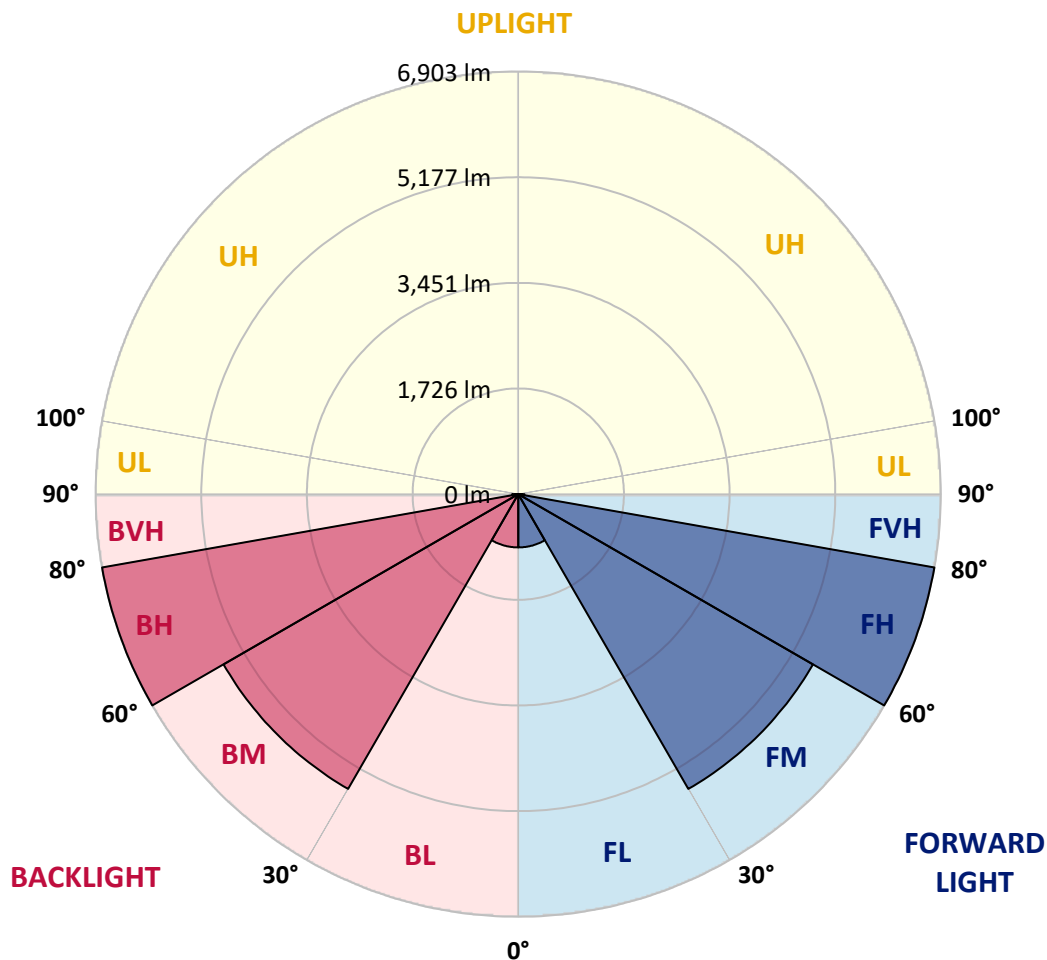
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	869.5	3.2			
FM (30°-60°)	5559.5	20.7			
FH (60°-80°)	6902.9	25.7			G3/7500
FVH (80°-90°)	100.2	0.4			G2/225
BL (0°-30°)	869.5	3.2	B2/1000		
BM (30°-60°)	5559.5	20.7	B4/8500		
BH (60°-80°)	6902.9	25.7	B5		G3/7500
BVH (80°-90°)	100.2	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-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2053.9	2053.9	2053.9	2053.9	2053.9	2053.9	2053.9	2053.9	2053.9	2053.9	2053.9
2.5°	2030.2	2036.1	2033.1	2033.1	2042.1	2048.0	2051.0	2080.6	2068.8	2077.7	2068.8
5°	2036.1	2036.1	2042.1	2036.1	2042.1	2036.1	2042.1	2033.1	2042.1	2048.0	2056.9
7.5°	2024.2	2018.3	2009.4	2009.4	2006.4	2000.5	1991.6	2015.3	2003.5	2012.4	2027.2
10°	2027.2	2018.3	1988.6	1994.6	1967.8	1967.8	1973.8	1973.8	2000.5	2030.2	2039.1
12.5°	2027.2	2009.4	2000.5	1961.9	1961.9	1964.9	1979.7	1985.7	2003.5	2015.3	2045.0
15°	2027.2	2018.3	2003.5	1953.0	1964.9	1958.9	1973.8	1973.8	2012.4	2033.1	2048.0
17.5°	2039.1	2045.0	2018.3	1970.8	1973.8	1985.7	1976.8	1985.7	2033.1	2048.0	2068.8
20°	2042.1	2018.3	2009.4	1979.7	2006.4	2000.5	1997.5	2015.3	2030.2	2056.9	2080.6
22.5°	2036.1	2045.0	2009.4	2006.4	2030.2	2042.1	2048.0	2027.2	2045.0	2062.8	2083.6
25°	2086.6	2053.9	2045.0	2039.1	2051.0	2062.8	2056.9	2074.7	2074.7	2095.5	2122.2
27.5°	2223.1	2226.1	2208.3	2137.0	2113.3	2086.6	2098.4	2145.9	2202.3	2246.8	2255.8
30°	2285.4	2297.3	2344.8	2332.9	2324.0	2332.9	2330.0	2341.8	2347.8	2350.7	2341.8
32.5°	2341.8	2335.9	2315.1	2368.5	2543.7	2677.2	2549.6	2374.5	2335.9	2324.0	2335.9
35°	2546.6	2546.6	2502.1	2433.8	2525.9	2558.5	2499.1	2416.0	2463.5	2561.5	2567.4
37.5°	2810.8	2772.2	2790.0	2781.1	2680.2	2609.0	2712.8	2766.3	2775.2	2772.2	2801.9
40°	2968.1	2941.4	2914.7	2962.2	3054.2	3119.5	3027.5	2899.8	2932.5	2997.8	2971.1
42.5°	3327.2	3259.0	3264.9	3217.4	3214.4	3193.7	3172.9	3181.8	3229.3	3303.5	3315.4
45°	3695.3	3727.9	3707.2	3618.1	3659.7	3659.7	3600.3	3644.8	3668.6	3754.6	3766.5
47.5°	4271.1	4256.3	4265.2	4185.0	4182.0	4202.8	4182.0	4185.0	4259.2	4253.3	4220.6
50°	4944.8	4986.4	4998.3	4959.7	4912.2	4903.3	4870.6	4912.2	4956.7	4959.7	4933.0
52.5°	5876.8	5921.4	5921.4	5933.2	5992.6	5962.9	5957.0	5959.9	5873.9	5814.5	5844.2
55°	7052.2	7067.0	7117.5	7221.4	7402.4	7426.2	7313.4	7262.9	7105.6	7010.6	7084.8
57.5°	8212.7	8272.1	8411.6	8681.7	8904.3	9147.7	8821.2	8488.8	8180.1	8028.7	8055.4
60°	9177.4	9263.4	9530.6	9907.5	10524.9	10747.5	10195.4	9625.5	8999.3	8536.2	8723.2
62.5°	9631.5	9765.0	9990.6	10753.4	11679.5	12000.0	11189.7	10153.9	9204.1	8758.9	8749.9
64°	9634.4	9655.2	10106.4	10928.5	11881.3	12501.6	11430.1	10153.9	9254.5	8705.4	8806.3
65°	9435.6	9521.7	9958.0	10768.3	11753.7	12543.2	11347.0	10014.4	9046.8	8619.4	8666.8
67.5°	8533.3	8530.3	8934.0	9738.3	11106.6	12071.3	10640.6	9233.7	8533.3	8070.3	8126.6
70°	6473.4	6577.3	6963.2	7951.5	9610.7	10643.6	9305.0	7847.6	6975.0	6604.0	6583.2
72.5°	3873.4	4009.9	4502.6	5707.7	7464.8	8720.3	7384.6	5805.6	4754.9	4167.2	4182.0
75°	1766.0	1866.9	2205.3	3187.7	4974.5	6375.5	5004.2	3356.9	2407.1	2033.1	1979.7
77.5°	495.7	558.0	745.0	1463.3	2730.6	3822.9	2807.8	1617.6	1050.7	872.6	854.8
80°	222.6	234.5	264.2	356.2	866.7	1685.9	1160.5	593.6	394.8	326.5	311.7
82.5°	121.7	130.6	172.1	184.0	246.4	448.2	382.9	279.0	237.4	190.0	184.0
85°	68.3	71.2	97.9	97.9	118.7	130.6	139.5	148.4	145.4	106.9	103.9
87.5°	20.8	23.7	29.7	29.7	29.7	29.7	47.5	65.3	71.2	50.5	50.5
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)