

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: P479863

Luminaire Tested: **IFLD-L-SA8A-827-U-5WQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479863
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-827-U-5WQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5WQ distribution lens
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

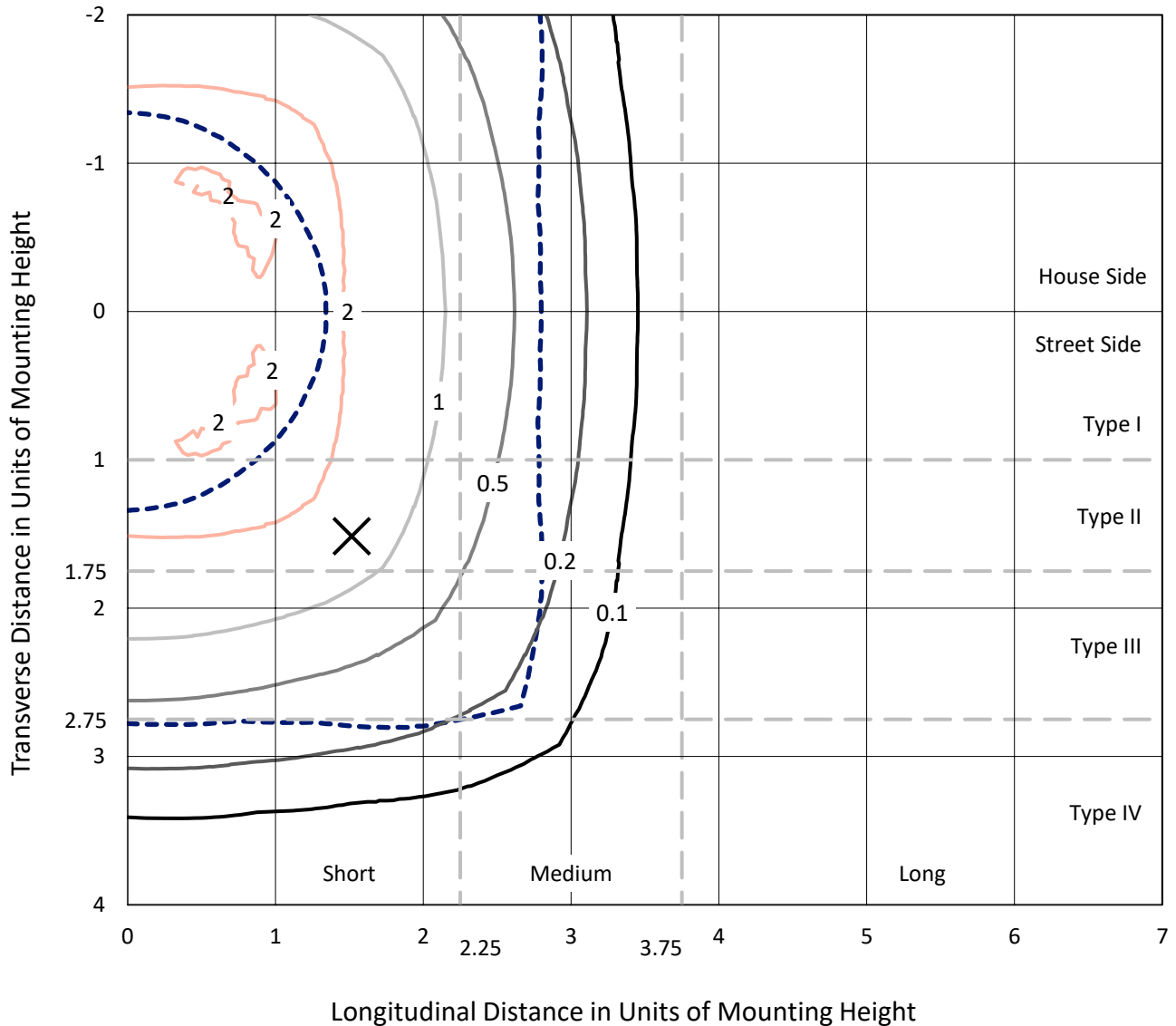
Lumens per Lamp: N/A
Luminaire Lumens: 25841.3 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 247.8
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

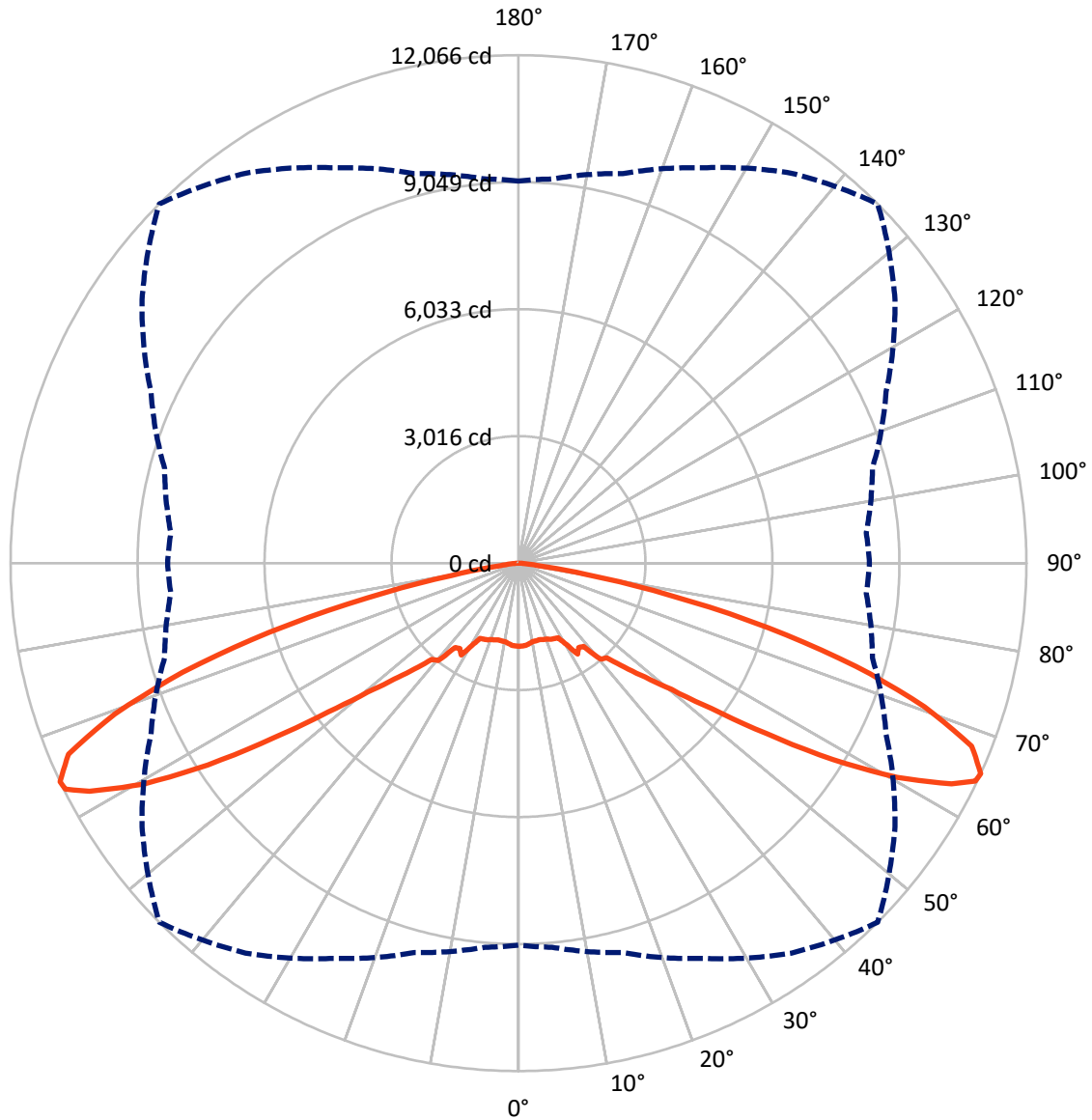
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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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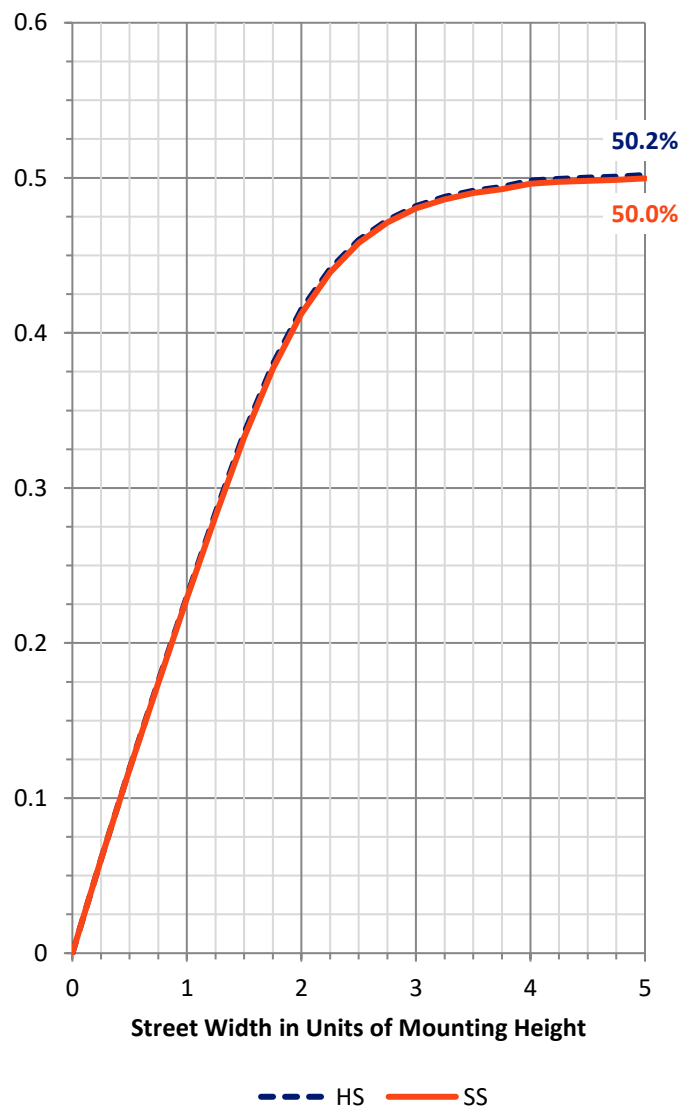
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12920.6	0.0	12920.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12920.6	0.0	12920.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	25841.3	0.0	25841.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.4	0.7
10°-20°	544.6	2.1
20°-30°	942.7	3.6
30°-40°	1567.5	6.1
40°-50°	2828.1	10.9
50°-60°	6300.1	24.4
60°-70°	9389.1	36.3
70°-80°	3891.0	15.1
80°-90°	192.7	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°	25841.3	100.0
0°-180°	25841.3	100.0

Coefficient of Utilization



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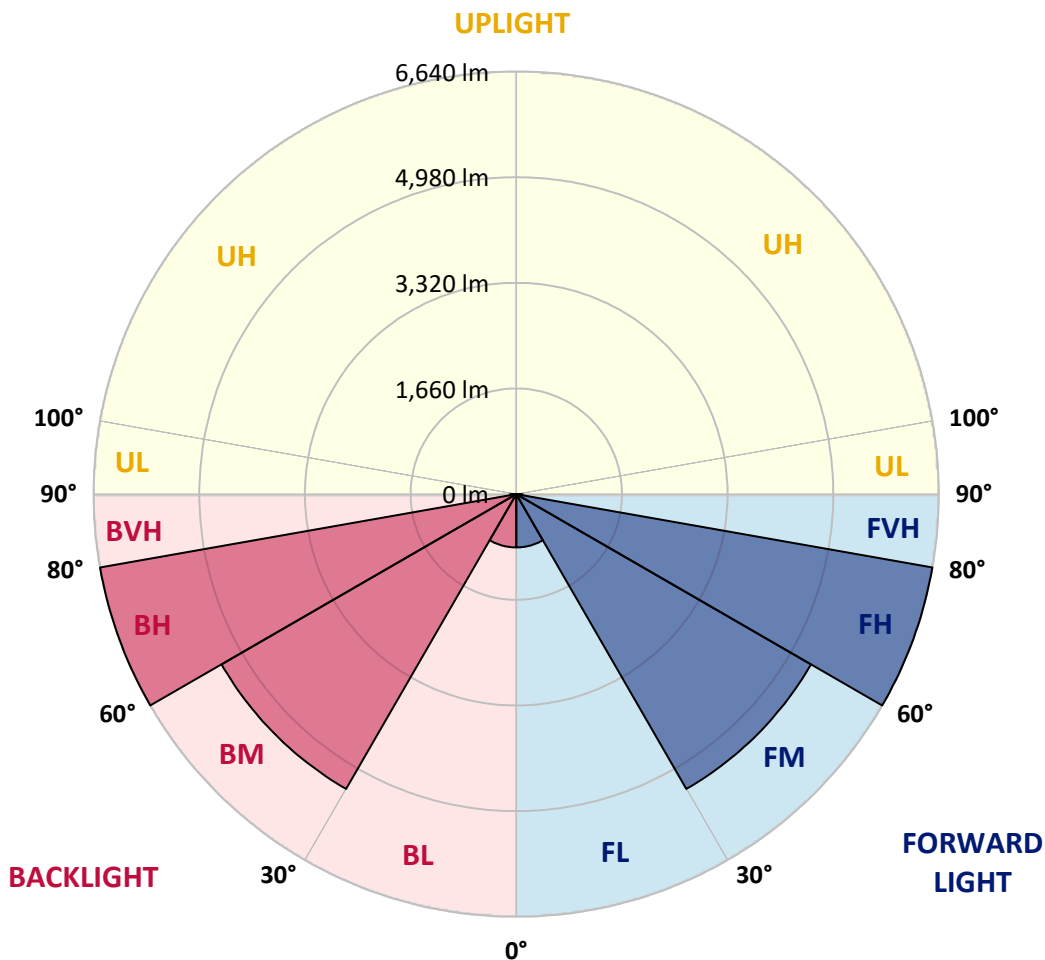
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	836.4	3.2			
FM (30°-60°)	5347.9	20.7			
FH (60°-80°)	6640.1	25.7			G3/7500
FVH (80°-90°)	96.4	0.4			G1/100
BL (0°-30°)	836.4	3.2	B2/1000		
BM (30°-60°)	5347.9	20.7	B4/8500		
BH (60°-80°)	6640.1	25.7	B5		G3/7500
BVH (80°-90°)	96.4	0.4			G1/100
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°	1975.7	1975.7	1975.7	1975.7	1975.7	1975.7	1975.7	1975.7	1975.7	1975.7	1975.7
2.5°	1952.9	1958.6	1955.7	1955.7	1964.3	1970.0	1972.9	2001.4	1990.0	1998.6	1990.0
5°	1958.6	1958.6	1964.3	1958.6	1964.3	1958.6	1964.3	1955.7	1964.3	1970.0	1978.6
7.5°	1947.2	1941.5	1932.9	1932.9	1930.0	1924.3	1915.8	1938.6	1927.2	1935.8	1950.0
10°	1950.0	1941.5	1912.9	1918.6	1892.9	1892.9	1898.6	1898.6	1924.3	1952.9	1961.4
12.5°	1950.0	1932.9	1924.3	1887.2	1887.2	1890.1	1904.3	1910.1	1927.2	1938.6	1967.2
15°	1950.0	1941.5	1927.2	1878.7	1890.1	1884.4	1898.6	1898.6	1935.8	1955.7	1970.0
17.5°	1961.4	1967.2	1941.5	1895.8	1898.6	1910.1	1901.5	1910.1	1955.7	1970.0	1990.0
20°	1964.3	1941.5	1932.9	1904.3	1930.0	1924.3	1921.5	1938.6	1952.9	1978.6	2001.4
22.5°	1958.6	1967.2	1932.9	1930.0	1952.9	1964.3	1970.0	1950.0	1967.2	1984.3	2004.3
25°	2007.1	1975.7	1967.2	1961.4	1972.9	1984.3	1978.6	1995.7	1995.7	2015.7	2041.4
27.5°	2138.5	2141.3	2124.2	2055.7	2032.8	2007.1	2018.6	2064.2	2118.5	2161.3	2169.9
30°	2198.4	2209.8	2255.5	2244.1	2235.5	2244.1	2241.2	2252.7	2258.4	2261.2	2252.7
32.5°	2252.7	2247.0	2227.0	2278.4	2446.8	2575.3	2452.5	2284.1	2247.0	2235.5	2247.0
35°	2449.7	2449.7	2406.8	2341.2	2429.7	2461.1	2404.0	2324.0	2369.7	2463.9	2469.7
37.5°	2703.8	2666.7	2683.8	2675.2	2578.1	2509.6	2609.6	2660.9	2669.5	2666.7	2695.2
40°	2855.1	2829.4	2803.7	2849.4	2937.9	3000.7	2912.2	2789.4	2820.8	2883.6	2857.9
42.5°	3200.6	3134.9	3140.6	3094.9	3092.1	3072.1	3052.1	3060.7	3106.3	3177.7	3189.1
45°	3554.6	3586.0	3566.0	3480.4	3520.3	3520.3	3463.2	3506.1	3528.9	3611.7	3623.1
47.5°	4108.5	4094.2	4102.8	4025.7	4022.8	4042.8	4022.8	4025.7	4097.1	4091.3	4059.9
50°	4756.6	4796.6	4808.0	4770.9	4725.2	4716.6	4685.2	4725.2	4768.0	4770.9	4745.2
52.5°	5653.1	5695.9	5695.9	5707.3	5764.4	5735.9	5730.2	5733.0	5650.2	5593.1	5621.7
55°	6783.7	6798.0	6846.5	6946.4	7120.6	7143.4	7035.0	6986.4	6835.1	6743.7	6815.1
57.5°	7900.0	7957.1	8091.3	8351.1	8565.3	8799.4	8485.3	8165.6	7868.6	7723.0	7748.7
60°	8828.0	8910.7	9167.7	9530.3	10124.2	10338.3	9807.2	9259.1	8656.6	8211.3	8391.1
62.5°	9264.8	9393.3	9610.2	10344.0	11234.8	11543.1	10763.7	9767.3	8853.6	8425.4	8416.8
64°	9267.6	9287.6	9721.6	10512.5	11428.9	12025.7	10995.0	9767.3	8902.2	8374.0	8471.1
65°	9076.3	9159.1	9578.8	10358.3	11306.2	12065.6	10915.0	9633.1	8702.3	8291.2	8336.9
67.5°	8208.4	8205.5	8593.8	9367.6	10683.8	11611.7	10235.5	8882.2	8208.4	7763.0	7817.2
70°	6227.0	6326.9	6698.1	7648.8	9244.8	10238.4	8950.7	7548.9	6709.5	6352.6	6332.6
72.5°	3725.9	3857.2	4331.2	5490.3	7180.6	8388.3	7103.5	5584.6	4573.9	4008.6	4022.8
75°	1698.8	1795.9	2121.3	3066.4	4785.1	6132.7	4813.7	3229.1	2315.5	1955.7	1904.3
77.5°	476.8	536.8	716.6	1407.6	2626.7	3677.4	2700.9	1556.0	1010.7	839.4	822.3
80°	214.1	225.6	254.1	342.6	833.7	1621.7	1116.3	571.0	379.7	314.1	299.8
82.5°	117.1	125.6	165.6	177.0	237.0	431.1	368.3	268.4	228.4	182.7	177.0
85°	65.7	68.5	94.2	94.2	114.2	125.6	134.2	142.8	139.9	102.8	99.9
87.5°	20.0	22.8	28.6	28.6	28.6	28.6	45.7	62.8	68.5	48.5	48.5
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)