

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: P479849

Luminaire Tested: **IFLD-S-SA6B-827-U-5WQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479849
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-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

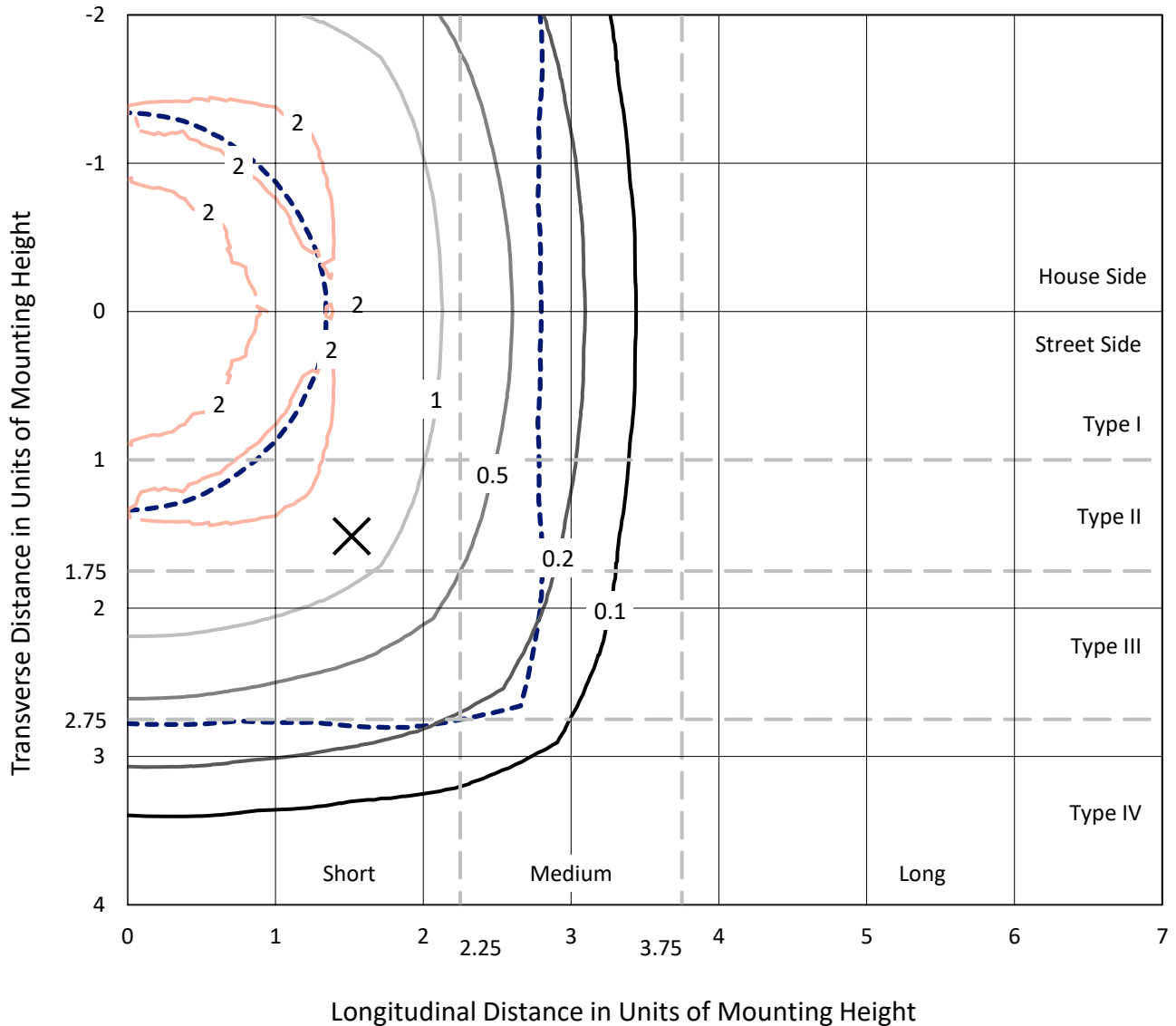
Lumens per Lamp: N/A
Luminaire Lumens: 25180.1 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 244.9
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

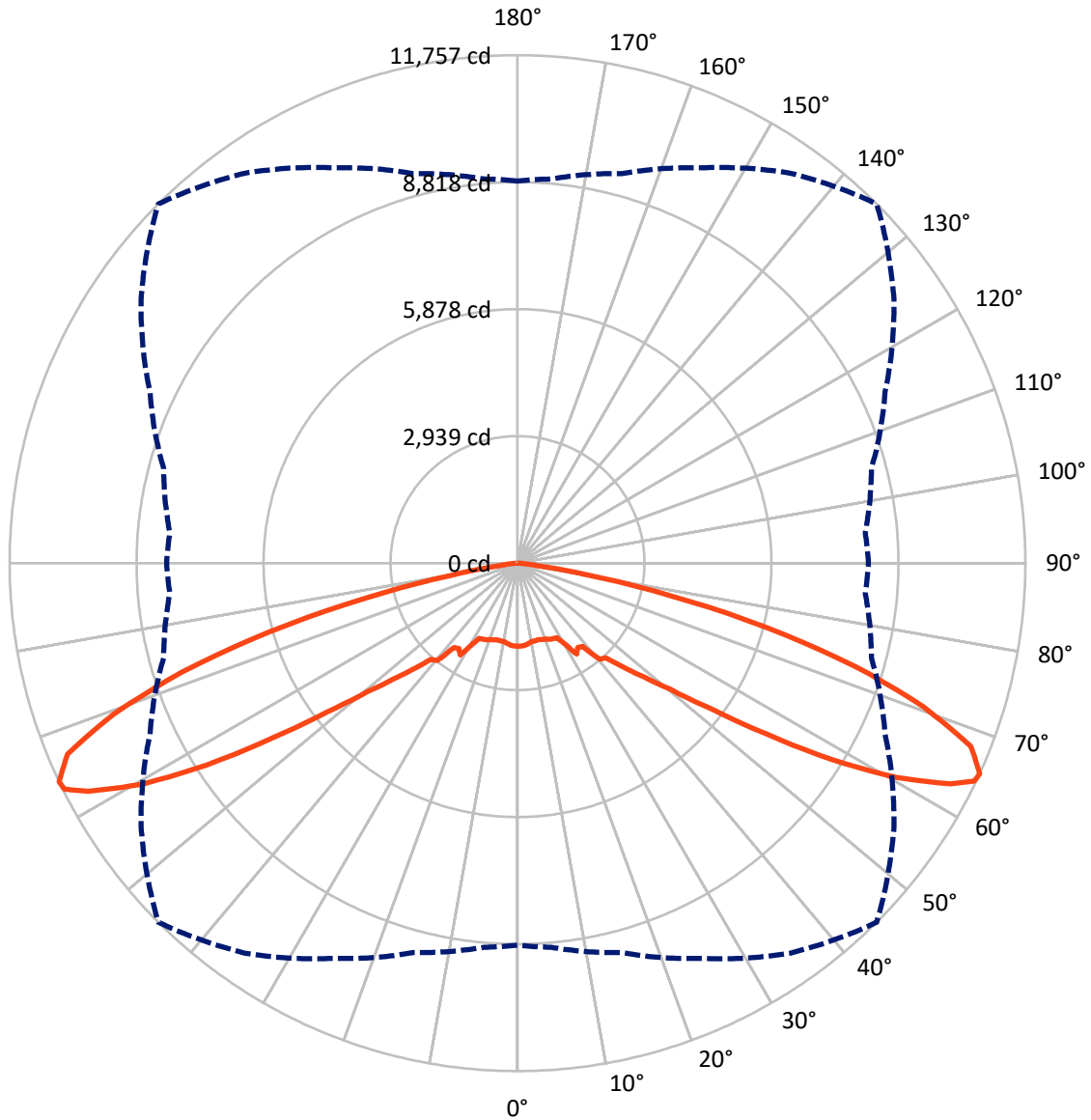
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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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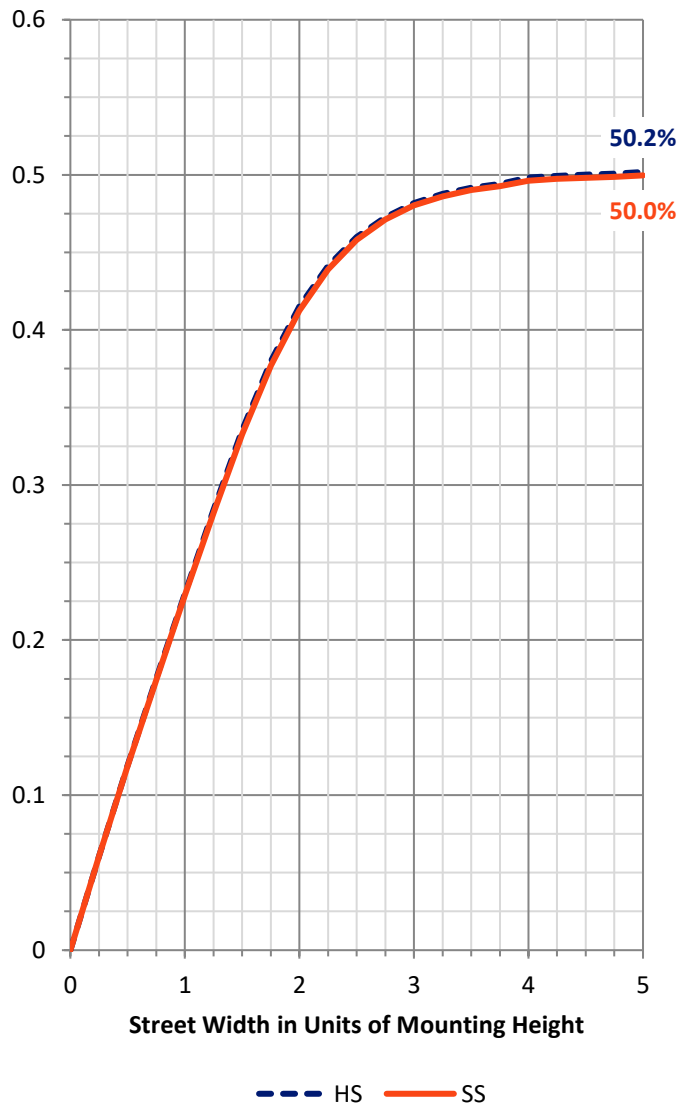
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12590.0	0.0	12590.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12590.0	0.0	12590.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	25180.1	0.0	25180.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.7	0.7
10°-20°	530.7	2.1
20°-30°	918.6	3.6
30°-40°	1527.4	6.1
40°-50°	2755.7	10.9
50°-60°	6138.9	24.4
60°-70°	9148.9	36.3
70°-80°	3791.4	15.1
80°-90°	187.8	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°	25180.1	100.0
0°-180°	25180.1	100.0

Coefficient of Utilization



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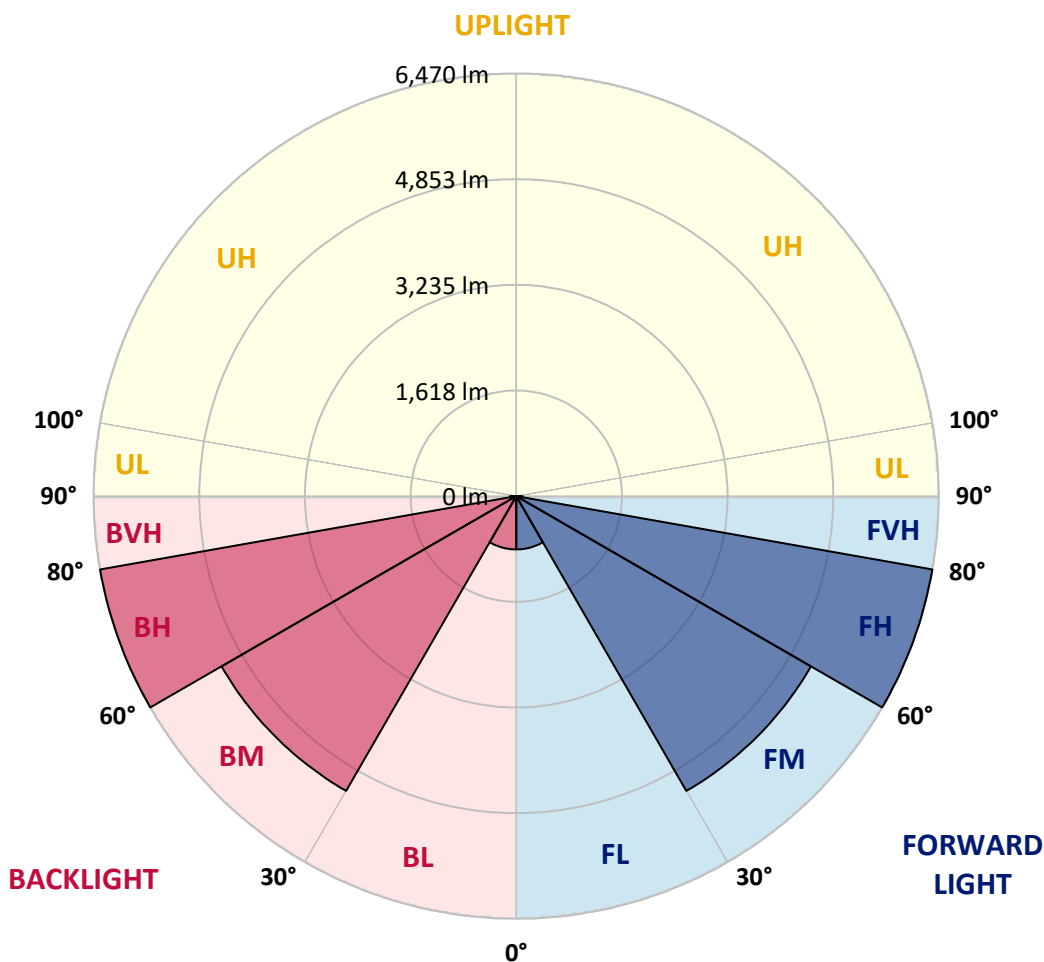
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	815.0	3.2			
FM (30°-60°)	5211.0	20.7			
FH (60°-80°)	6470.1	25.7			G3/7500
FVH (80°-90°)	93.9	0.4			G1/100
BL (0°-30°)	815.0	3.2	B2/1000		
BM (30°-60°)	5211.0	20.7	B4/8500		
BH (60°-80°)	6470.1	25.7	B5		G3/7500
BVH (80°-90°)	93.9	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°	1925.2	1925.2	1925.2	1925.2	1925.2	1925.2	1925.2	1925.2	1925.2	1925.2	1925.2
2.5°	1902.9	1908.5	1905.7	1905.7	1914.0	1919.6	1922.4	1950.2	1939.1	1947.4	1939.1
5°	1908.5	1908.5	1914.0	1908.5	1914.0	1908.5	1914.0	1905.7	1914.0	1919.6	1928.0
7.5°	1897.3	1891.8	1883.4	1883.4	1880.7	1875.1	1866.7	1889.0	1877.9	1886.2	1900.1
10°	1900.1	1891.8	1864.0	1869.5	1844.5	1844.5	1850.1	1850.1	1875.1	1902.9	1911.3
12.5°	1900.1	1883.4	1875.1	1838.9	1838.9	1841.7	1855.6	1861.2	1877.9	1889.0	1916.8
15°	1900.1	1891.8	1877.9	1830.6	1841.7	1836.1	1850.1	1850.1	1886.2	1905.7	1919.6
17.5°	1911.3	1916.8	1891.8	1847.3	1850.1	1861.2	1852.8	1861.2	1905.7	1919.6	1939.1
20°	1914.0	1891.8	1883.4	1855.6	1880.7	1875.1	1872.3	1889.0	1902.9	1928.0	1950.2
22.5°	1908.5	1916.8	1883.4	1880.7	1902.9	1914.0	1919.6	1900.1	1916.8	1933.5	1953.0
25°	1955.8	1925.2	1916.8	1911.3	1922.4	1933.5	1928.0	1944.6	1944.6	1964.1	1989.2
27.5°	2083.7	2086.5	2069.8	2003.1	1980.8	1955.8	1966.9	2011.4	2064.3	2106.0	2114.3
30°	2142.2	2153.3	2197.8	2186.7	2178.3	2186.7	2183.9	2195.0	2200.6	2203.4	2195.0
32.5°	2195.0	2189.5	2170.0	2220.1	2384.2	2509.4	2389.8	2225.6	2189.5	2178.3	2189.5
35°	2387.0	2387.0	2345.3	2281.3	2367.5	2398.1	2342.5	2264.6	2309.1	2400.9	2406.5
37.5°	2634.6	2598.4	2615.1	2606.8	2512.2	2445.4	2542.8	2592.9	2601.2	2598.4	2626.2
40°	2782.0	2757.0	2732.0	2776.5	2862.7	2923.9	2837.7	2718.0	2748.7	2809.9	2784.8
42.5°	3118.7	3054.7	3060.2	3015.7	3012.9	2993.5	2974.0	2982.3	3026.9	3096.4	3107.5
45°	3463.6	3494.2	3474.8	3391.3	3430.3	3430.3	3374.6	3416.3	3438.6	3519.3	3530.4
47.5°	4003.4	3989.4	3997.8	3922.7	3919.9	3939.4	3919.9	3922.7	3992.2	3986.7	3956.1
50°	4634.9	4673.8	4684.9	4648.8	4604.3	4595.9	4565.3	4604.3	4646.0	4648.8	4623.7
52.5°	5508.4	5550.2	5550.2	5561.3	5616.9	5589.1	5583.5	5586.3	5505.7	5450.0	5477.8
55°	6610.1	6624.0	6671.3	6768.7	6938.4	6960.7	6854.9	6807.6	6660.2	6571.2	6640.7
57.5°	7697.9	7753.5	7884.3	8137.5	8346.1	8574.2	8268.2	7956.6	7667.3	7525.4	7550.4
60°	8602.1	8682.7	8933.1	9286.4	9865.1	10073.8	9556.3	9022.1	8435.1	8001.1	8176.4
62.5°	9027.7	9152.9	9364.3	10079.3	10947.3	11247.8	10488.3	9517.3	8627.1	8209.8	8201.4
64°	9030.5	9050.0	9472.8	10243.5	11136.5	11717.9	10713.6	9517.3	8674.4	8159.7	8254.3
65°	8844.1	8924.8	9333.7	10093.2	11016.9	11756.9	10635.7	9386.6	8479.6	8079.0	8123.5
67.5°	7998.4	7995.6	8373.9	9127.9	10410.4	11314.5	9973.6	8654.9	7998.4	7564.4	7617.2
70°	6067.6	6165.0	6526.7	7453.1	9008.2	9976.4	8721.7	7355.7	6537.8	6190.0	6170.6
72.5°	3630.6	3758.5	4220.3	5349.9	6996.8	8173.6	6921.7	5441.7	4456.8	3906.0	3919.9
75°	1655.3	1749.9	2067.1	2987.9	4662.7	5975.8	4690.5	3146.5	2256.2	1905.7	1855.6
77.5°	464.6	523.0	698.3	1371.5	2559.5	3583.3	2631.8	1516.2	984.8	817.9	801.2
80°	208.7	219.8	247.6	333.8	812.4	1580.2	1087.8	556.4	370.0	306.0	292.1
82.5°	114.1	122.4	161.4	172.5	230.9	420.1	358.9	261.5	222.6	178.1	172.5
85°	64.0	66.8	91.8	91.8	111.3	122.4	130.8	139.1	136.3	100.2	97.4
87.5°	19.5	22.3	27.8	27.8	27.8	27.8	44.5	61.2	66.8	47.3	47.3
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)