

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: P479858

Luminaire Tested: **IFLD-L-SA7A-827-U-5WQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479858
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-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

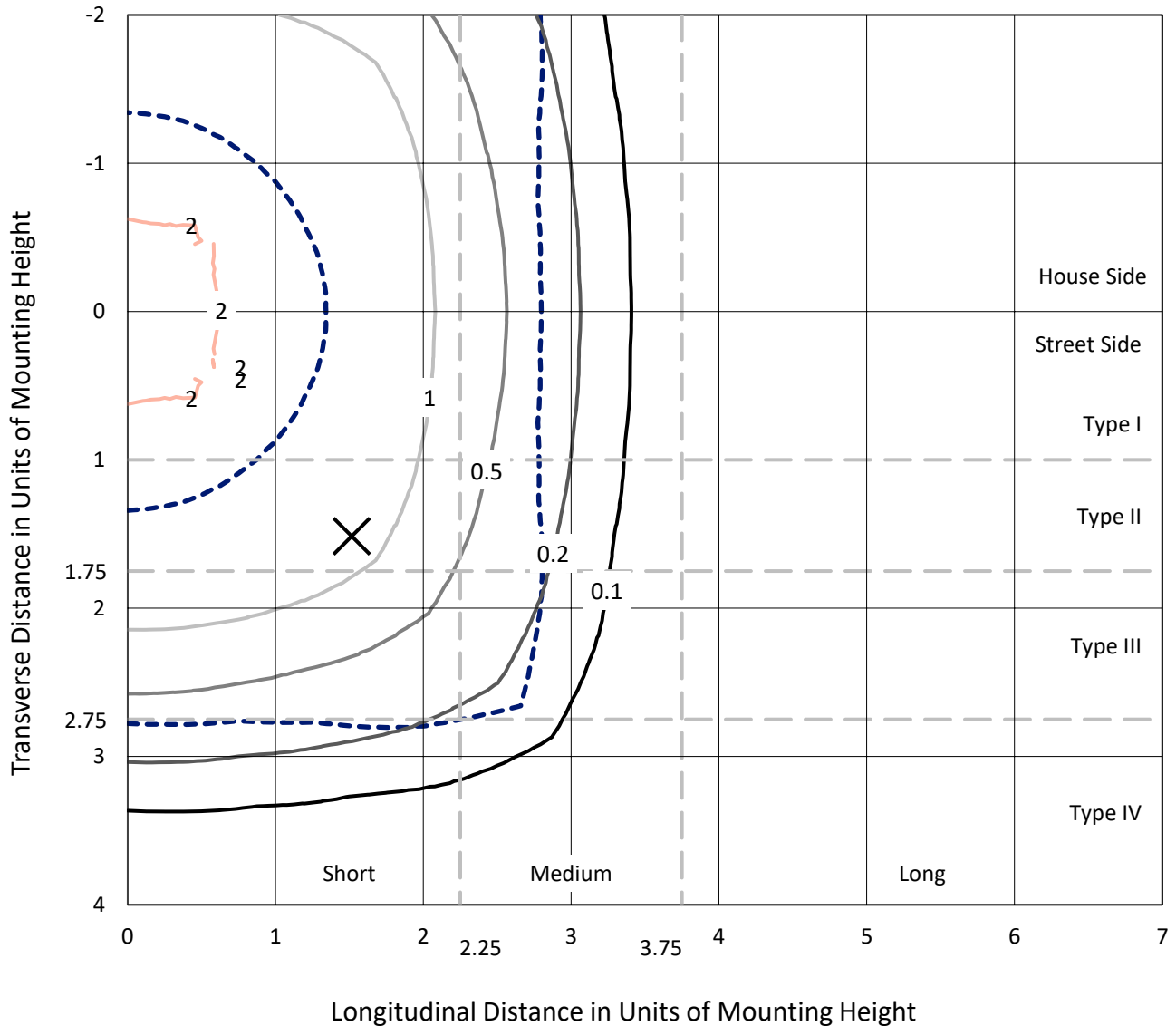
Lumens per Lamp: N/A
Luminaire Lumens: 23611.6 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 217.6
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

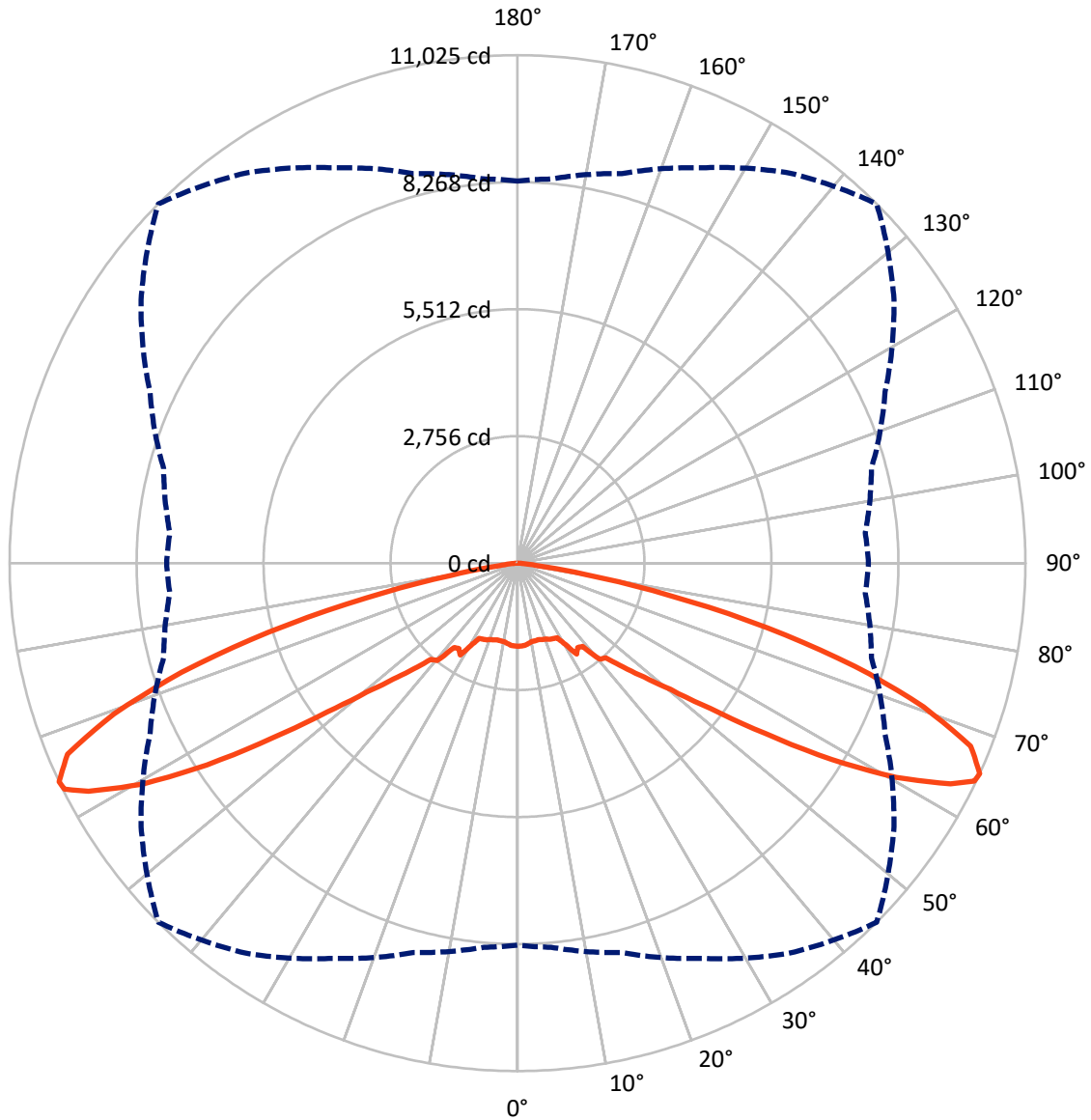
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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	11805.8	0.0	11805.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11805.8	0.0	11805.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	23611.6	0.0	23611.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.4	0.7
10°-20°	497.6	2.1
20°-30°	861.4	3.6
30°-40°	1432.3	6.1
40°-50°	2584.1	10.9
50°-60°	5756.5	24.4
60°-70°	8579.0	36.3
70°-80°	3555.2	15.1
80°-90°	176.1	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°	23611.6	100.0
0°-180°	23611.6	100.0

Coefficient of Utilization



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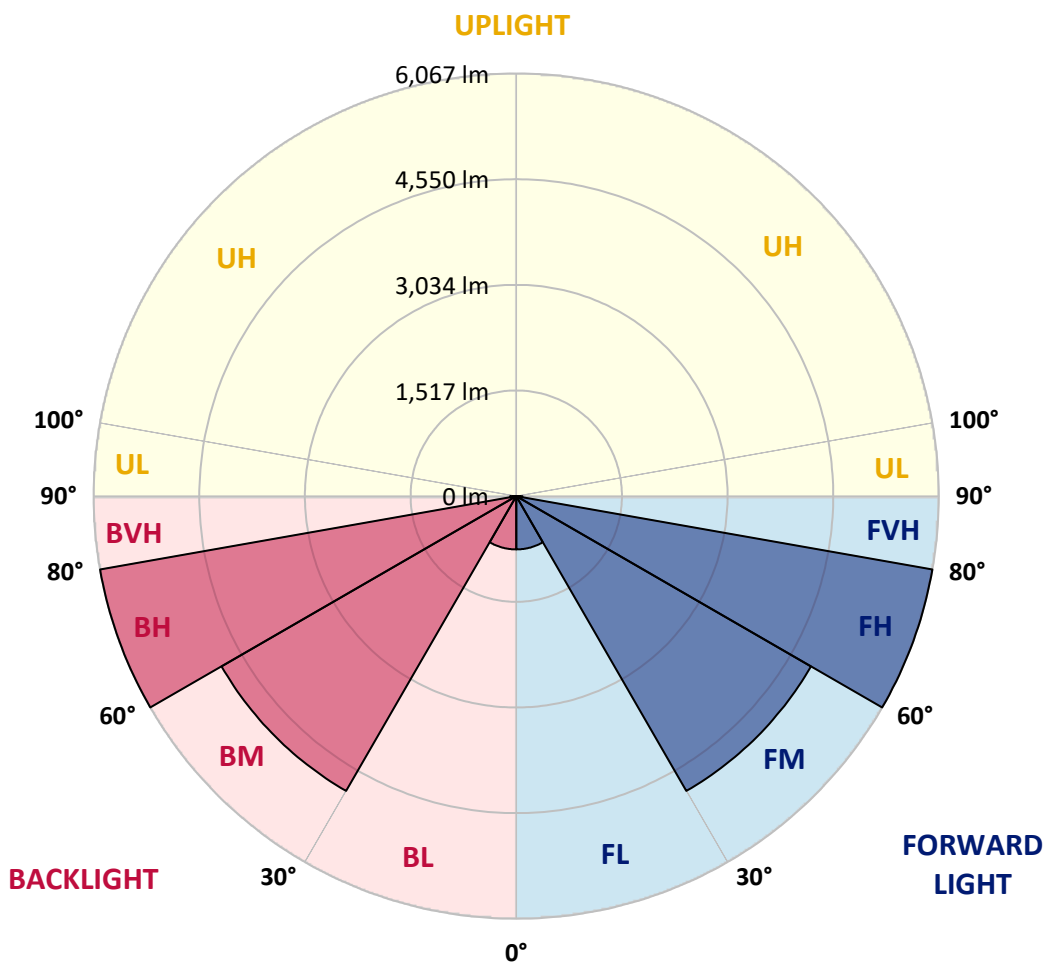
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	764.2	3.2			
FM (30°-60°)	4886.4	20.7			
FH (60°-80°)	6067.1	25.7			G3/7500
FVH (80°-90°)	88.0	0.4			G1/100
BL (0°-30°)	764.2	3.2	B2/1000		
BM (30°-60°)	4886.4	20.7	B3/5000		
BH (60°-80°)	6067.1	25.7	B5		G3/7500
BVH (80°-90°)	88.0	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	1805.3	1805.3	1805.3	1805.3	1805.3	1805.3	1805.3	1805.3	1805.3	1805.3	1805.3
2.5°	1784.4	1789.6	1787.0	1787.0	1794.8	1800.0	1802.6	1828.7	1818.3	1826.1	1818.3
5°	1789.6	1789.6	1794.8	1789.6	1794.8	1789.6	1794.8	1787.0	1794.8	1800.0	1807.9
7.5°	1779.2	1773.9	1766.1	1766.1	1763.5	1758.3	1750.5	1771.3	1760.9	1768.7	1781.8
10°	1781.8	1773.9	1747.9	1753.1	1729.6	1729.6	1734.8	1734.8	1758.3	1784.4	1792.2
12.5°	1781.8	1766.1	1758.3	1724.4	1724.4	1727.0	1740.0	1745.3	1760.9	1771.3	1797.4
15°	1781.8	1773.9	1760.9	1716.6	1727.0	1721.8	1734.8	1734.8	1768.7	1787.0	1800.0
17.5°	1792.2	1797.4	1773.9	1732.2	1734.8	1745.3	1737.4	1745.3	1787.0	1800.0	1818.3
20°	1794.8	1773.9	1766.1	1740.0	1763.5	1758.3	1755.7	1771.3	1784.4	1807.9	1828.7
22.5°	1789.6	1797.4	1766.1	1763.5	1784.4	1794.8	1800.0	1781.8	1797.4	1813.1	1831.3
25°	1834.0	1805.3	1797.4	1792.2	1802.6	1813.1	1807.9	1823.5	1823.5	1841.8	1865.3
27.5°	1954.0	1956.6	1940.9	1878.3	1857.4	1834.0	1844.4	1886.1	1935.7	1974.8	1982.6
30°	2008.7	2019.2	2060.9	2050.5	2042.7	2050.5	2047.9	2058.3	2063.5	2066.1	2058.3
32.5°	2058.3	2053.1	2034.8	2081.8	2235.7	2353.1	2240.9	2087.0	2053.1	2042.7	2053.1
35°	2238.3	2238.3	2199.2	2139.2	2220.0	2248.7	2196.6	2123.5	2165.3	2251.4	2256.6
37.5°	2470.5	2436.6	2452.2	2444.4	2355.7	2293.1	2384.4	2431.4	2439.2	2436.6	2462.7
40°	2608.7	2585.3	2561.8	2603.5	2684.4	2741.8	2660.9	2548.7	2577.4	2634.8	2611.4
42.5°	2924.4	2864.4	2869.6	2827.9	2825.3	2807.0	2788.8	2796.6	2838.3	2903.5	2914.0
45°	3247.9	3276.6	3258.3	3180.1	3216.6	3216.6	3164.4	3203.5	3224.4	3300.1	3310.5
47.5°	3754.0	3740.9	3748.8	3678.3	3675.7	3694.0	3675.7	3678.3	3743.6	3738.3	3709.6
50°	4346.2	4382.7	4393.1	4359.2	4317.5	4309.7	4281.0	4317.5	4356.6	4359.2	4335.7
52.5°	5165.3	5204.5	5204.5	5214.9	5267.1	5241.0	5235.8	5238.4	5162.7	5110.5	5136.6
55°	6198.4	6211.4	6255.8	6347.1	6506.2	6527.1	6428.0	6383.6	6245.3	6161.9	6227.1
57.5°	7218.4	7270.6	7393.2	7630.6	7826.2	8040.2	7753.2	7461.0	7189.7	7056.7	7080.1
60°	8066.3	8141.9	8376.7	8708.0	9250.6	9446.3	8961.1	8460.2	7909.7	7502.8	7667.1
62.5°	8465.4	8582.8	8781.0	9451.5	10265.4	10547.2	9835.0	8924.5	8089.7	7698.4	7690.6
64°	8468.0	8486.3	8882.8	9605.4	10442.8	10988.1	10046.3	8924.5	8134.1	7651.5	7740.2
65°	8293.2	8368.9	8752.4	9464.5	10330.6	11024.6	9973.2	8801.9	7951.5	7575.8	7617.5
67.5°	7500.2	7497.5	7852.3	8559.3	9761.9	10609.8	9352.4	8115.8	7500.2	7093.2	7142.8
70°	5689.7	5781.0	6120.1	6988.8	8447.1	9355.0	8178.4	6897.5	6130.6	5804.5	5786.2
72.5°	3404.4	3524.4	3957.5	5016.6	6561.0	7664.5	6490.6	5102.7	4179.2	3662.7	3675.7
75°	1552.2	1640.9	1938.3	2801.8	4372.3	5603.6	4398.4	2950.5	2115.7	1787.0	1740.0
77.5°	435.7	490.4	654.8	1286.1	2400.0	3360.1	2467.9	1421.8	923.5	767.0	751.3
80°	195.7	206.1	232.2	313.0	761.8	1481.8	1020.0	521.7	347.0	287.0	273.9
82.5°	107.0	114.8	151.3	161.7	216.5	393.9	336.5	245.2	208.7	167.0	161.7
85°	60.0	62.6	86.1	86.1	104.3	114.8	122.6	130.4	127.8	93.9	91.3
87.5°	18.3	20.9	26.1	26.1	26.1	26.1	41.7	57.4	62.6	44.3	44.3
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)