

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: P479621

Luminaire Tested: **IFLD-M-SA4C-727-U-5WQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479621  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4C-727-U-5WQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5WQ distribution lens  
Light Source: (64) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

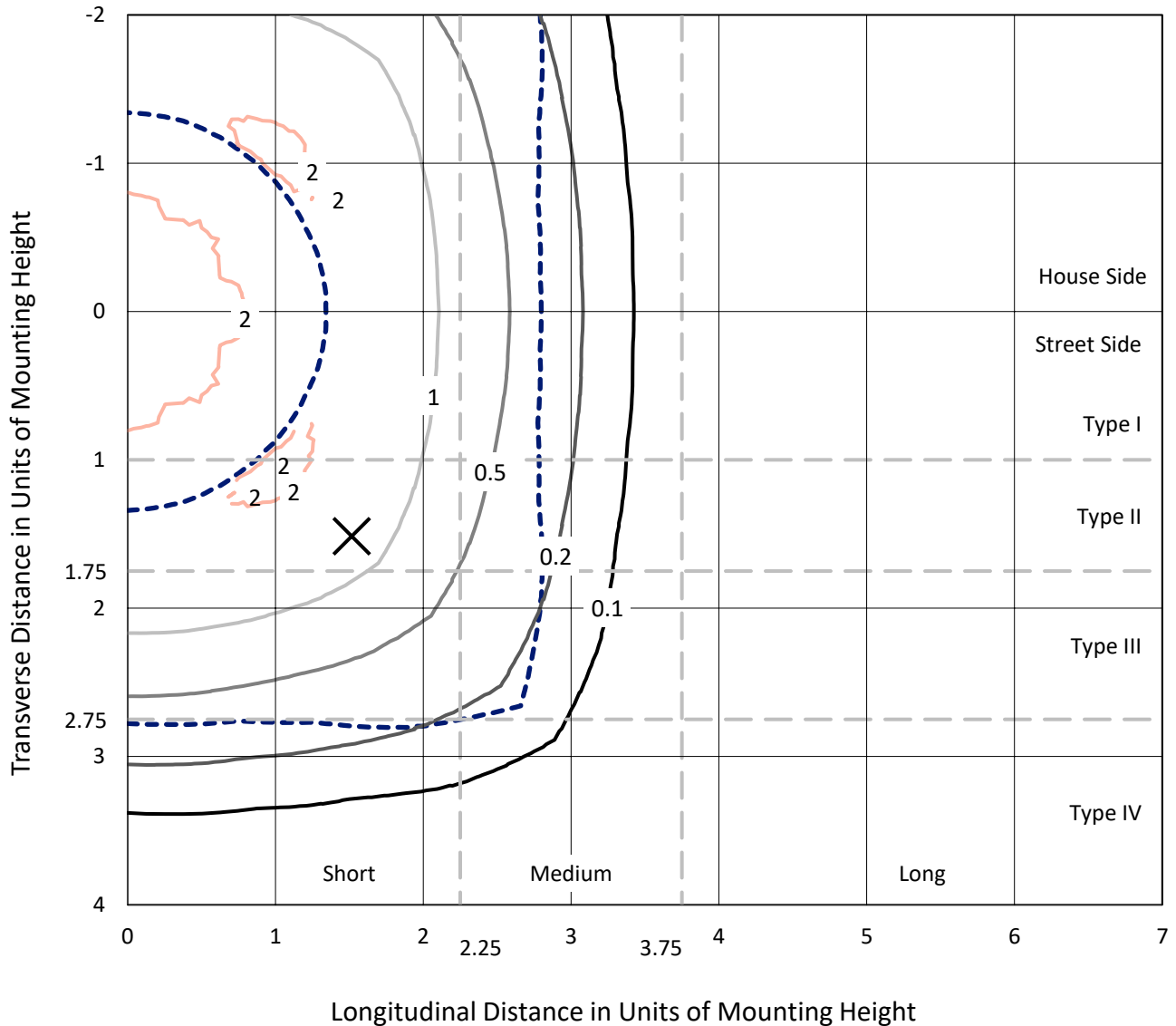
Lumens per Lamp: N/A  
Luminaire Lumens: 24400.2 lumens  
Efficiency: N/A  
Efficacy: 111.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

Input Watts (W): 218.1  
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

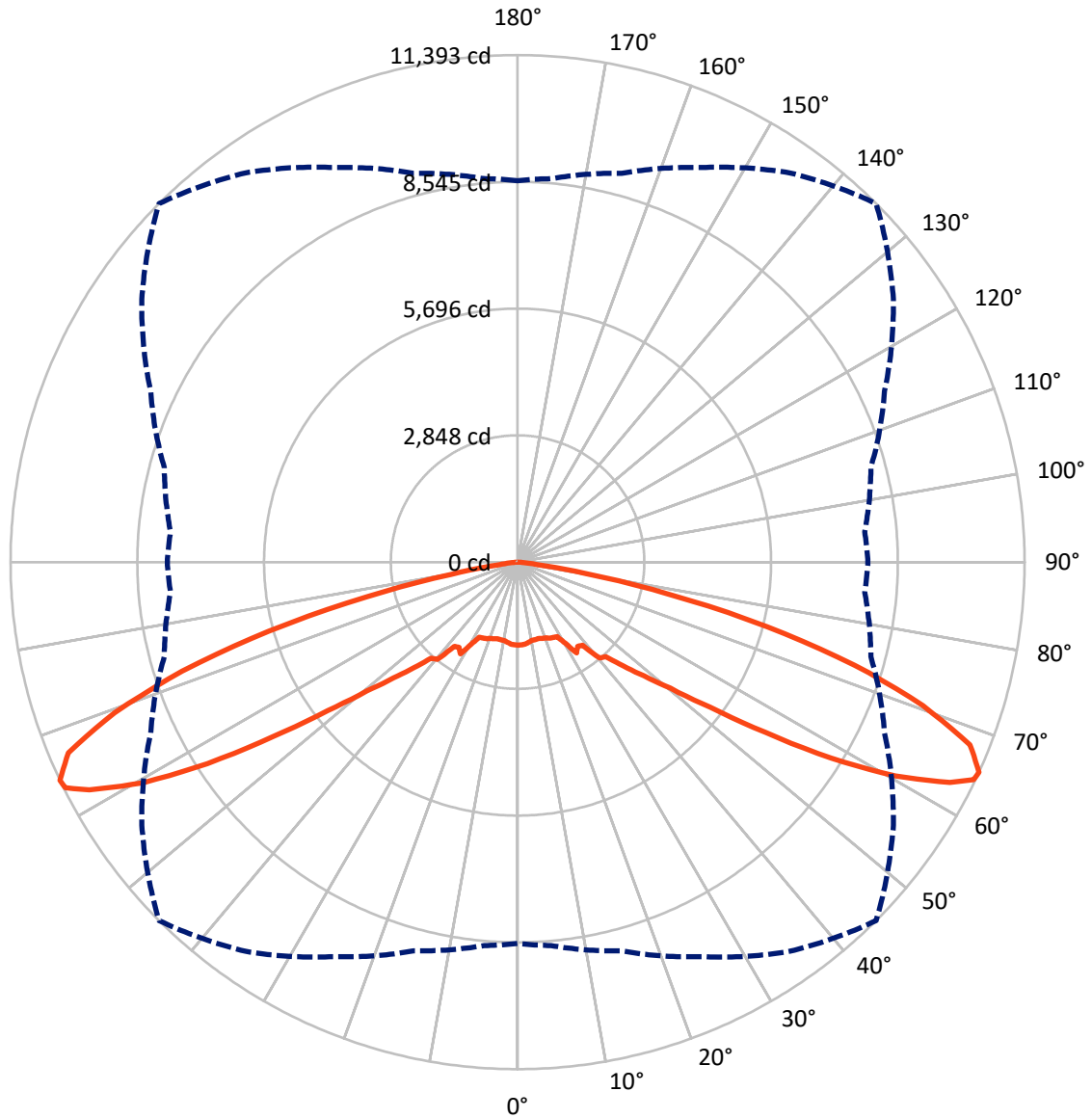
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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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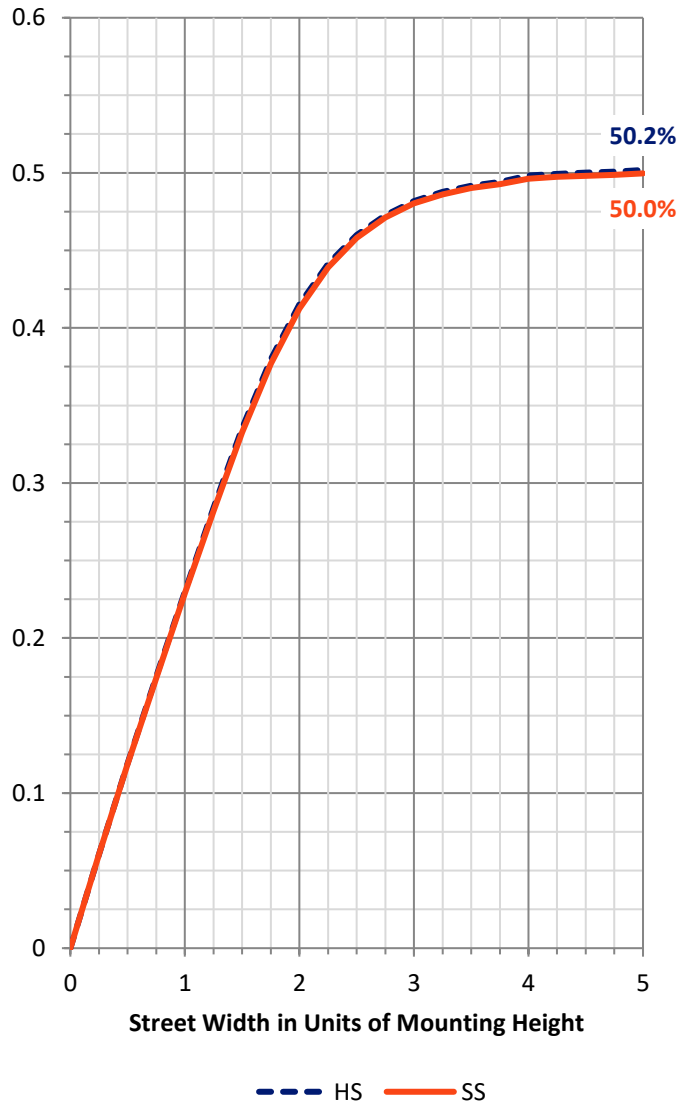
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12200.1	0.0	12200.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12200.1	0.0	12200.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	24400.2	0.0	24400.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.1	0.7
10°-20°	514.3	2.1
20°-30°	890.1	3.6
30°-40°	1480.1	6.1
40°-50°	2670.4	10.9
50°-60°	5948.7	24.4
60°-70°	8865.5	36.3
70°-80°	3674.0	15.1
80°-90°	182.0	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°	24400.2	100.0
0°-180°	24400.2	100.0

**Coefficient of Utilization**



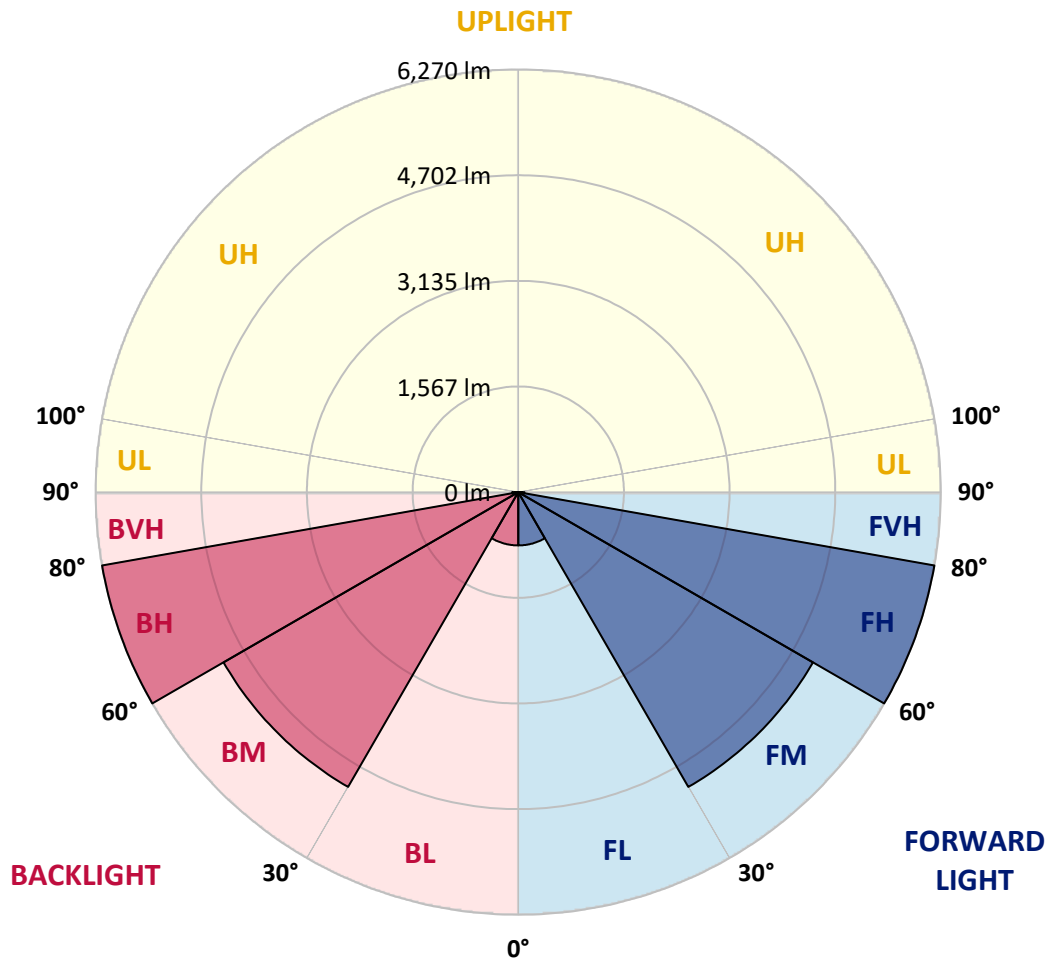
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	789.7	3.2			
FM (30°-60°)	5049.6	20.7			
FH (60°-80°)	6269.7	25.7			G3/7500
FVH (80°-90°)	91.0	0.4			G1/100
BL (0°-30°)	789.7	3.2	B2/1000		
BM (30°-60°)	5049.6	20.7	B4/8500		
BH (60°-80°)	6269.7	25.7	B5		G3/7500
BVH (80°-90°)	91.0	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°	1865.5	1865.5	1865.5	1865.5	1865.5	1865.5	1865.5	1865.5	1865.5	1865.5	1865.5
2.5°	1844.0	1849.4	1846.7	1846.7	1854.8	1860.2	1862.8	1889.8	1879.0	1887.1	1879.0
5°	1849.4	1849.4	1854.8	1849.4	1854.8	1849.4	1854.8	1846.7	1854.8	1860.2	1868.2
7.5°	1838.6	1833.2	1825.1	1825.1	1822.4	1817.0	1808.9	1830.5	1819.7	1827.8	1841.3
10°	1841.3	1833.2	1806.2	1811.6	1787.4	1787.4	1792.8	1792.8	1817.0	1844.0	1852.1
12.5°	1841.3	1825.1	1817.0	1782.0	1782.0	1784.7	1798.1	1803.5	1819.7	1830.5	1857.5
15°	1841.3	1833.2	1819.7	1773.9	1784.7	1779.3	1792.8	1792.8	1827.8	1846.7	1860.2
17.5°	1852.1	1857.5	1833.2	1790.1	1792.8	1803.5	1795.4	1803.5	1846.7	1860.2	1879.0
20°	1854.8	1833.2	1825.1	1798.1	1822.4	1817.0	1814.3	1830.5	1844.0	1868.2	1889.8
22.5°	1849.4	1857.5	1825.1	1822.4	1844.0	1854.8	1860.2	1841.3	1857.5	1873.6	1892.5
25°	1895.2	1865.5	1857.5	1852.1	1862.8	1873.6	1868.2	1884.4	1884.4	1903.3	1927.5
27.5°	2019.2	2021.9	2005.7	1941.0	1919.5	1895.2	1906.0	1949.1	2000.3	2040.8	2048.9
30°	2075.8	2086.6	2129.7	2119.0	2110.9	2119.0	2116.3	2127.0	2132.4	2135.1	2127.0
32.5°	2127.0	2121.6	2102.8	2151.3	2310.4	2431.7	2315.8	2156.7	2121.6	2110.9	2121.6
35°	2313.1	2313.1	2272.6	2210.6	2294.2	2323.8	2269.9	2194.4	2237.6	2326.5	2331.9
37.5°	2553.0	2517.9	2534.1	2526.0	2434.4	2369.7	2464.0	2512.6	2520.6	2517.9	2544.9
40°	2695.9	2671.6	2647.3	2690.5	2774.1	2833.4	2749.8	2633.9	2663.5	2722.8	2698.6
42.5°	3022.1	2960.1	2965.5	2922.3	2919.6	2900.8	2881.9	2890.0	2933.1	3000.5	3011.3
45°	3356.4	3386.0	3367.1	3286.3	3324.0	3324.0	3270.1	3310.5	3332.1	3410.3	3421.1
47.5°	3879.4	3865.9	3874.0	3801.2	3798.5	3817.4	3798.5	3801.2	3868.6	3863.2	3833.5
50°	4491.3	4529.1	4539.8	4504.8	4461.7	4453.6	4423.9	4461.7	4502.1	4504.8	4480.5
52.5°	5337.8	5378.3	5378.3	5389.0	5443.0	5416.0	5410.6	5413.3	5335.1	5281.2	5308.2
55°	6405.4	6418.9	6464.7	6559.1	6723.5	6745.1	6642.6	6596.8	6453.9	6367.6	6435.0
57.5°	7459.5	7513.4	7640.1	7885.4	8087.6	8308.7	8012.1	7710.2	7429.8	7292.3	7316.6
60°	8335.6	8413.8	8656.4	8998.8	9559.6	9761.7	9260.3	8742.7	8173.9	7753.3	7923.2
62.5°	8748.1	8869.4	9074.3	9767.1	10608.2	10899.4	10163.4	9222.6	8359.9	7955.5	7947.4
64°	8750.8	8769.7	9179.4	9926.2	10791.6	11355.0	10381.8	9222.6	8405.7	7907.0	7998.6
65°	8570.2	8648.4	9044.6	9780.6	10675.6	11392.7	10306.3	9095.9	8217.0	7828.8	7871.9
67.5°	7750.6	7747.9	8114.6	8845.1	10087.9	10964.1	9664.7	8386.9	7750.6	7330.1	7381.3
70°	5879.7	5974.0	6324.5	7222.2	8729.2	9667.4	8451.6	7127.9	6335.3	5998.3	5979.4
72.5°	3518.1	3642.1	4089.6	5184.2	6780.1	7920.5	6707.3	5273.1	4318.8	3785.0	3798.5
75°	1604.0	1695.7	2003.0	2895.4	4518.3	5790.7	4545.2	3049.0	2186.4	1846.7	1798.1
77.5°	450.2	506.8	676.7	1329.1	2480.2	3472.3	2550.3	1469.2	954.3	792.6	776.4
80°	202.2	213.0	239.9	323.5	787.2	1531.3	1054.1	539.2	358.6	296.5	283.1
82.5°	110.5	118.6	156.4	167.1	223.8	407.1	347.8	253.4	215.7	172.5	167.1
85°	62.0	64.7	89.0	89.0	107.8	118.6	126.7	134.8	132.1	97.1	94.4
87.5°	18.9	21.6	27.0	27.0	27.0	27.0	43.1	59.3	64.7	45.8	45.8
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)