

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: P479856

Luminaire Tested: **IFLD-M-SA4D-827-U-5WQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479856  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4D-827-U-5WQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5WQ distribution lens  
Light Source: (64) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

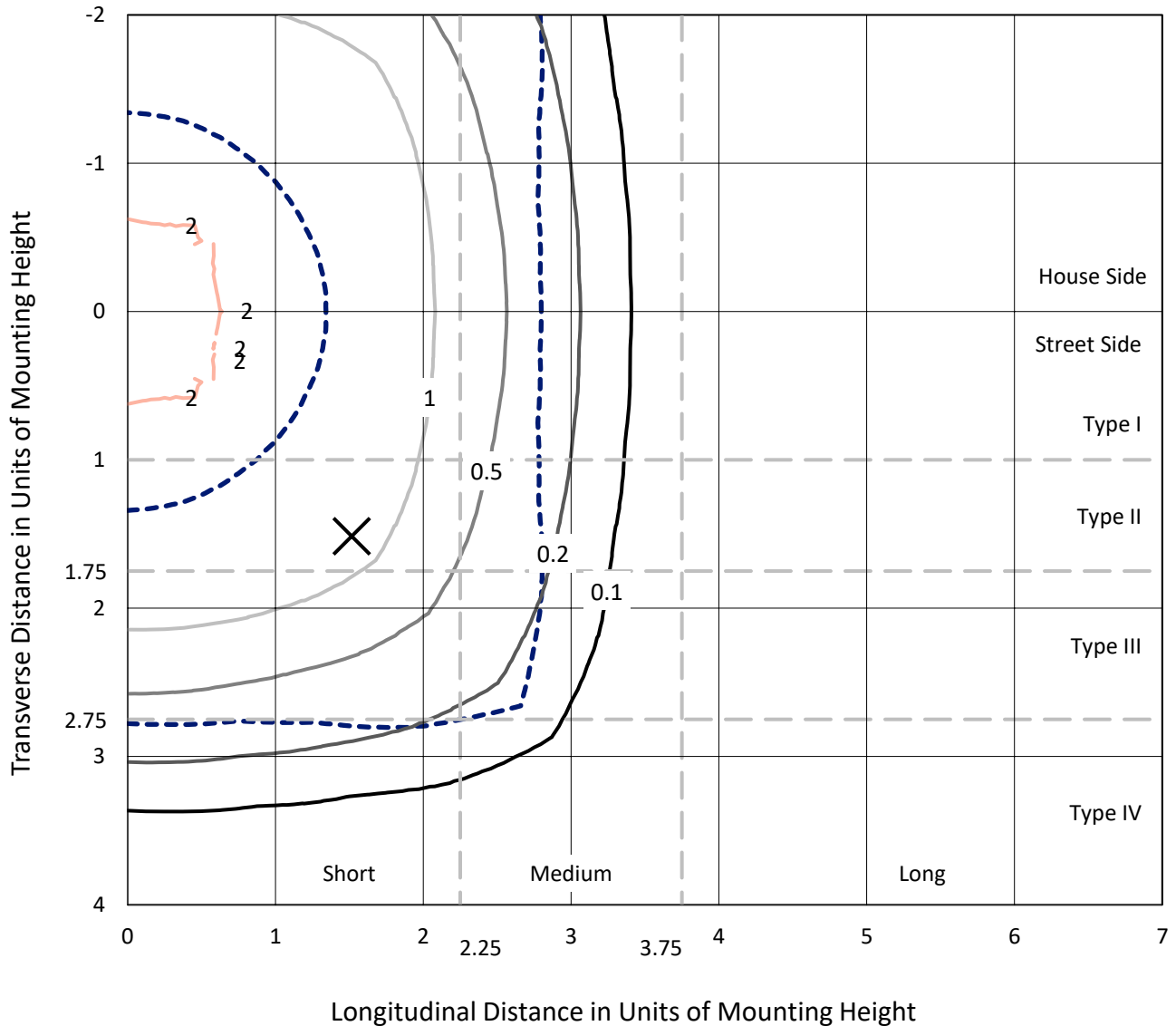
Lumens per Lamp: N/A  
Luminaire Lumens: 23599.1 lumens  
Efficiency: N/A  
Efficacy: 94.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

Input Watts (W): 249.7  
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

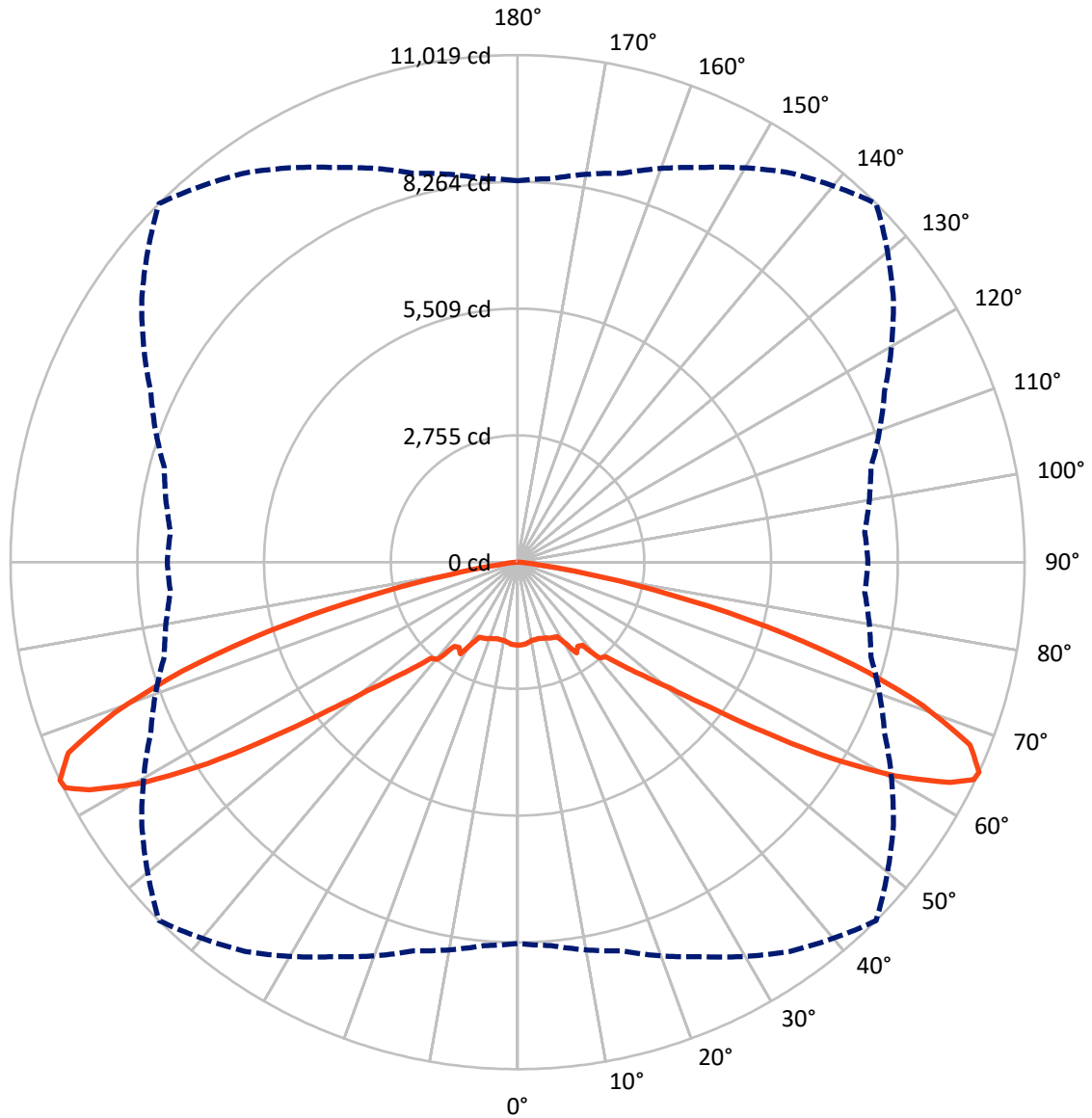
× Max cd  
 - - - 1/2 Max cd



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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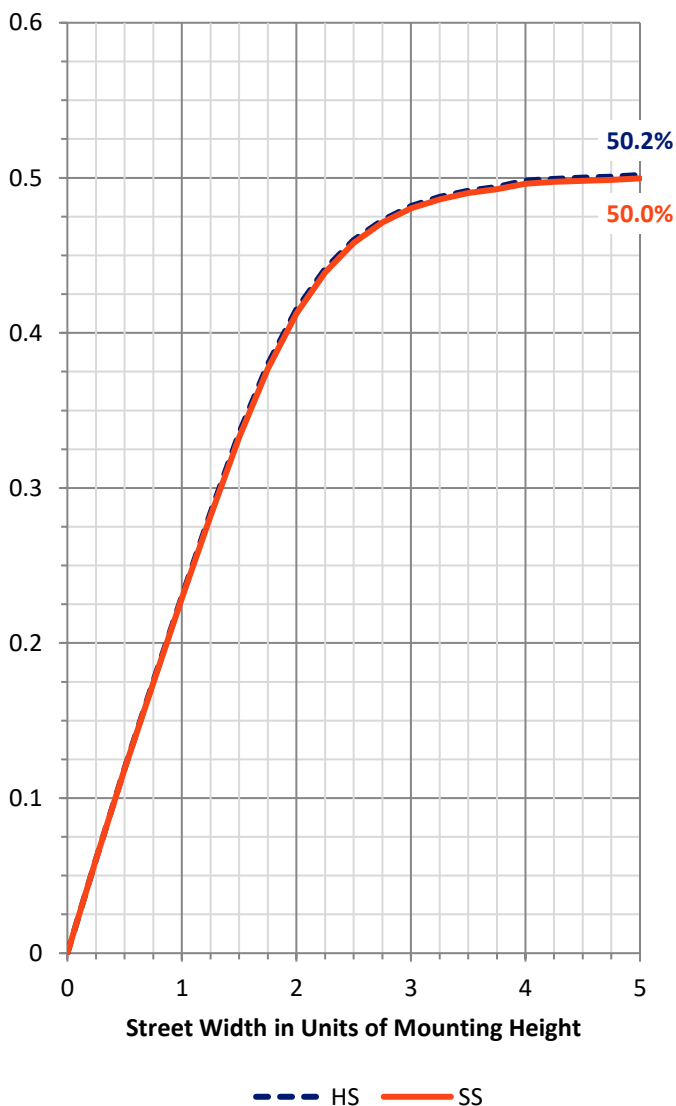
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11799.6	0.0	11799.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11799.6	0.0	11799.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	23599.1	0.0	23599.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	169.3	0.7
10°-20°	497.4	2.1
20°-30°	860.9	3.6
30°-40°	1431.5	6.1
40°-50°	2582.7	10.9
50°-60°	5753.4	24.4
60°-70°	8574.5	36.3
70°-80°	3553.4	15.1
80°-90°	176.0	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°	23599.1	100.0
0°-180°	23599.1	100.0

**Coefficient of Utilization**



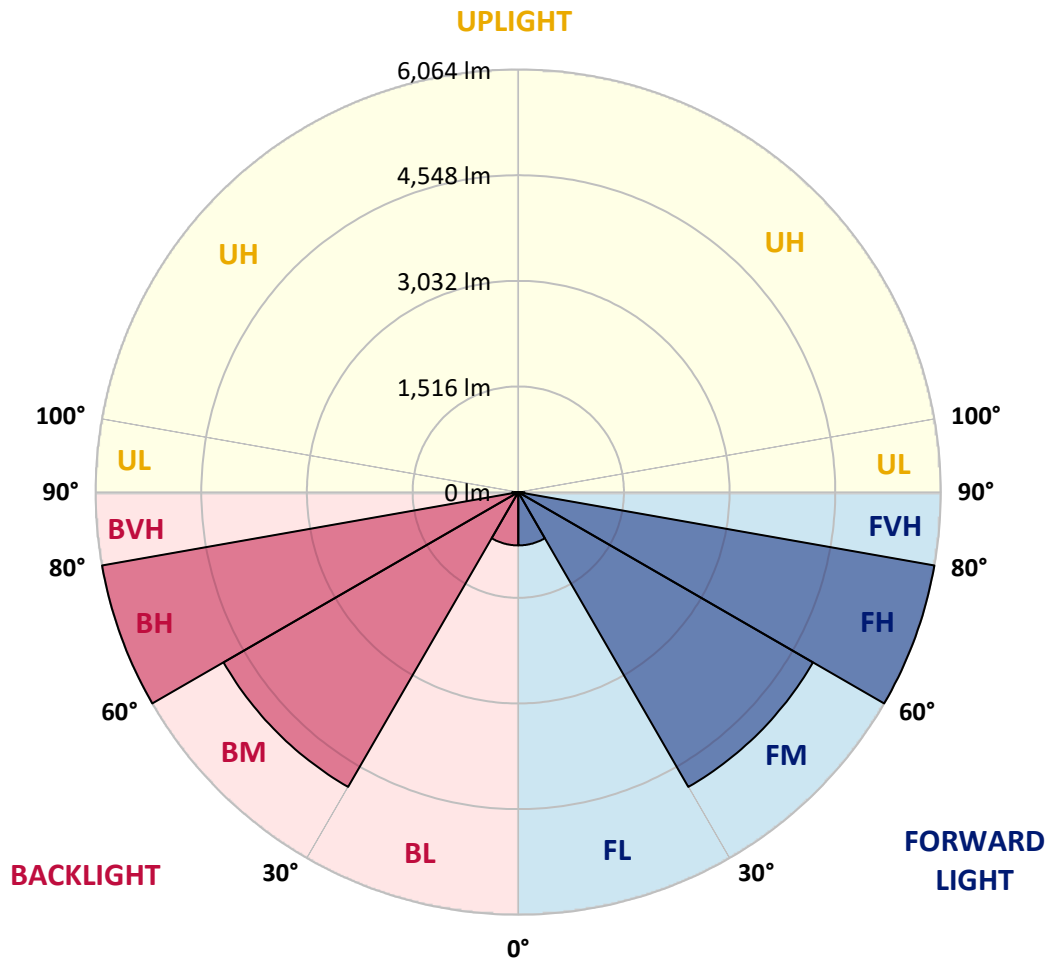
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	763.8	3.2			
FM (30°-60°)	4883.8	20.7			
FH (60°-80°)	6063.9	25.7			G3/7500
FVH (80°-90°)	88.0	0.4			G1/100
BL (0°-30°)	763.8	3.2	B2/1000		
BM (30°-60°)	4883.8	20.7	B3/5000		
BH (60°-80°)	6063.9	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°	1804.3	1804.3	1804.3	1804.3	1804.3	1804.3	1804.3	1804.3	1804.3	1804.3	1804.3
2.5°	1783.4	1788.7	1786.0	1786.0	1793.9	1799.1	1801.7	1827.8	1817.3	1825.2	1817.3
5°	1788.7	1788.7	1793.9	1788.7	1793.9	1788.7	1793.9	1786.0	1793.9	1799.1	1806.9
7.5°	1778.2	1773.0	1765.2	1765.2	1762.6	1757.4	1749.5	1770.4	1760.0	1767.8	1780.8
10°	1780.8	1773.0	1746.9	1752.2	1728.7	1728.7	1733.9	1733.9	1757.4	1783.4	1791.3
12.5°	1780.8	1765.2	1757.4	1723.5	1723.5	1726.1	1739.1	1744.3	1760.0	1770.4	1796.5
15°	1780.8	1773.0	1760.0	1715.6	1726.1	1720.9	1733.9	1733.9	1767.8	1786.0	1799.1
17.5°	1791.3	1796.5	1773.0	1731.3	1733.9	1744.3	1736.5	1744.3	1786.0	1799.1	1817.3
20°	1793.9	1773.0	1765.2	1739.1	1762.6	1757.4	1754.8	1770.4	1783.4	1806.9	1827.8
22.5°	1788.7	1796.5	1765.2	1762.6	1783.4	1793.9	1799.1	1780.8	1796.5	1812.1	1830.4
25°	1833.0	1804.3	1796.5	1791.3	1801.7	1812.1	1806.9	1822.5	1822.5	1840.8	1864.3
27.5°	1952.9	1955.5	1939.9	1877.3	1856.4	1833.0	1843.4	1885.1	1934.7	1973.8	1981.6
30°	2007.7	2018.1	2059.8	2049.4	2041.6	2049.4	2046.8	2057.2	2062.4	2065.0	2057.2
32.5°	2057.2	2052.0	2033.7	2080.7	2234.5	2351.8	2239.7	2085.9	2052.0	2041.6	2052.0
35°	2237.1	2237.1	2198.0	2138.0	2218.9	2247.5	2195.4	2122.4	2164.1	2250.2	2255.4
37.5°	2469.2	2435.3	2450.9	2443.1	2354.5	2291.9	2383.1	2430.1	2437.9	2435.3	2461.4
40°	2607.4	2583.9	2560.4	2602.2	2683.0	2740.3	2659.5	2547.4	2576.1	2633.4	2610.0
42.5°	2922.9	2862.9	2868.1	2826.4	2823.8	2805.5	2787.3	2795.1	2836.8	2902.0	2912.4
45°	3246.2	3274.9	3256.6	3178.4	3214.9	3214.9	3162.7	3201.8	3222.7	3298.3	3308.7
47.5°	3752.0	3739.0	3746.8	3676.4	3673.8	3692.0	3673.8	3676.4	3741.6	3736.4	3707.7
50°	4343.9	4380.4	4390.8	4356.9	4315.2	4307.4	4278.7	4315.2	4354.3	4356.9	4333.4
52.5°	5162.6	5201.7	5201.7	5212.1	5264.3	5238.2	5233.0	5235.6	5160.0	5107.8	5133.9
55°	6195.1	6208.1	6252.5	6343.7	6502.8	6523.6	6424.6	6380.2	6242.0	6158.6	6223.8
57.5°	7214.6	7266.7	7389.3	7626.5	7822.1	8035.9	7749.1	7457.1	7185.9	7052.9	7076.4
60°	8062.0	8137.6	8372.3	8703.4	9245.7	9441.3	8956.3	8455.7	7905.5	7498.8	7663.0
62.5°	8460.9	8578.2	8776.4	9446.5	10260.0	10541.6	9829.8	8919.8	8085.4	7694.3	7686.5
64°	8463.5	8481.8	8878.1	9600.3	10437.3	10982.2	10041.0	8919.8	8129.8	7647.4	7736.1
65°	8288.8	8364.4	8747.7	9459.5	10325.2	11018.7	9968.0	8797.3	7947.3	7571.8	7613.5
67.5°	7496.2	7493.6	7848.2	8554.8	9756.8	10604.2	9347.4	8111.5	7496.2	7089.4	7139.0
70°	5686.7	5777.9	6116.9	6985.1	8442.7	9350.0	8174.1	6893.9	6127.3	5801.4	5783.1
72.5°	3402.6	3522.6	3955.4	5014.0	6557.5	7660.4	6487.1	5100.0	4177.0	3660.7	3673.8
75°	1551.4	1640.0	1937.3	2800.3	4369.9	5600.6	4396.0	2948.9	2114.6	1786.0	1739.1
77.5°	435.4	490.2	654.4	1285.4	2398.8	3358.3	2466.6	1421.0	923.0	766.6	750.9
80°	195.6	206.0	232.1	312.9	761.4	1481.0	1019.5	521.5	346.8	286.8	273.8
82.5°	106.9	114.7	151.2	161.7	216.4	393.7	336.4	245.1	208.6	166.9	161.7
85°	60.0	62.6	86.0	86.0	104.3	114.7	122.5	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)