

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: P479894

Luminaire Tested: **IFLD-M-SA4C-830-U-5WQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479894  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4C-830-U-5WQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5WQ distribution lens  
Light Source: (64) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

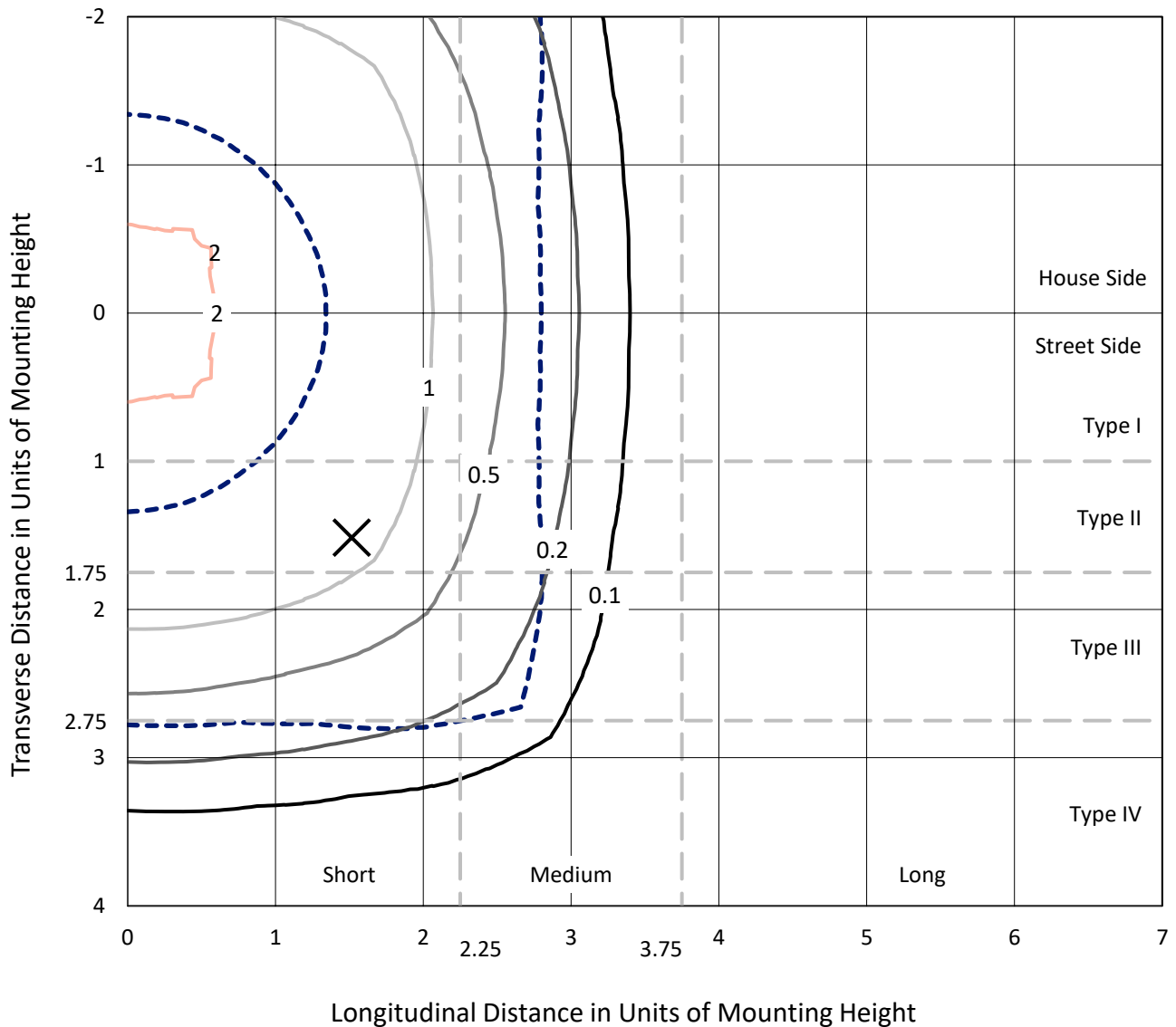
Lumens per Lamp: N/A  
Luminaire Lumens: 23183.5 lumens  
Efficiency: N/A  
Efficacy: 106.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

Input Watts (W): 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

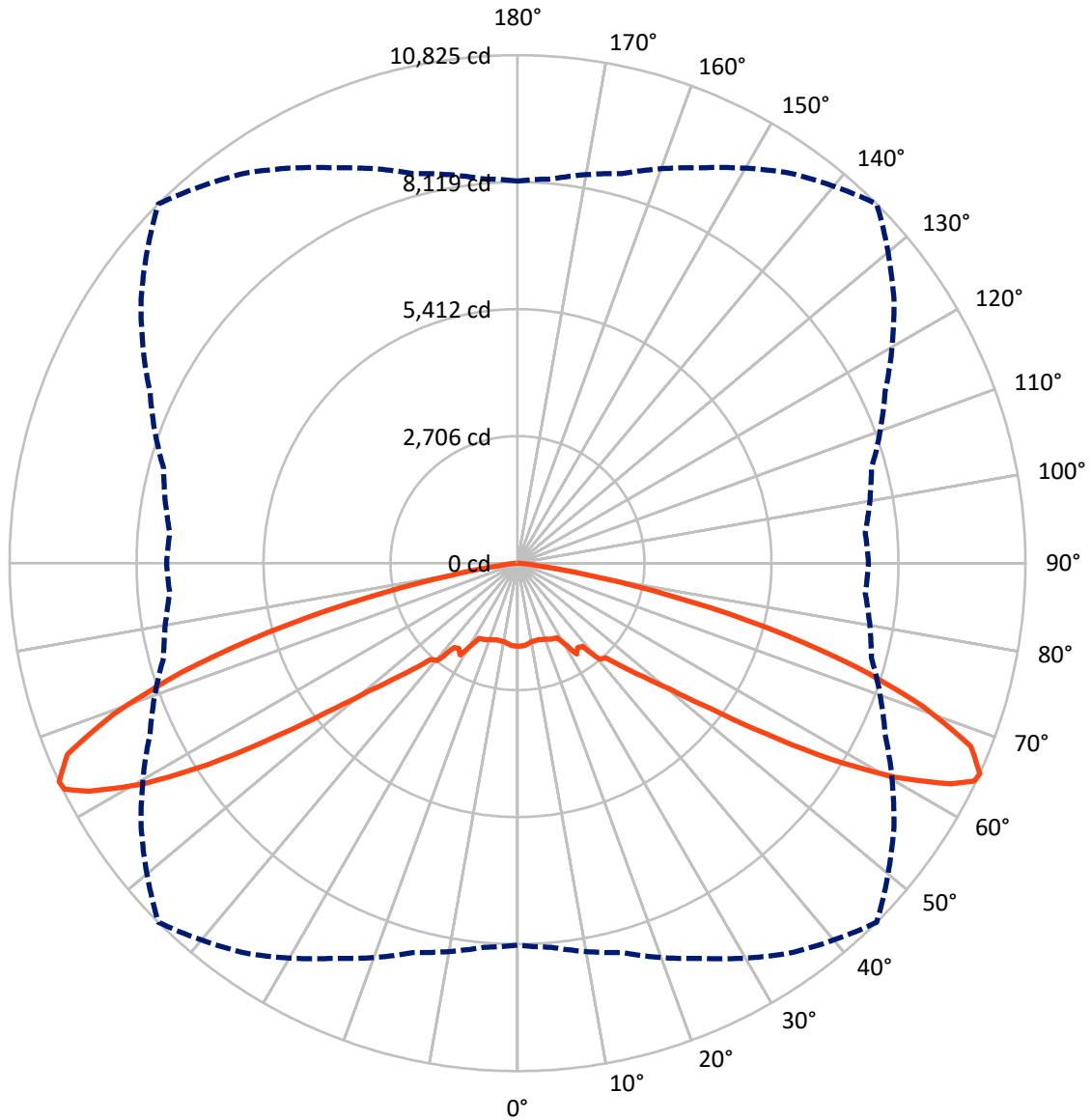
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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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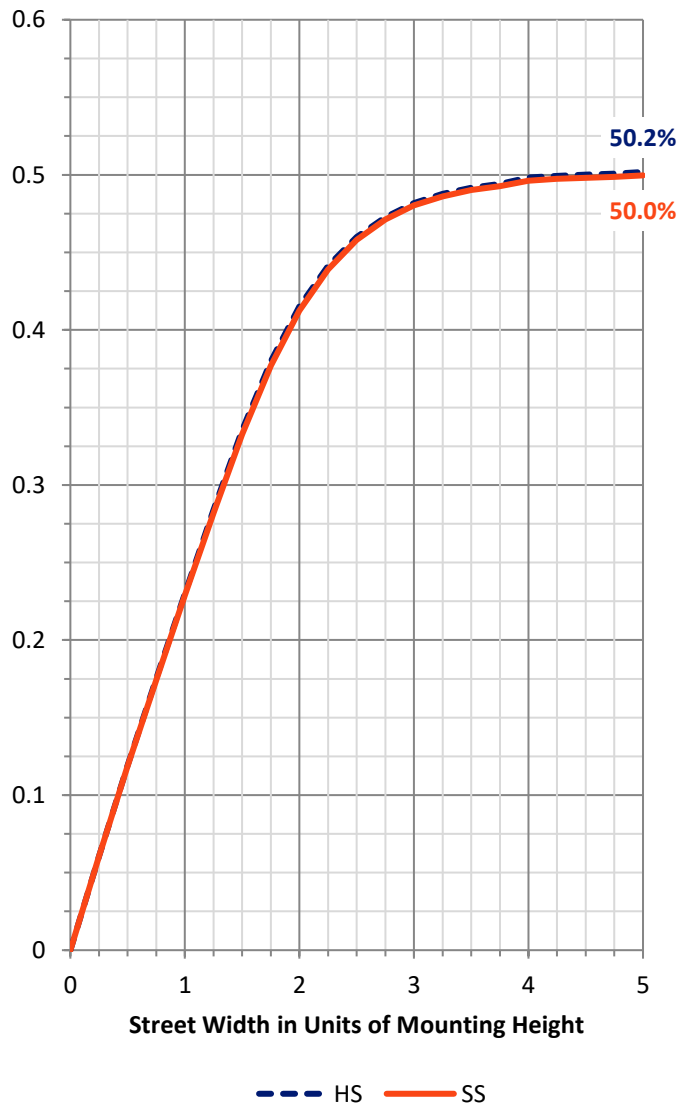
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11591.8	0.0	11591.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11591.8	0.0	11591.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	23183.5	0.0	23183.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	166.3	0.7
10°-20°	488.6	2.1
20°-30°	845.8	3.6
30°-40°	1406.3	6.1
40°-50°	2537.2	10.9
50°-60°	5652.1	24.4
60°-70°	8423.5	36.3
70°-80°	3490.8	15.1
80°-90°	172.9	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°	23183.5	100.0
0°-180°	23183.5	100.0

**Coefficient of Utilization**



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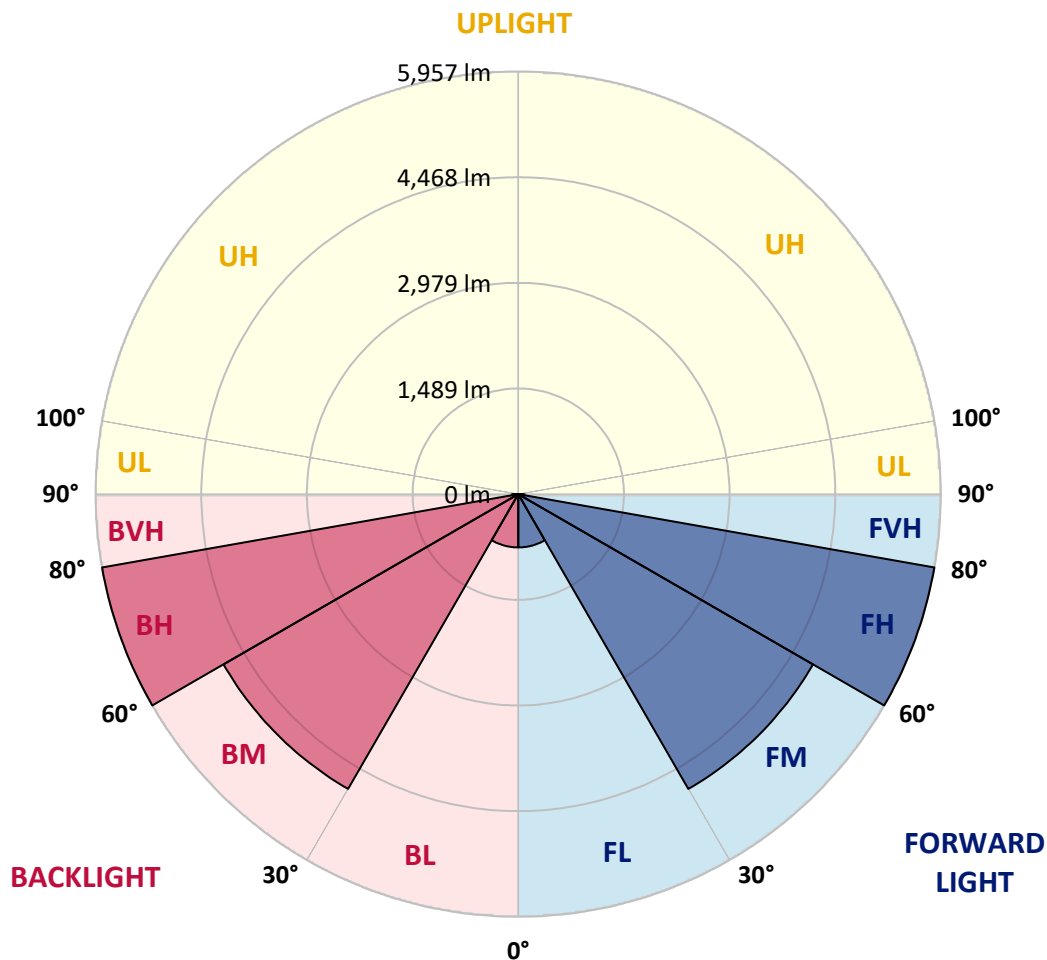
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	750.4	3.2			
FM (30°-60°)	4797.8	20.7			
FH (60°-80°)	5957.1	25.7			G3/7500
FVH (80°-90°)	86.4	0.4			G1/100
BL (0°-30°)	750.4	3.2	B2/1000		
BM (30°-60°)	4797.8	20.7	B3/5000		
BH (60°-80°)	5957.1	25.7	B5		G3/7500
BVH (80°-90°)	86.4	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°	1772.5	1772.5	1772.5	1772.5	1772.5	1772.5	1772.5	1772.5	1772.5	1772.5	1772.5
2.5°	1752.0	1757.2	1754.6	1754.6	1762.3	1767.4	1770.0	1795.6	1785.3	1793.0	1785.3
5°	1757.2	1757.2	1762.3	1757.2	1762.3	1757.2	1762.3	1754.6	1762.3	1767.4	1775.1
7.5°	1746.9	1741.8	1734.1	1734.1	1731.5	1726.4	1718.7	1739.2	1729.0	1736.7	1749.5
10°	1749.5	1741.8	1716.2	1721.3	1698.2	1698.2	1703.4	1703.4	1726.4	1752.0	1759.7
12.5°	1749.5	1734.1	1726.4	1693.1	1693.1	1695.7	1708.5	1713.6	1729.0	1739.2	1764.8
15°	1749.5	1741.8	1729.0	1685.4	1695.7	1690.6	1703.4	1703.4	1736.7	1754.6	1767.4
17.5°	1759.7	1764.8	1741.8	1700.8	1703.4	1713.6	1705.9	1713.6	1754.6	1767.4	1785.3
20°	1762.3	1741.8	1734.1	1708.5	1731.5	1726.4	1723.9	1739.2	1752.0	1775.1	1795.6
22.5°	1757.2	1764.8	1734.1	1731.5	1752.0	1762.3	1767.4	1749.5	1764.8	1780.2	1798.1
25°	1800.7	1772.5	1764.8	1759.7	1770.0	1780.2	1775.1	1790.5	1790.5	1808.4	1831.4
27.5°	1918.5	1921.1	1905.7	1844.2	1823.8	1800.7	1810.9	1851.9	1900.6	1939.0	1946.7
30°	1972.3	1982.6	2023.5	2013.3	2005.6	2013.3	2010.7	2021.0	2026.1	2028.7	2021.0
32.5°	2021.0	2015.9	1997.9	2044.0	2195.2	2310.4	2200.3	2049.2	2015.9	2005.6	2015.9
35°	2197.7	2197.7	2159.3	2100.4	2179.8	2208.0	2156.7	2085.0	2126.0	2210.5	2215.7
37.5°	2425.7	2392.4	2407.8	2400.1	2313.0	2251.5	2341.2	2387.3	2395.0	2392.4	2418.0
40°	2561.4	2538.4	2515.3	2556.3	2635.7	2692.1	2612.7	2502.5	2530.7	2587.1	2564.0
42.5°	2871.4	2812.5	2817.6	2776.6	2774.0	2756.1	2738.2	2745.9	2786.9	2850.9	2861.1
45°	3189.0	3217.2	3199.2	3122.4	3158.3	3158.3	3107.0	3145.5	3165.9	3240.2	3250.5
47.5°	3685.9	3673.1	3680.8	3611.6	3609.1	3627.0	3609.1	3611.6	3675.7	3670.6	3642.4
50°	4267.4	4303.2	4313.5	4280.2	4239.2	4231.5	4203.3	4239.2	4277.6	4280.2	4257.1
52.5°	5071.7	5110.1	5110.1	5120.3	5171.6	5145.9	5140.8	5143.4	5069.1	5017.9	5043.5
55°	6086.0	6098.8	6142.4	6232.0	6388.2	6408.7	6311.4	6267.9	6132.1	6050.1	6114.2
57.5°	7087.5	7138.8	7259.1	7492.2	7684.3	7894.4	7612.6	7325.7	7059.3	6928.7	6951.8
60°	7920.0	7994.3	8224.8	8550.1	9082.9	9275.0	8798.6	8306.8	7766.3	7366.7	7528.1
62.5°	8311.9	8427.2	8621.8	9280.1	10079.3	10355.9	9656.7	8762.7	7943.0	7558.8	7551.1
64°	8314.5	8332.4	8721.7	9431.2	10253.5	10788.8	9864.1	8762.7	7986.6	7512.7	7599.8
65°	8142.8	8217.1	8593.7	9292.9	10143.3	10824.7	9792.4	8642.3	7807.3	7438.4	7479.4
67.5°	7364.2	7361.6	7710.0	8404.1	9584.9	10417.4	9182.8	7968.7	7364.2	6964.6	7013.2
70°	5586.5	5676.2	6009.2	6862.1	8294.0	9185.4	8030.1	6772.5	6019.4	5699.2	5681.3
72.5°	3342.7	3460.5	3885.7	4925.7	6442.0	7525.5	6372.9	5010.2	4103.4	3596.3	3609.1
75°	1524.1	1611.2	1903.2	2751.0	4293.0	5502.0	4318.6	2897.0	2077.3	1754.6	1708.5
77.5°	427.8	481.6	642.9	1262.8	2356.5	3299.1	2423.1	1396.0	906.8	753.1	737.7
80°	192.1	202.4	228.0	307.4	747.9	1454.9	1001.5	512.3	340.7	281.8	269.0
82.5°	105.0	112.7	148.6	158.8	212.6	386.8	330.4	240.8	204.9	163.9	158.8
85°	58.9	61.5	84.5	84.5	102.5	112.7	120.4	128.1	125.5	92.2	89.7
87.5°	17.9	20.5	25.6	25.6	25.6	25.6	41.0	56.4	61.5	43.5	43.5
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)