

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: P479855

Luminaire Tested: **IFLD-M-SA4C-827-U-5WQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479855
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-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

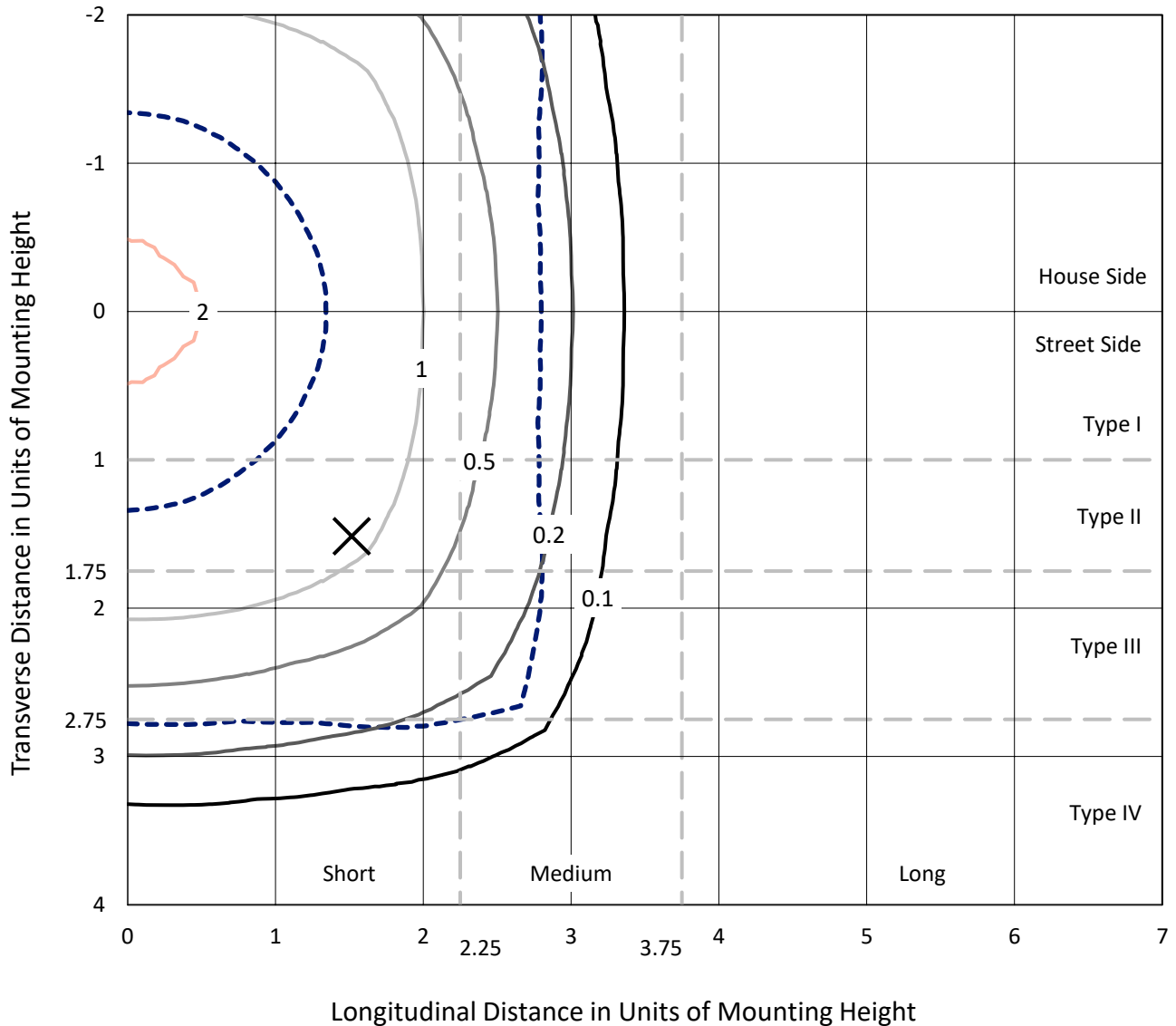
Lumens per Lamp: N/A
Luminaire Lumens: 21447.5 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

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

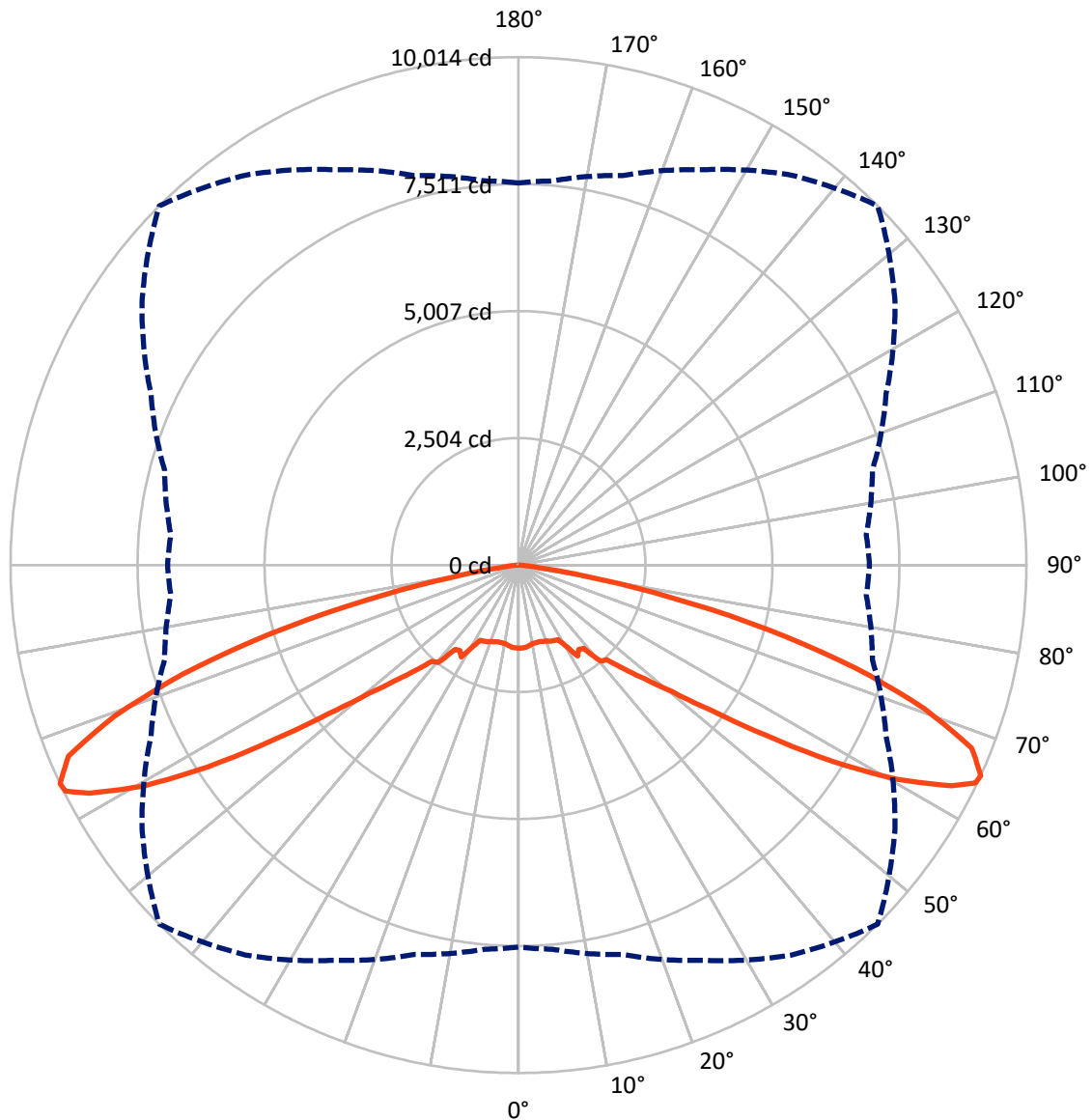
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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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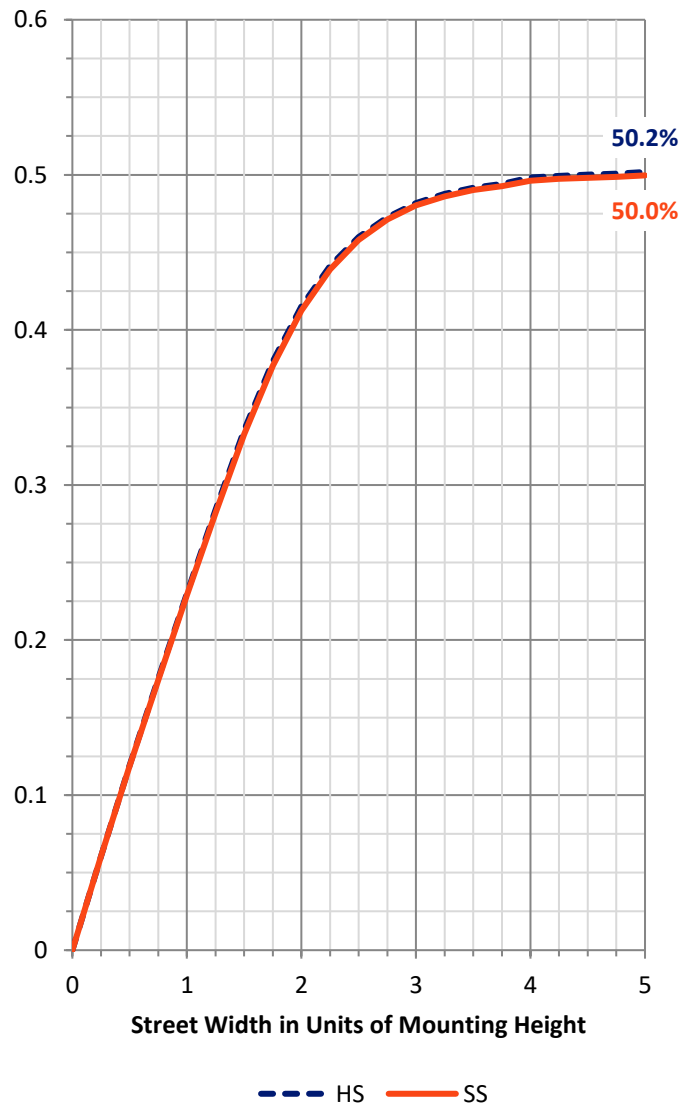
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10723.8	0.0	10723.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10723.8	0.0	10723.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	21447.5	0.0	21447.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.9	0.7
10°-20°	452.0	2.1
20°-30°	782.4	3.6
30°-40°	1301.0	6.1
40°-50°	2347.2	10.9
50°-60°	5228.9	24.4
60°-70°	7792.7	36.3
70°-80°	3229.4	15.1
80°-90°	160.0	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°	21447.5	100.0
0°-180°	21447.5	100.0

Coefficient of Utilization



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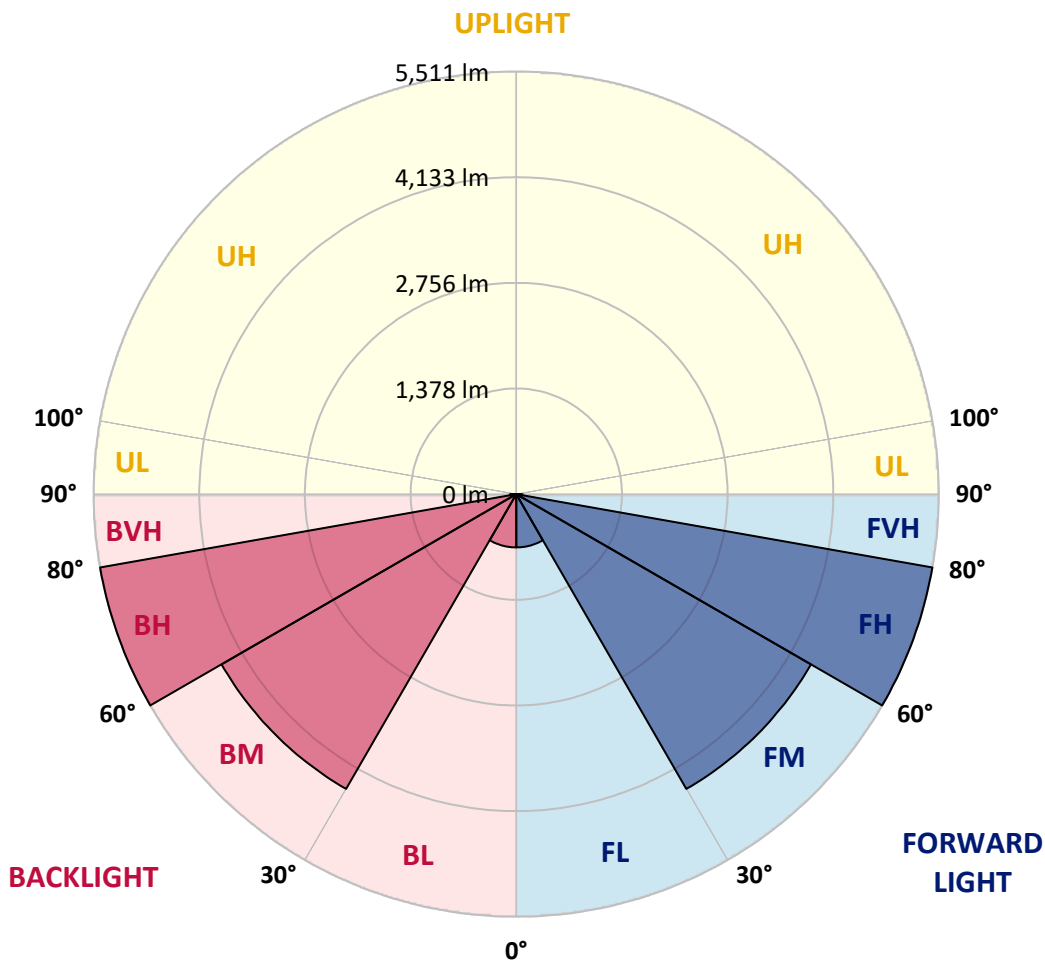
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	694.2	3.2			
FM (30°-60°)	4438.6	20.7			
FH (60°-80°)	5511.1	25.7			G3/7500
FVH (80°-90°)	80.0	0.4			G1/100
BL (0°-30°)	694.2	3.2	B2/1000		
BM (30°-60°)	4438.6	20.7	B3/5000		
BH (60°-80°)	5511.1	25.7	B5		G3/7500
BVH (80°-90°)	80.0	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°	1639.8	1639.8	1639.8	1639.8	1639.8	1639.8	1639.8	1639.8	1639.8	1639.8	1639.8
2.5°	1620.8	1625.6	1623.2	1623.2	1630.3	1635.1	1637.4	1661.1	1651.6	1658.8	1651.6
5°	1625.6	1625.6	1630.3	1625.6	1630.3	1625.6	1630.3	1623.2	1630.3	1635.1	1642.2
7.5°	1616.1	1611.4	1604.2	1604.2	1601.9	1597.1	1590.0	1609.0	1599.5	1606.6	1618.5
10°	1618.5	1611.4	1587.7	1592.4	1571.1	1571.1	1575.8	1575.8	1597.1	1620.8	1627.9
12.5°	1618.5	1604.2	1597.1	1566.3	1566.3	1568.7	1580.6	1585.3	1599.5	1609.0	1632.7
15°	1618.5	1611.4	1599.5	1559.2	1568.7	1564.0	1575.8	1575.8	1606.6	1623.2	1635.1
17.5°	1627.9	1632.7	1611.4	1573.4	1575.8	1585.3	1578.2	1585.3	1623.2	1635.1	1651.6
20°	1630.3	1611.4	1604.2	1580.6	1601.9	1597.1	1594.8	1609.0	1620.8	1642.2	1661.1
22.5°	1625.6	1632.7	1604.2	1601.9	1620.8	1630.3	1635.1	1618.5	1632.7	1646.9	1663.5
25°	1665.9	1639.8	1632.7	1627.9	1637.4	1646.9	1642.2	1656.4	1656.4	1673.0	1694.3
27.5°	1774.9	1777.2	1763.0	1706.1	1687.2	1665.9	1675.3	1713.3	1758.3	1793.8	1800.9
30°	1824.6	1834.1	1872.0	1862.5	1855.4	1862.5	1860.2	1869.6	1874.4	1876.8	1869.6
32.5°	1869.6	1864.9	1848.3	1891.0	2030.8	2137.4	2035.5	1895.7	1864.9	1855.4	1864.9
35°	2033.2	2033.2	1997.6	1943.1	2016.6	2042.6	1995.2	1928.9	1966.8	2045.0	2049.7
37.5°	2244.1	2213.2	2227.5	2220.4	2139.8	2082.9	2165.9	2208.5	2215.6	2213.2	2236.9
40°	2369.6	2348.3	2327.0	2364.9	2438.4	2490.5	2417.0	2315.1	2341.2	2393.3	2372.0
42.5°	2656.4	2601.9	2606.6	2568.7	2566.3	2549.7	2533.2	2540.3	2578.2	2637.4	2646.9
45°	2950.2	2976.3	2959.7	2888.6	2921.8	2921.8	2874.4	2909.9	2928.9	2997.6	3007.1
47.5°	3409.9	3398.1	3405.2	3341.2	3338.8	3355.4	3338.8	3341.2	3400.4	3395.7	3369.6
50°	3947.8	3981.0	3990.5	3959.7	3921.8	3914.7	3888.6	3921.8	3957.3	3959.7	3938.3
52.5°	4691.9	4727.4	4727.4	4736.9	4784.3	4760.6	4755.9	4758.2	4689.5	4642.1	4665.8
55°	5630.3	5642.1	5682.4	5765.3	5909.9	5928.9	5838.8	5798.5	5672.9	5597.1	5656.3
57.5°	6556.8	6604.2	6715.6	6931.2	7108.9	7303.2	7042.6	6777.2	6530.7	6409.9	6431.2
60°	7326.9	7395.7	7608.9	7909.9	8402.8	8580.5	8139.7	7684.8	7184.8	6815.1	6964.4
62.5°	7689.5	7796.1	7976.2	8585.2	9324.6	9580.5	8933.6	8106.6	7348.3	6992.8	6985.7
64°	7691.9	7708.5	8068.6	8725.0	9485.7	9980.9	9125.5	8106.6	7388.6	6950.2	7030.7
65°	7533.1	7601.8	7950.2	8597.1	9383.8	10014.1	9059.2	7995.2	7222.7	6881.4	6919.4
67.5°	6812.7	6810.4	7132.6	7774.8	8867.2	9637.3	8495.2	7372.0	6812.7	6443.1	6488.1
70°	5168.2	5251.1	5559.2	6348.3	7672.9	8497.5	7428.8	6265.3	5568.7	5272.5	5255.9
72.5°	3092.4	3201.4	3594.8	4556.8	5959.7	6962.0	5895.7	4635.0	3796.2	3327.0	3338.8
75°	1409.9	1490.5	1760.6	2545.0	3971.5	5090.0	3995.2	2680.1	1921.8	1623.2	1580.6
77.5°	395.7	445.5	594.8	1168.2	2180.1	3052.1	2241.7	1291.5	838.9	696.7	682.5
80°	177.7	187.2	210.9	284.4	691.9	1346.0	926.5	473.9	315.2	260.7	248.8
82.5°	97.2	104.3	137.4	146.9	196.7	357.8	305.7	222.7	189.6	151.7	146.9
85°	54.5	56.9	78.2	78.2	94.8	104.3	111.4	118.5	116.1	85.3	82.9
87.5°	16.6	19.0	23.7	23.7	23.7	23.7	37.9	52.1	56.9	40.3	40.3
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)