

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: P479837

Luminaire Tested: **IFLD-S-SA3E-827-U-5WQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479837
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-827-U-5WQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5WQ distribution lens
Light Source: (48) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

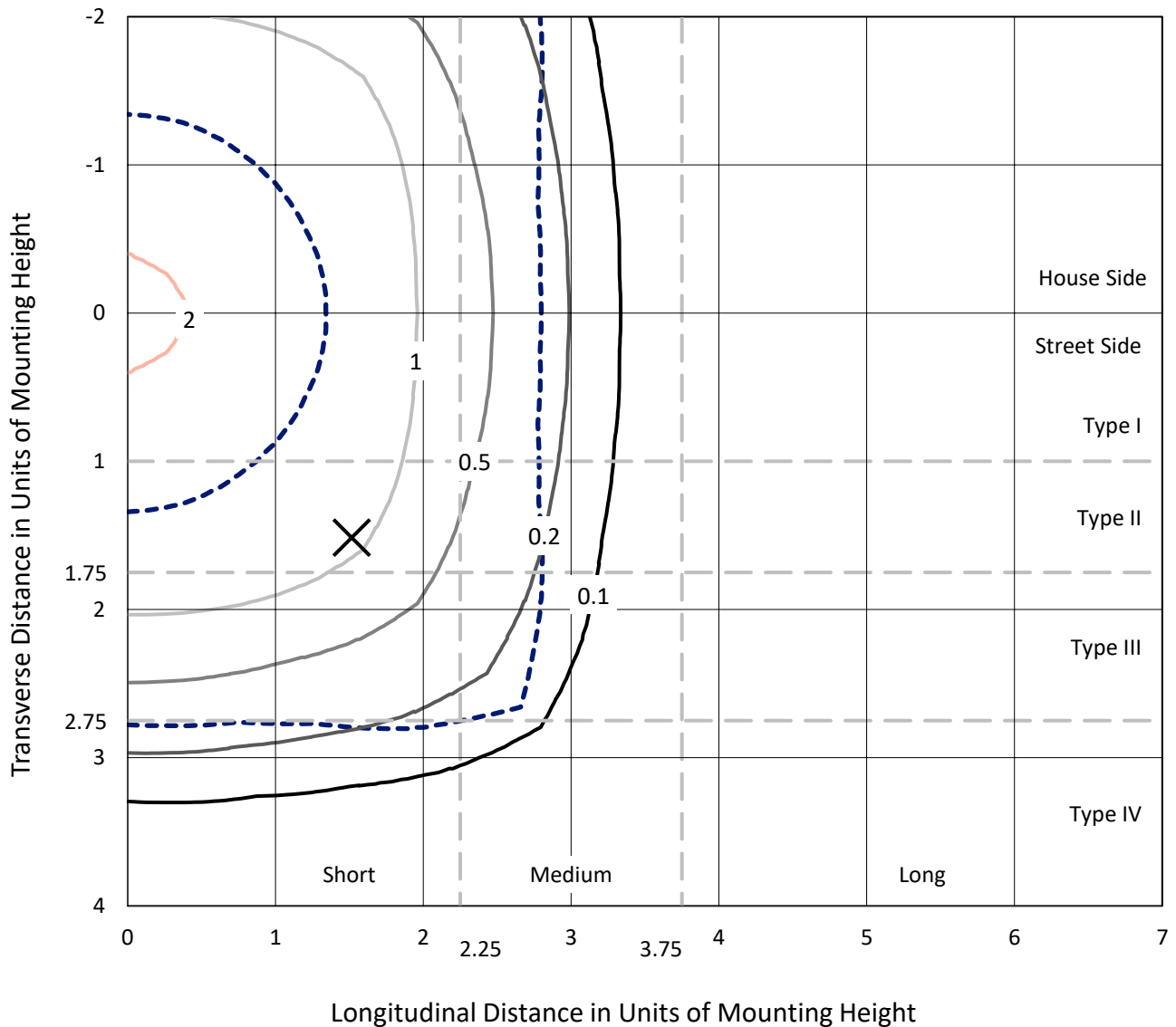
Lumens per Lamp: N/A
Luminaire Lumens: 20347.4 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 232.1
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

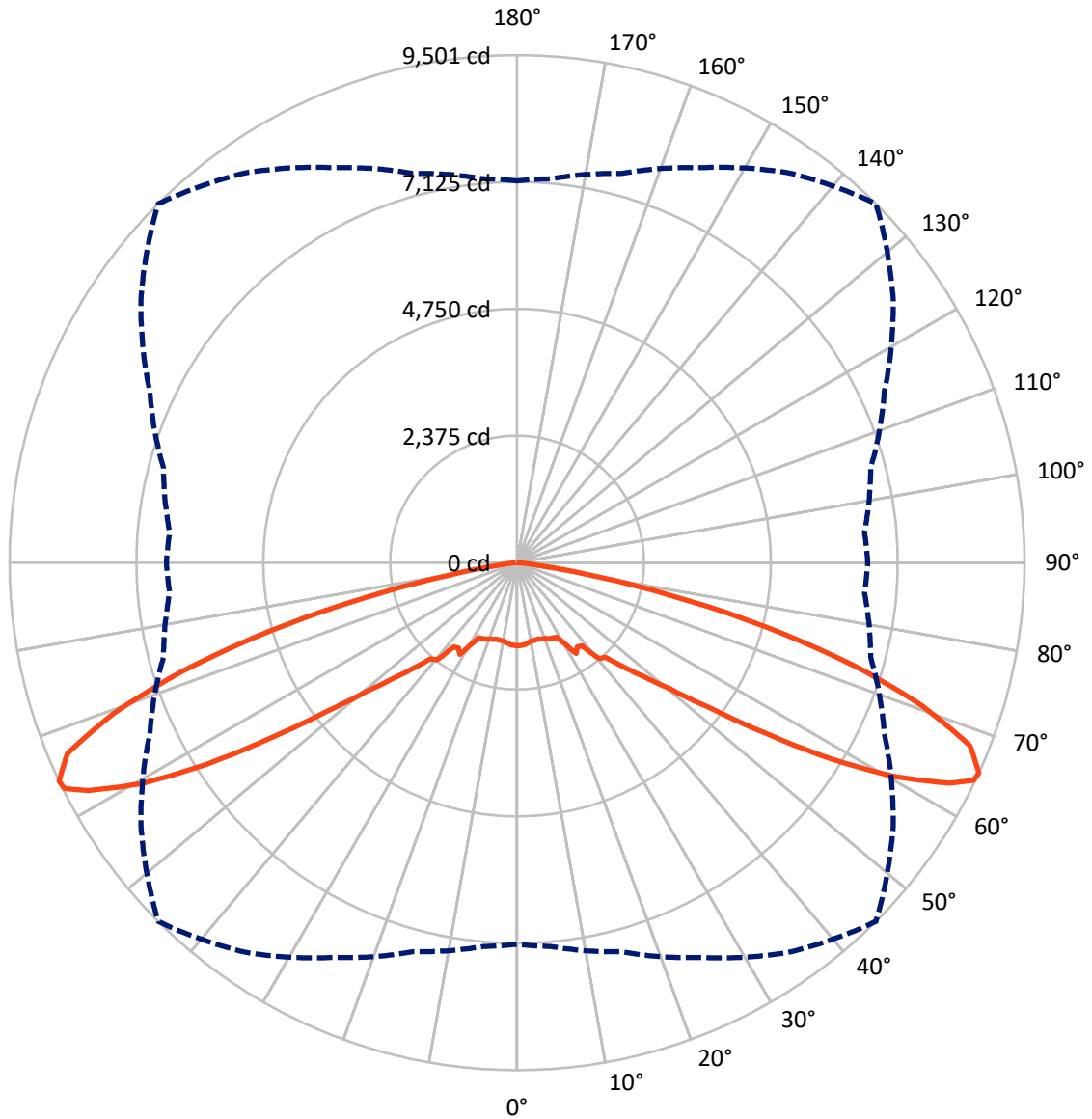
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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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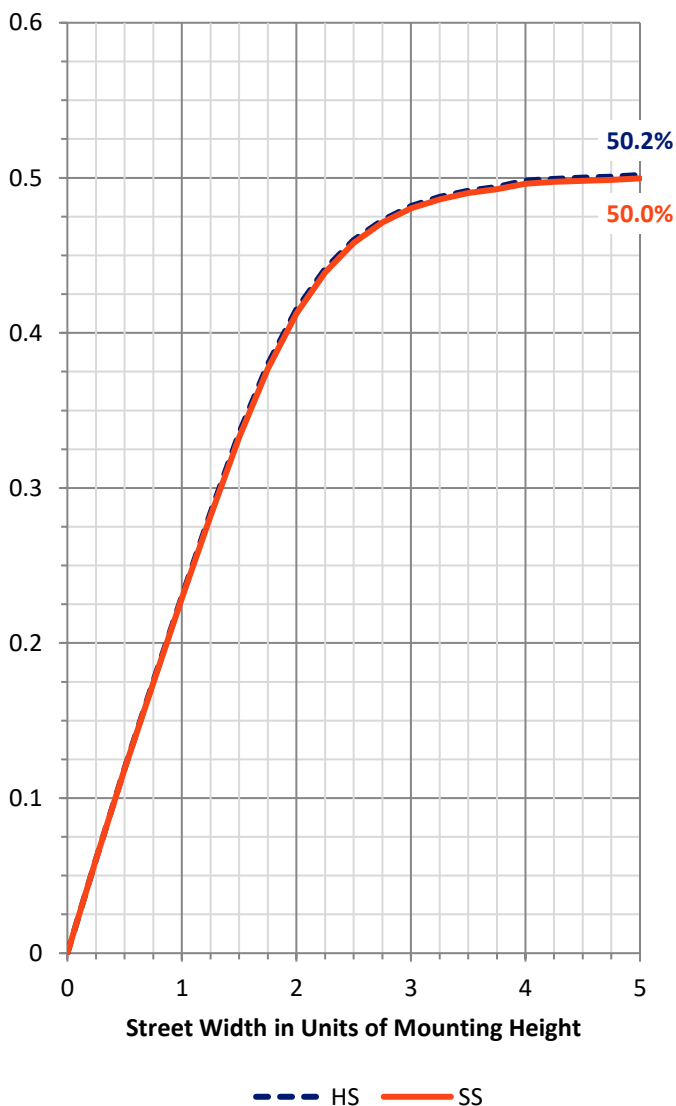
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10173.7	0.0	10173.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10173.7	0.0	10173.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	20347.4	0.0	20347.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.0	0.7
10°-20°	428.8	2.1
20°-30°	742.3	3.6
30°-40°	1234.3	6.1
40°-50°	2226.8	10.9
50°-60°	4960.7	24.4
60°-70°	7393.0	36.3
70°-80°	3063.7	15.1
80°-90°	151.8	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°	20347.4	100.0
0°-180°	20347.4	100.0



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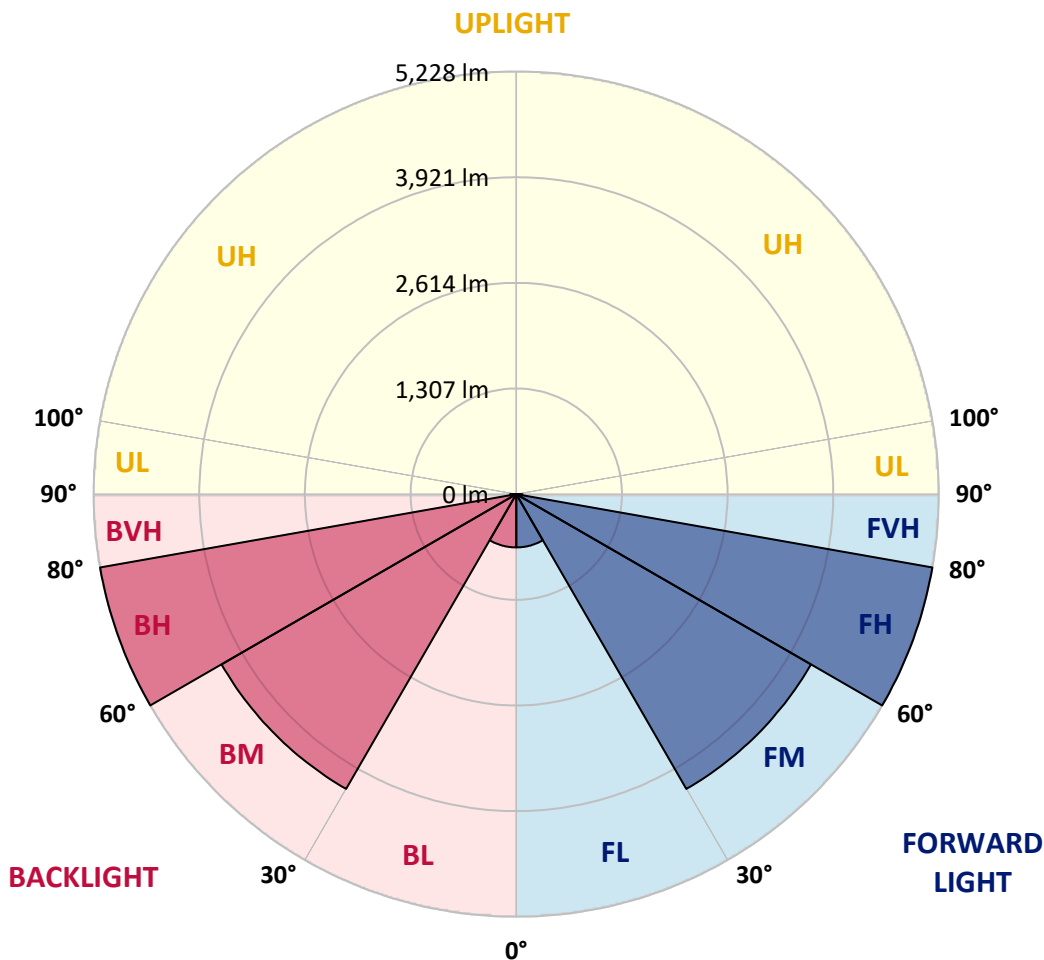
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	658.6	3.2			
FM (30°-60°)	4210.9	20.7			
FH (60°-80°)	5228.4	25.7			G3/7500
FVH (80°-90°)	75.9	0.4			G1/100
BL (0°-30°)	658.6	3.2	B2/1000		
BM (30°-60°)	4210.9	20.7	B3/5000		
BH (60°-80°)	5228.4	25.7	B5		G3/7500
BVH (80°-90°)	75.9	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°	1555.7	1555.7	1555.7	1555.7	1555.7	1555.7	1555.7	1555.7	1555.7	1555.7	1555.7
2.5°	1537.7	1542.2	1539.9	1539.9	1546.7	1551.2	1553.4	1575.9	1566.9	1573.7	1566.9
5°	1542.2	1542.2	1546.7	1542.2	1546.7	1542.2	1546.7	1539.9	1546.7	1551.2	1557.9
7.5°	1533.2	1528.7	1522.0	1522.0	1519.7	1515.2	1508.5	1526.5	1517.5	1524.2	1535.5
10°	1535.5	1528.7	1506.2	1510.7	1490.5	1490.5	1495.0	1495.0	1515.2	1537.7	1544.4
12.5°	1535.5	1522.0	1515.2	1486.0	1486.0	1488.2	1499.5	1504.0	1517.5	1526.5	1548.9
15°	1535.5	1528.7	1517.5	1479.2	1488.2	1483.7	1495.0	1495.0	1524.2	1539.9	1551.2
17.5°	1544.4	1548.9	1528.7	1492.7	1495.0	1504.0	1497.2	1504.0	1539.9	1551.2	1566.9
20°	1546.7	1528.7	1522.0	1499.5	1519.7	1515.2	1513.0	1526.5	1537.7	1557.9	1575.9
22.5°	1542.2	1548.9	1522.0	1519.7	1537.7	1546.7	1551.2	1535.5	1548.9	1562.4	1578.2
25°	1580.4	1555.7	1548.9	1544.4	1553.4	1562.4	1557.9	1571.4	1571.4	1587.2	1607.4
27.5°	1683.8	1686.1	1672.6	1618.6	1600.6	1580.4	1589.4	1625.4	1668.1	1701.8	1708.6
30°	1731.0	1740.0	1776.0	1767.0	1760.3	1767.0	1764.8	1773.8	1778.2	1780.5	1773.8
32.5°	1773.8	1769.3	1753.5	1794.0	1926.6	2027.8	1931.1	1798.5	1769.3	1760.3	1769.3
35°	1928.9	1928.9	1895.1	1843.4	1913.1	1937.9	1892.9	1830.0	1865.9	1940.1	1944.6
37.5°	2129.0	2099.7	2113.2	2106.5	2030.0	1976.1	2054.8	2095.2	2102.0	2099.7	2122.2
40°	2248.1	2227.9	2207.6	2243.6	2313.3	2362.8	2293.1	2196.4	2221.1	2270.6	2250.3
42.5°	2520.1	2468.4	2472.9	2436.9	2434.7	2419.0	2403.2	2410.0	2445.9	2502.1	2511.1
45°	2798.9	2823.6	2807.9	2740.4	2771.9	2771.9	2726.9	2760.7	2778.7	2843.8	2852.8
47.5°	3235.0	3223.8	3230.5	3169.8	3167.6	3183.3	3167.6	3169.8	3226.0	3221.5	3196.8
50°	3745.3	3776.8	3785.8	3756.6	3720.6	3713.9	3689.1	3720.6	3754.3	3756.6	3736.3
52.5°	4451.2	4485.0	4485.0	4494.0	4538.9	4516.4	4511.9	4514.2	4449.0	4404.0	4426.5
55°	5341.5	5352.7	5390.9	5469.6	5606.8	5624.7	5539.3	5501.1	5382.0	5310.0	5366.2
57.5°	6220.5	6265.5	6371.1	6575.7	6744.3	6928.6	6681.4	6429.6	6195.8	6081.1	6101.3
60°	6951.1	7016.3	7218.6	7504.2	7971.8	8140.4	7722.2	7290.6	6816.2	6465.5	6607.2
62.5°	7295.1	7396.2	7567.1	8144.9	8846.3	9089.1	8475.3	7690.7	6971.4	6634.1	6627.4
64°	7297.3	7313.1	7654.8	8277.5	8999.1	9469.0	8657.4	7690.7	7009.6	6593.7	6670.1
65°	7146.7	7211.9	7542.4	8156.1	8902.5	9500.5	8594.5	7585.1	6852.2	6528.5	6564.5
67.5°	6463.3	6461.0	6766.8	7376.0	8412.4	9143.0	8059.4	6993.8	6463.3	6112.6	6155.3
70°	4903.1	4981.8	5274.0	6022.7	7279.3	8061.7	7047.8	5944.0	5283.0	5002.0	4986.3
72.5°	2933.8	3037.2	3410.4	4323.1	5654.0	6604.9	5593.3	4397.3	3601.5	3156.3	3167.6
75°	1337.6	1414.1	1670.3	2414.5	3767.8	4828.9	3790.3	2542.6	1823.2	1539.9	1499.5
77.5°	375.4	422.6	564.3	1108.3	2068.3	2895.6	2126.7	1225.2	795.8	660.9	647.5
80°	168.6	177.6	200.1	269.8	656.4	1276.9	879.0	449.6	299.0	247.3	236.1
82.5°	92.2	98.9	130.4	139.4	186.6	339.5	290.0	211.3	179.8	143.9	139.4
85°	51.7	54.0	74.2	74.2	89.9	98.9	105.7	112.4	110.2	80.9	78.7
87.5°	15.7	18.0	22.5	22.5	22.5	22.5	36.0	49.5	54.0	38.2	38.2
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)