

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: P479754

Luminaire Tested: **IFLD-S-SA2E-750-U-5WQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479754
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-750-U-5WQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5WQ distribution lens
Light Source: (32) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

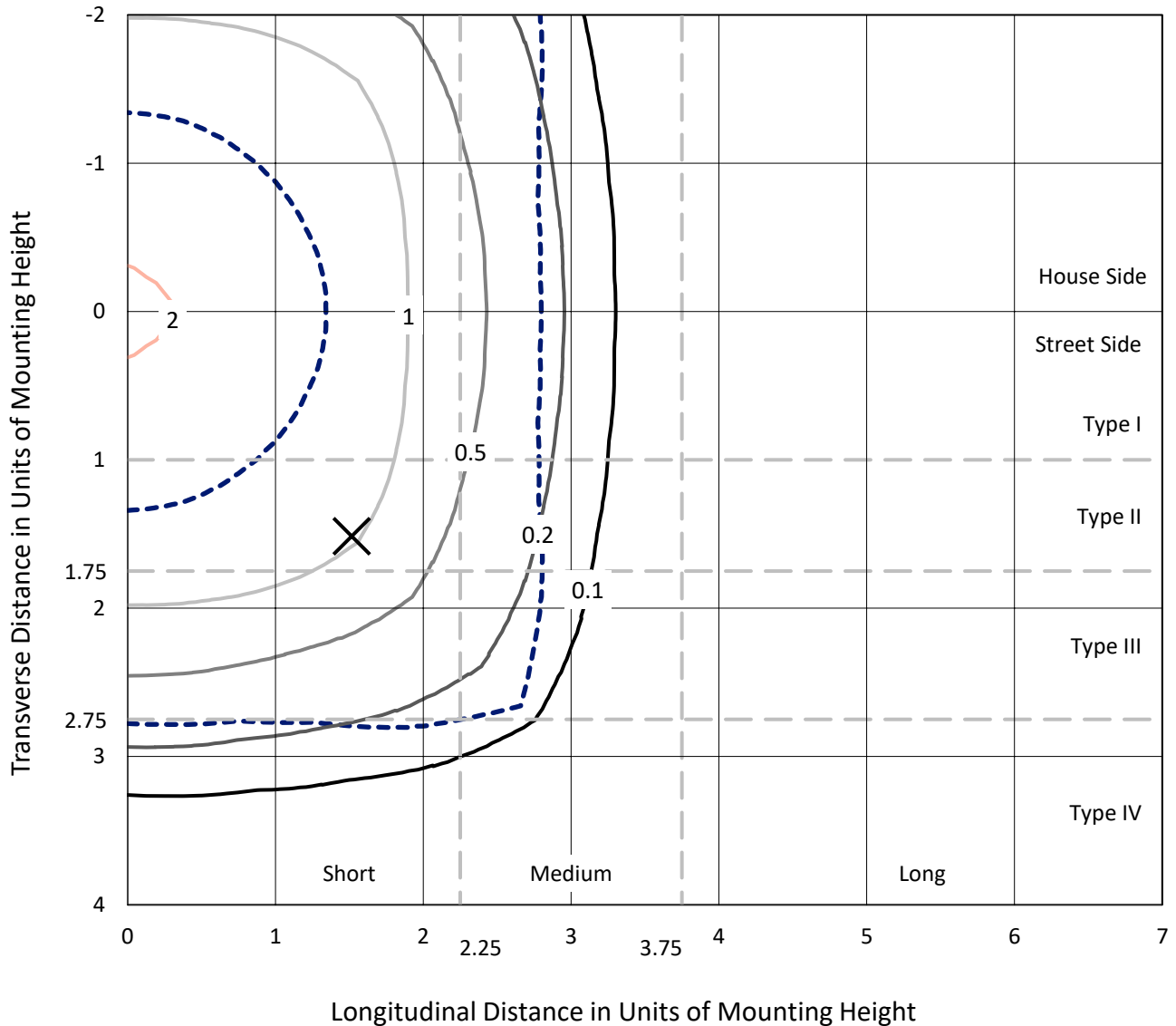
Lumens per Lamp: N/A
Luminaire Lumens: 18998.8 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 156.2
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

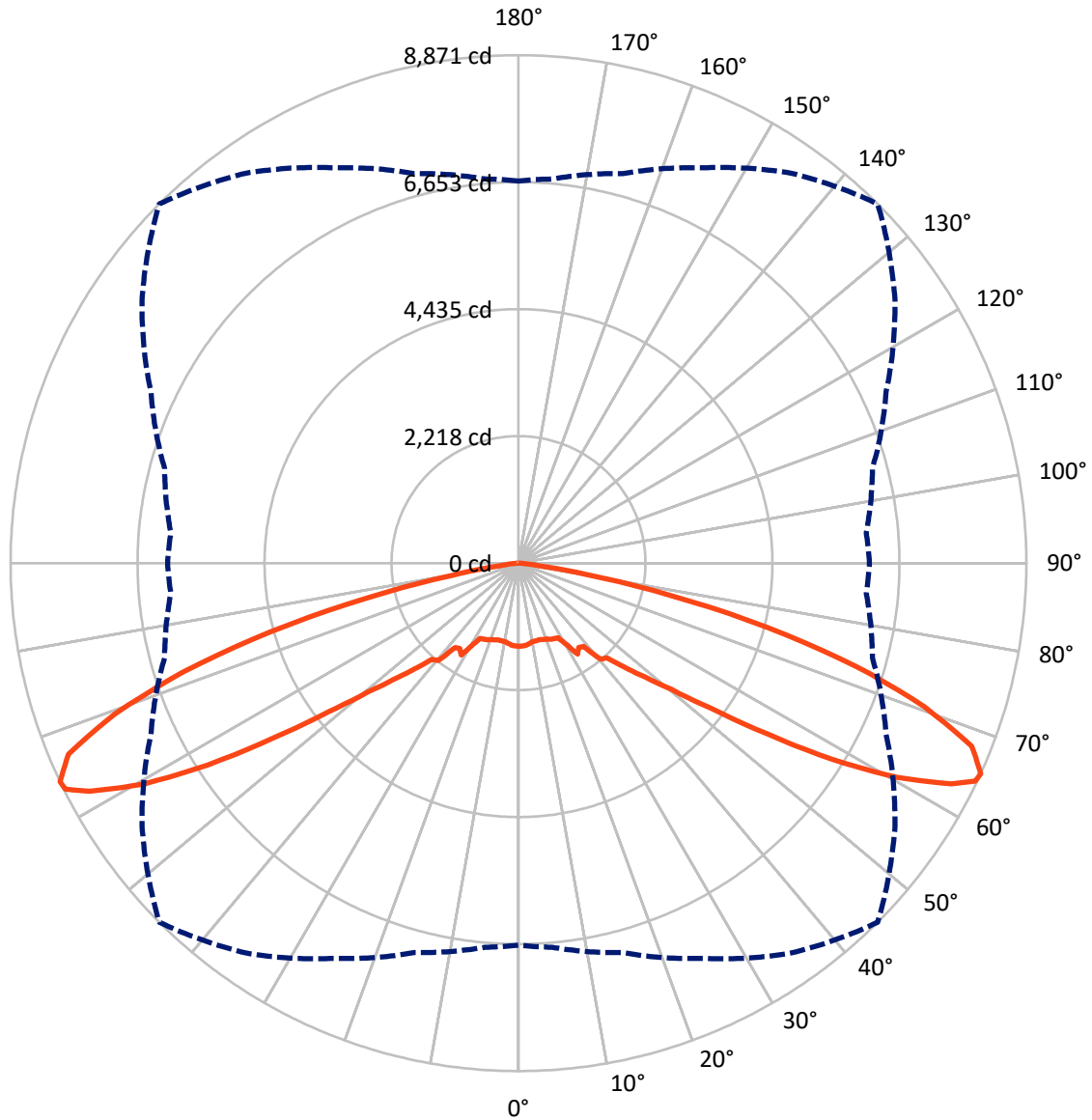
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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
House Side	Lumens	9499.4	0.0	9499.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9499.4	0.0	9499.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	18998.8	0.0	18998.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.3	0.7
10°-20°	400.4	2.1
20°-30°	693.1	3.6
30°-40°	1152.5	6.1
40°-50°	2079.2	10.9
50°-60°	4631.9	24.4
60°-70°	6903.0	36.3
70°-80°	2860.7	15.1
80°-90°	141.7	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°	18998.8	100.0
0°-180°	18998.8	100.0

Coefficient of Utilization



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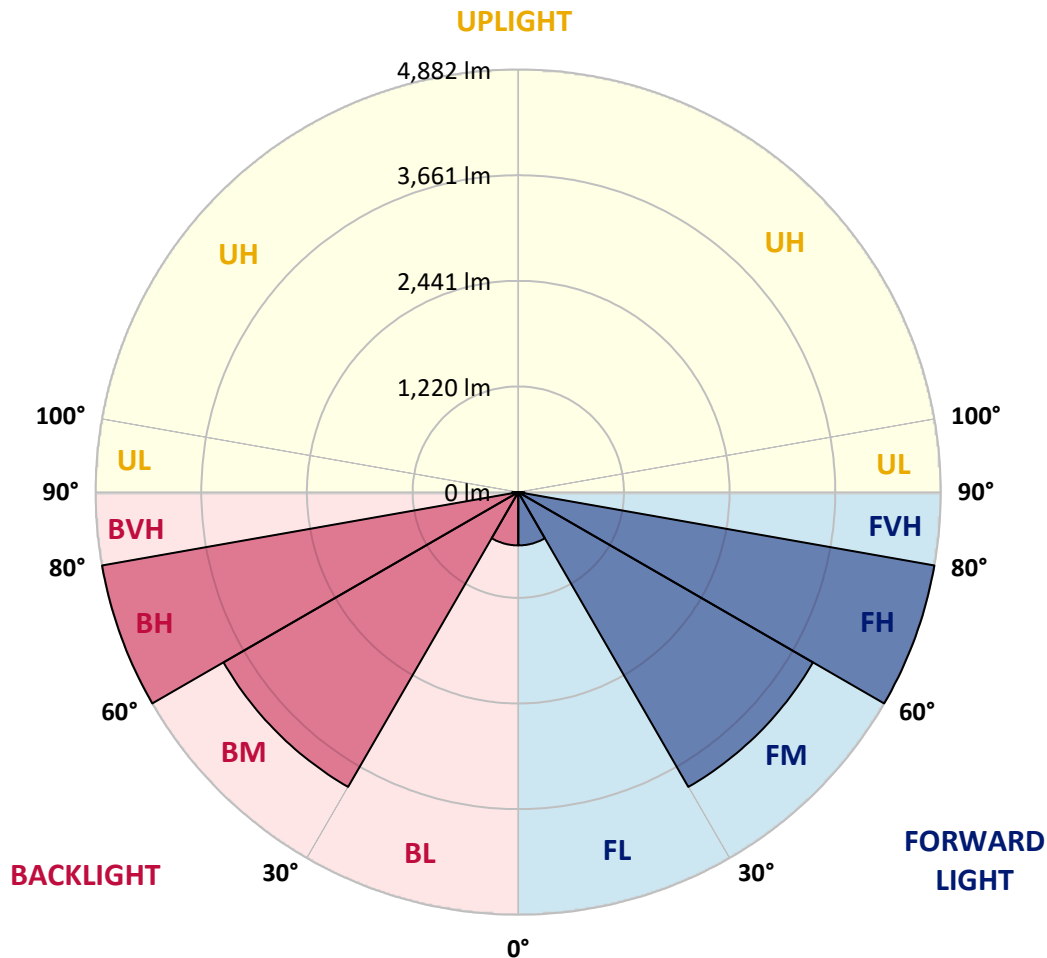
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	614.9	3.2			
FM (30°-60°)	3931.8	20.7			
FH (60°-80°)	4881.8	25.7			G2/5000
FVH (80°-90°)	70.8	0.4			G1/100
BL (0°-30°)	614.9	3.2	B2/1000		
BM (30°-60°)	3931.8	20.7	B3/5000		
BH (60°-80°)	4881.8	25.7	B4/5000		G2/5000
BVH (80°-90°)	70.8	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1452.6	1452.6	1452.6	1452.6	1452.6	1452.6	1452.6	1452.6	1452.6	1452.6	1452.6
2.5°	1435.8	1440.0	1437.9	1437.9	1444.2	1448.4	1450.5	1471.5	1463.1	1469.4	1463.1
5°	1440.0	1440.0	1444.2	1440.0	1444.2	1440.0	1444.2	1437.9	1444.2	1448.4	1454.7
7.5°	1431.6	1427.4	1421.1	1421.1	1419.0	1414.8	1408.5	1425.3	1416.9	1423.2	1433.7
10°	1433.7	1427.4	1406.4	1410.6	1391.7	1391.7	1395.9	1395.9	1414.8	1435.8	1442.1
12.5°	1433.7	1421.1	1414.8	1387.5	1387.5	1389.6	1400.1	1404.3	1416.9	1425.3	1446.3
15°	1433.7	1427.4	1416.9	1381.2	1389.6	1385.4	1395.9	1395.9	1423.2	1437.9	1448.4
17.5°	1442.1	1446.3	1427.4	1393.8	1395.9	1404.3	1398.0	1404.3	1437.9	1448.4	1463.1
20°	1444.2	1427.4	1421.1	1400.1	1419.0	1414.8	1412.7	1425.3	1435.8	1454.7	1471.5
22.5°	1440.0	1446.3	1421.1	1419.0	1435.8	1444.2	1448.4	1433.7	1446.3	1458.9	1473.6
25°	1475.7	1452.6	1446.3	1442.1	1450.5	1458.9	1454.7	1467.3	1467.3	1482.0	1500.8
27.5°	1572.2	1574.3	1561.7	1511.3	1494.6	1475.7	1484.1	1517.6	1557.5	1589.0	1595.3
30°	1616.3	1624.7	1658.3	1649.9	1643.6	1649.9	1647.8	1656.2	1660.4	1662.5	1656.2
32.5°	1656.2	1652.0	1637.3	1675.1	1798.9	1893.4	1803.1	1679.3	1652.0	1643.6	1652.0
35°	1801.0	1801.0	1769.5	1721.3	1786.3	1809.4	1767.4	1708.7	1742.2	1811.5	1815.7
37.5°	1987.8	1960.5	1973.1	1966.8	1895.5	1845.1	1918.6	1956.4	1962.6	1960.5	1981.5
40°	2099.1	2080.2	2061.3	2094.9	2160.0	2206.1	2141.1	2050.8	2073.9	2120.1	2101.2
42.5°	2353.1	2304.8	2309.0	2275.4	2273.3	2258.6	2243.9	2250.2	2283.8	2336.3	2344.7
45°	2613.4	2636.5	2621.8	2558.8	2588.2	2588.2	2546.2	2577.7	2594.5	2655.3	2663.7
47.5°	3020.6	3010.1	3016.4	2959.7	2957.6	2972.3	2957.6	2959.7	3012.2	3008.0	2984.9
50°	3497.1	3526.5	3534.9	3507.6	3474.0	3467.7	3444.6	3474.0	3505.5	3507.6	3488.7
52.5°	4156.2	4187.7	4187.7	4196.1	4238.1	4217.1	4212.9	4215.0	4154.1	4112.1	4133.1
55°	4987.4	4997.9	5033.6	5107.1	5235.1	5251.9	5172.2	5136.5	5025.2	4958.0	5010.5
57.5°	5808.2	5850.2	5948.8	6139.8	6297.3	6469.4	6238.5	6003.4	5785.1	5678.0	5696.9
60°	6490.4	6551.3	6740.2	7006.8	7443.4	7600.8	7210.4	6807.3	6364.4	6037.0	6169.2
62.5°	6811.5	6906.0	7065.5	7605.0	8259.9	8486.6	7913.6	7181.0	6509.3	6194.4	6188.1
64°	6813.6	6828.3	7147.4	7728.8	8402.7	8841.4	8083.6	7181.0	6545.0	6156.6	6228.0
65°	6673.0	6733.9	7042.4	7615.5	8312.4	8870.8	8024.8	7082.3	6398.0	6095.8	6129.3
67.5°	6034.9	6032.8	6318.3	6887.1	7854.8	8537.0	7525.2	6530.3	6034.9	5707.4	5747.3
70°	4578.1	4651.6	4924.5	5623.5	6796.9	7527.3	6580.6	5550.0	4932.9	4670.5	4655.8
72.5°	2739.3	2835.9	3184.3	4036.5	5279.2	6167.1	5222.5	4105.8	3362.7	2947.1	2957.6
75°	1249.0	1320.3	1559.6	2254.4	3518.1	4508.8	3539.1	2374.1	1702.4	1437.9	1400.1
77.5°	350.5	394.6	526.9	1034.9	1931.2	2703.6	1985.7	1144.0	743.1	617.1	604.5
80°	157.4	165.8	186.8	251.9	612.9	1192.3	820.7	419.8	279.2	230.9	220.4
82.5°	86.1	92.4	121.7	130.1	174.2	317.0	270.8	197.3	167.9	134.3	130.1
85°	48.3	50.4	69.3	69.3	84.0	92.4	98.7	105.0	102.9	75.6	73.5
87.5°	14.7	16.8	21.0	21.0	21.0	21.0	33.6	46.2	50.4	35.7	35.7
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)