

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: P479620

Luminaire Tested: **IFLD-M-SA4B-727-U-5WQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479620
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-727-U-5WQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5WQ distribution lens
Light Source: (64) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

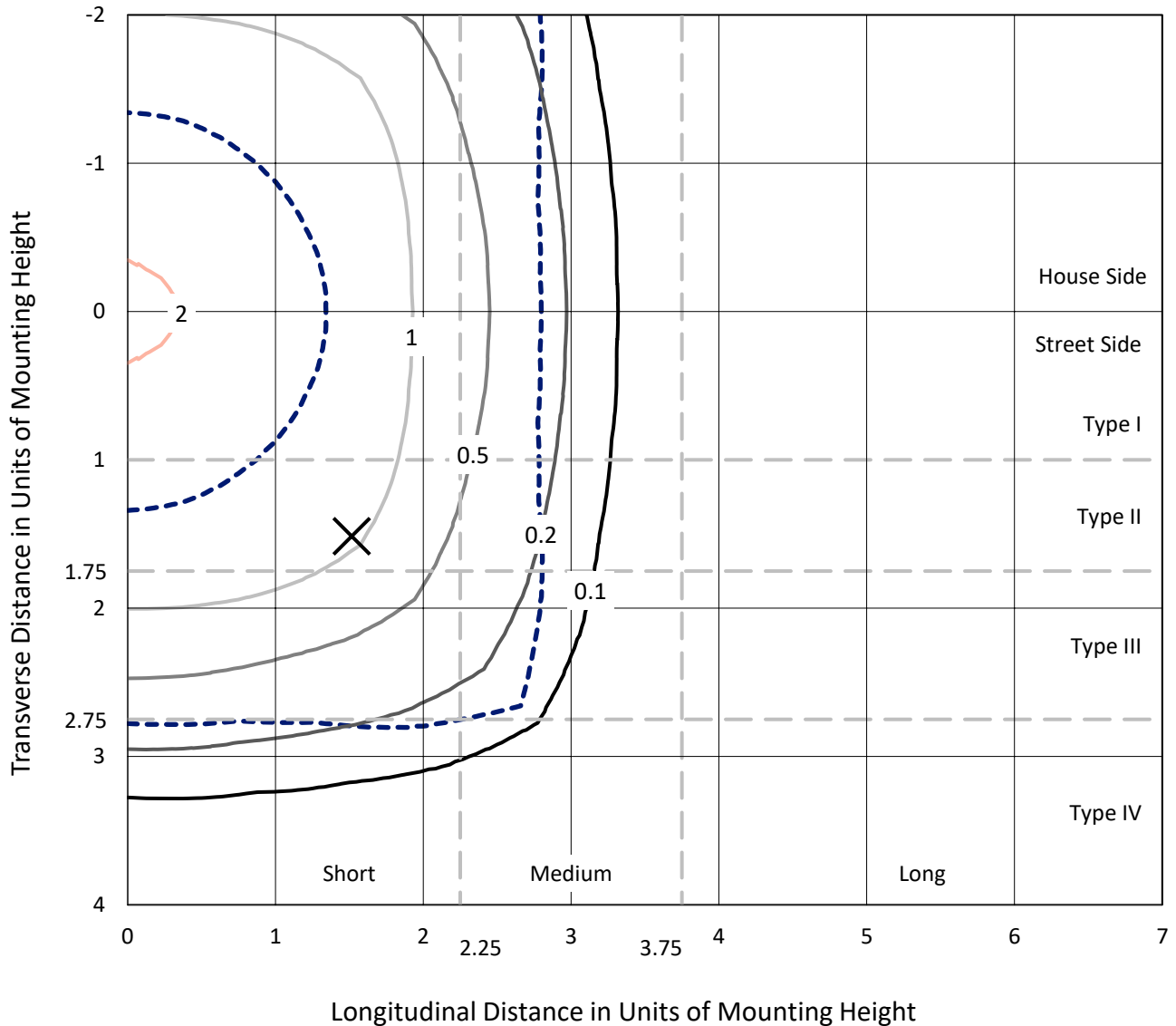
Lumens per Lamp: N/A
Luminaire Lumens: 19600.9 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 166.1
Input Voltage (V): 120
Input Current (A_{in}): 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

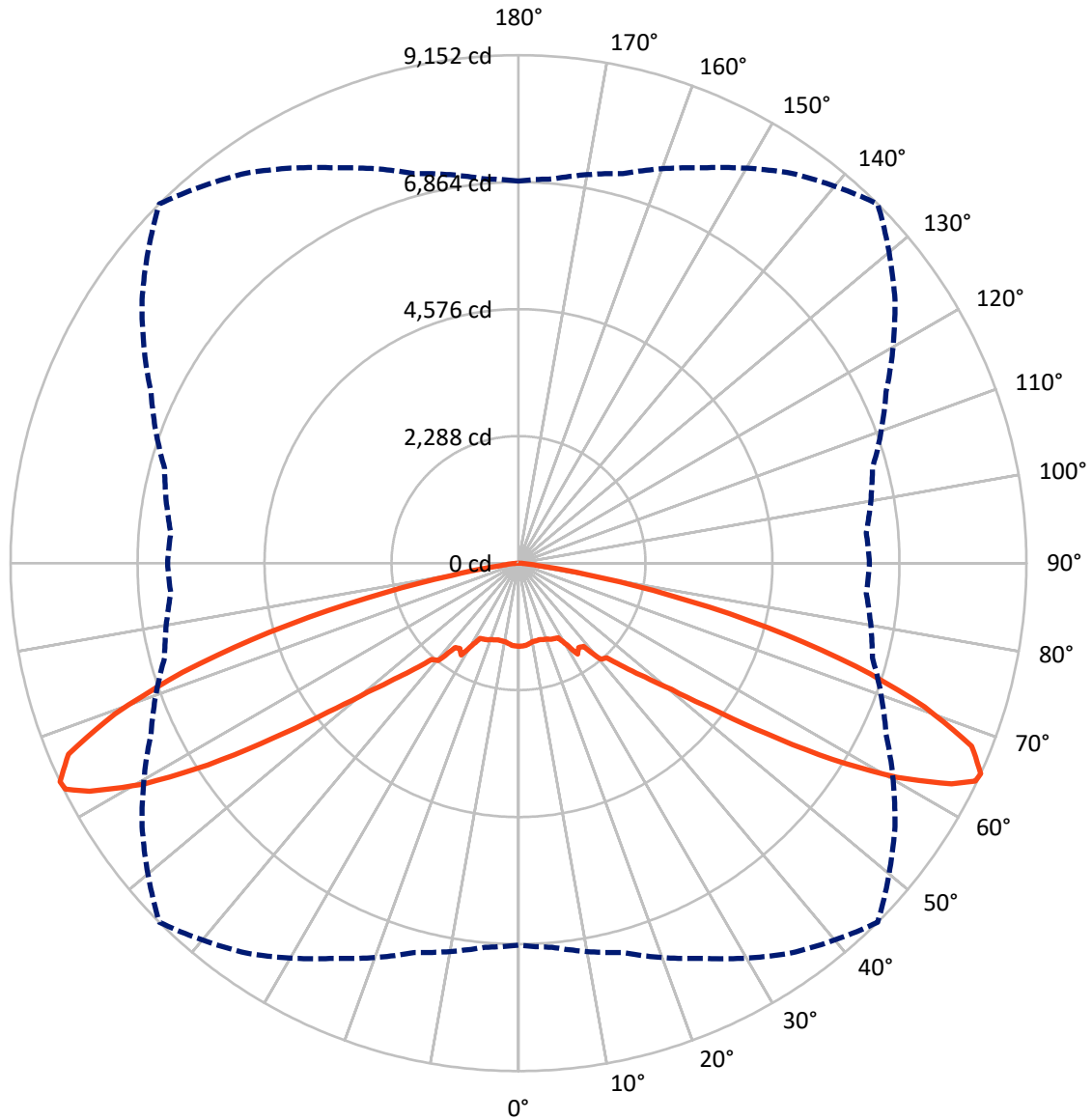
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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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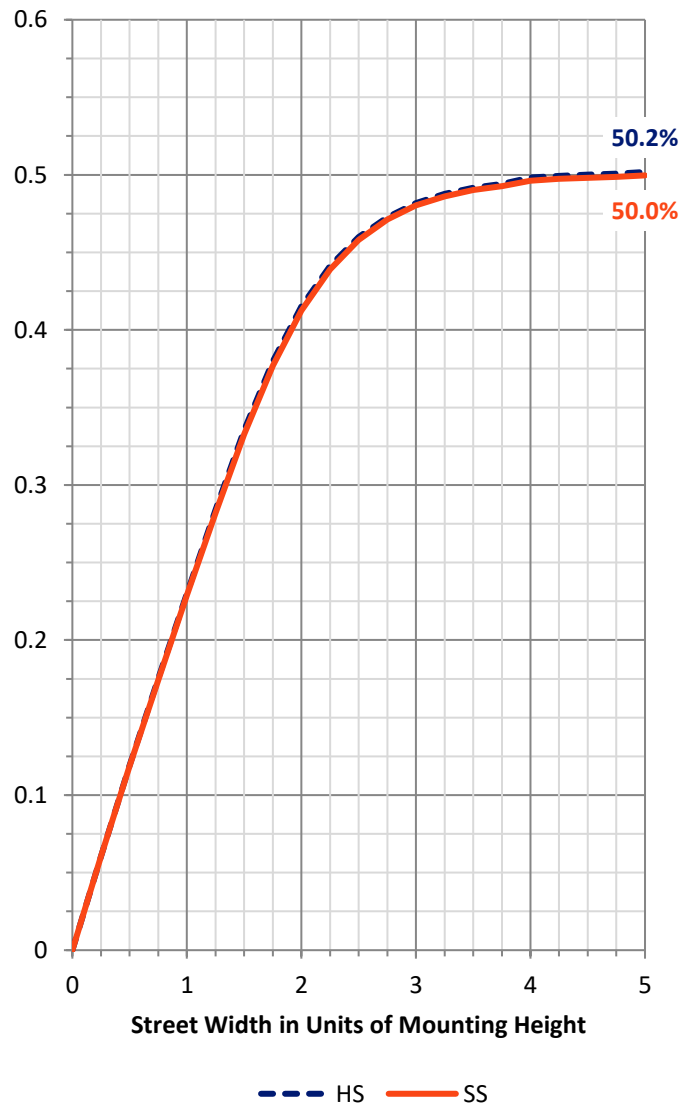
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9800.4	0.0	9800.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9800.4	0.0	9800.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	19600.9	0.0	19600.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.6	0.7
10°-20°	413.1	2.1
20°-30°	715.1	3.6
30°-40°	1189.0	6.1
40°-50°	2145.1	10.9
50°-60°	4778.7	24.4
60°-70°	7121.8	36.3
70°-80°	2951.3	15.1
80°-90°	146.2	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°	19600.9	100.0
0°-180°	19600.9	100.0

Coefficient of Utilization



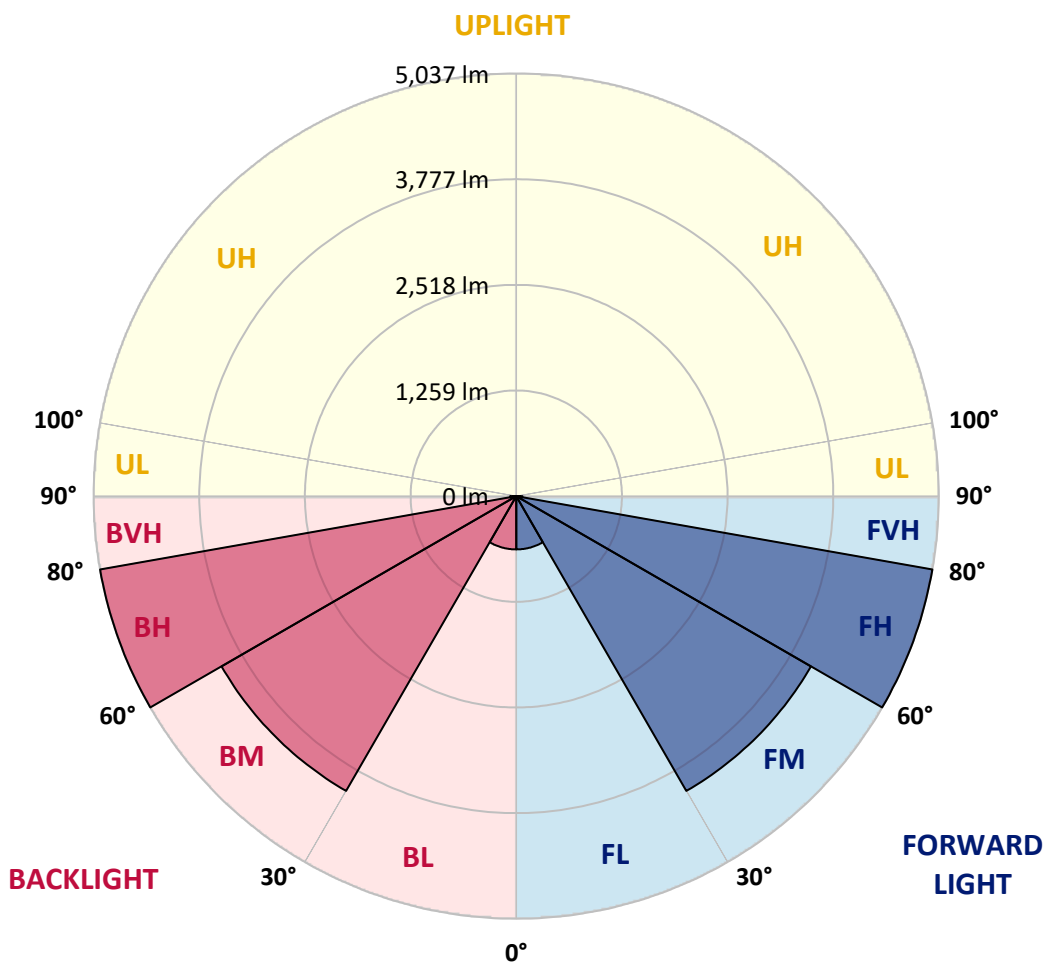
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	634.4	3.2			
FM (30°-60°)	4056.4	20.7			
FH (60°-80°)	5036.5	25.7			G3/7500
FVH (80°-90°)	73.1	0.4			G1/100
BL (0°-30°)	634.4	3.2	B2/1000		
BM (30°-60°)	4056.4	20.7	B3/5000		
BH (60°-80°)	5036.5	25.7	B5		G3/7500
BVH (80°-90°)	73.1	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°	1498.6	1498.6	1498.6	1498.6	1498.6	1498.6	1498.6	1498.6	1498.6	1498.6	1498.6
2.5°	1481.3	1485.6	1483.4	1483.4	1489.9	1494.3	1496.4	1518.1	1509.4	1515.9	1509.4
5°	1485.6	1485.6	1489.9	1485.6	1489.9	1485.6	1489.9	1483.4	1489.9	1494.3	1500.8
7.5°	1477.0	1472.6	1466.1	1466.1	1464.0	1459.6	1453.1	1470.5	1461.8	1468.3	1479.1
10°	1479.1	1472.6	1451.0	1455.3	1435.8	1435.8	1440.1	1440.1	1459.6	1481.3	1487.8
12.5°	1479.1	1466.1	1459.6	1431.5	1431.5	1433.6	1444.5	1448.8	1461.8	1470.5	1492.1
15°	1479.1	1472.6	1461.8	1425.0	1433.6	1429.3	1440.1	1440.1	1468.3	1483.4	1494.3
17.5°	1487.8	1492.1	1472.6	1438.0	1440.1	1448.8	1442.3	1448.8	1483.4	1494.3	1509.4
20°	1489.9	1472.6	1466.1	1444.5	1464.0	1459.6	1457.5	1470.5	1481.3	1500.8	1518.1
22.5°	1485.6	1492.1	1466.1	1464.0	1481.3	1489.9	1494.3	1479.1	1492.1	1505.1	1520.3
25°	1522.4	1498.6	1492.1	1487.8	1496.4	1505.1	1500.8	1513.8	1513.8	1528.9	1548.4
27.5°	1622.0	1624.2	1611.2	1559.2	1541.9	1522.4	1531.1	1565.7	1606.9	1639.4	1645.9
30°	1667.5	1676.2	1710.8	1702.2	1695.7	1702.2	1700.0	1708.7	1713.0	1715.2	1708.7
32.5°	1708.7	1704.3	1689.2	1728.2	1855.9	1953.4	1860.3	1732.5	1704.3	1695.7	1704.3
35°	1858.1	1858.1	1825.6	1775.8	1842.9	1866.8	1823.5	1762.8	1797.5	1868.9	1873.3
37.5°	2050.8	2022.7	2035.7	2029.2	1955.6	1903.6	1979.4	2018.4	2024.9	2022.7	2044.3
40°	2165.6	2146.1	2126.6	2161.3	2228.4	2276.1	2208.9	2115.8	2139.6	2187.3	2167.8
42.5°	2427.7	2377.8	2382.2	2347.5	2345.4	2330.2	2315.0	2321.5	2356.2	2410.3	2419.0
45°	2696.2	2720.0	2704.9	2639.9	2670.2	2670.2	2626.9	2659.4	2676.7	2739.5	2748.2
47.5°	3116.3	3105.5	3112.0	3053.5	3051.4	3066.5	3051.4	3053.5	3107.7	3103.3	3079.5
50°	3607.9	3638.2	3646.9	3618.7	3584.1	3577.6	3553.8	3584.1	3616.6	3618.7	3599.3
52.5°	4287.9	4320.4	4320.4	4329.1	4372.4	4350.7	4346.4	4348.6	4285.8	4242.4	4264.1
55°	5145.5	5156.3	5193.2	5268.9	5401.1	5418.4	5336.1	5299.3	5184.5	5115.2	5169.3
57.5°	5992.3	6035.6	6137.4	6334.4	6496.9	6674.4	6436.2	6193.7	5968.4	5858.0	5877.5
60°	6696.1	6758.9	6953.8	7228.8	7679.3	7841.7	7438.9	7023.1	6566.2	6228.3	6364.8
62.5°	7027.4	7124.9	7289.5	7846.0	8521.7	8755.6	8164.4	7408.6	6715.6	6390.7	6384.2
64°	7029.6	7044.8	7373.9	7973.8	8669.0	9121.6	8339.8	7408.6	6752.4	6351.8	6425.4
65°	6884.5	6947.3	7265.6	7856.9	8575.8	9151.9	8279.2	7306.8	6600.8	6289.0	6323.6
67.5°	6226.2	6224.0	6518.5	7105.4	8103.7	8807.6	7763.7	6737.2	6226.2	5888.3	5929.5
70°	4723.2	4799.0	5080.5	5801.7	7012.3	7765.9	6789.2	5725.9	5089.2	4818.5	4803.3
72.5°	2826.1	2925.8	3285.2	4164.5	5446.5	6362.6	5388.1	4235.9	3469.3	3040.5	3051.4
75°	1288.5	1362.2	1609.1	2325.9	3629.6	4651.7	3651.2	2449.3	1756.3	1483.4	1444.5
77.5°	361.7	407.1	543.6	1067.6	1992.4	2789.3	2048.7	1180.3	766.6	636.7	623.7
80°	162.4	171.1	192.7	259.9	632.4	1230.1	846.8	433.1	288.0	238.2	227.4
82.5°	88.8	95.3	125.6	134.3	179.7	327.0	279.4	203.6	173.2	138.6	134.3
85°	49.8	52.0	71.5	71.5	86.6	95.3	101.8	108.3	106.1	78.0	75.8
87.5°	15.2	17.3	21.7	21.7	21.7	21.7	34.6	47.6	52.0	36.8	36.8
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)