

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: P479598

Luminaire Tested: **IFLD-S-SA2E-727-U-5WQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479598
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-727-U-5WQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5WQ distribution lens
Light Source: (32) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

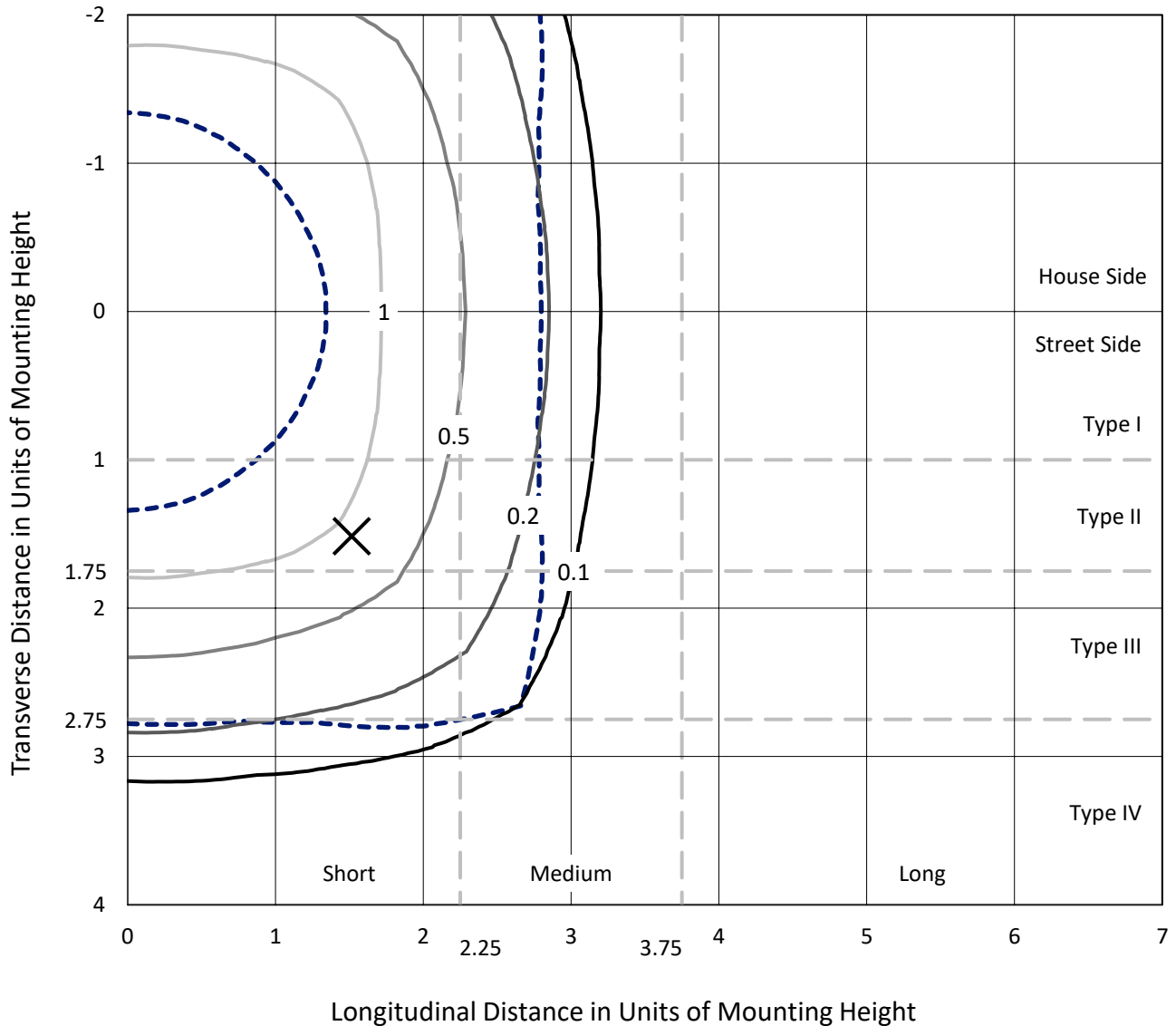
Lumens per Lamp: N/A
Luminaire Lumens: 15532.9 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

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

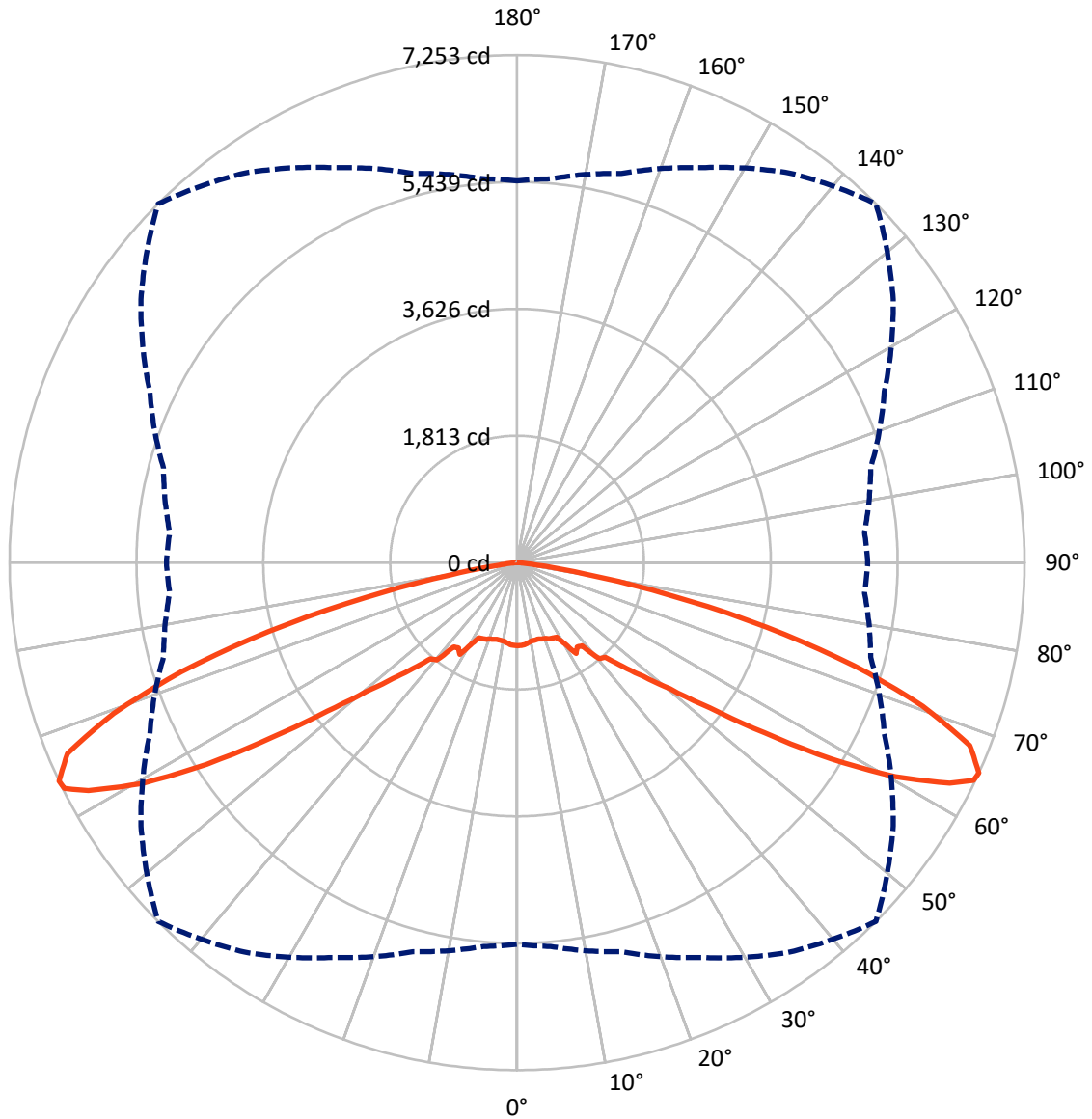
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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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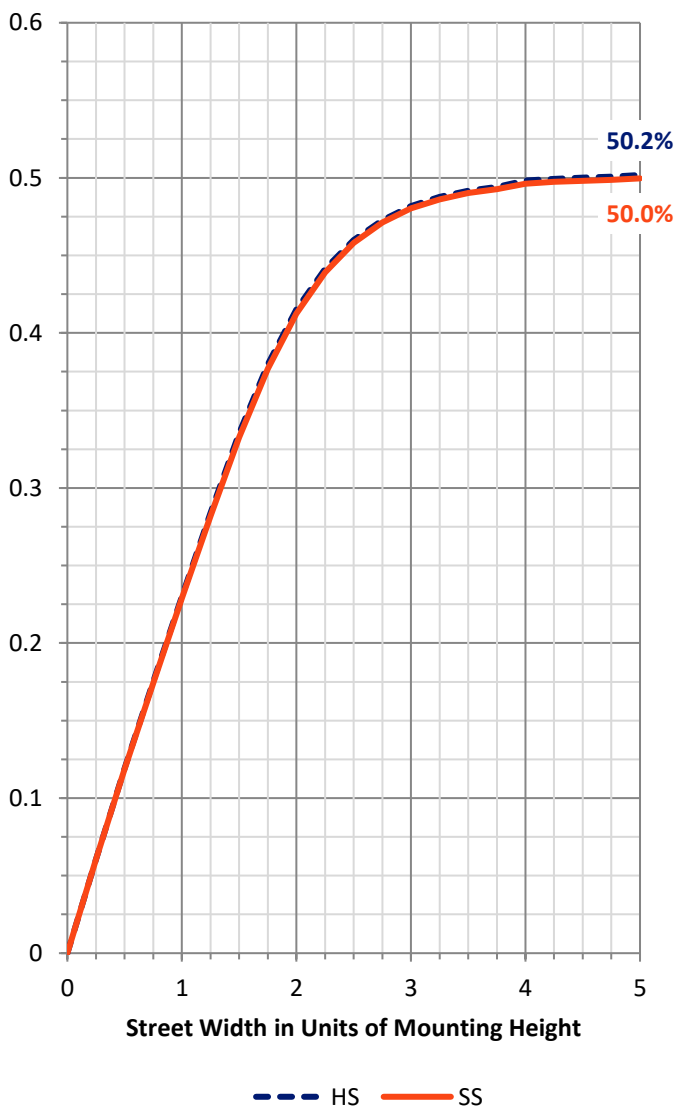
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7766.5	0.0	7766.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7766.5	0.0	7766.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	15532.9	0.0	15532.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.4	0.7
10°-20°	327.4	2.1
20°-30°	566.7	3.6
30°-40°	942.2	6.1
40°-50°	1699.9	10.9
50°-60°	3786.9	24.4
60°-70°	5643.7	36.3
70°-80°	2338.8	15.1
80°-90°	115.8	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°	15532.9	100.0
0°-180°	15532.9	100.0

Coefficient of Utilization



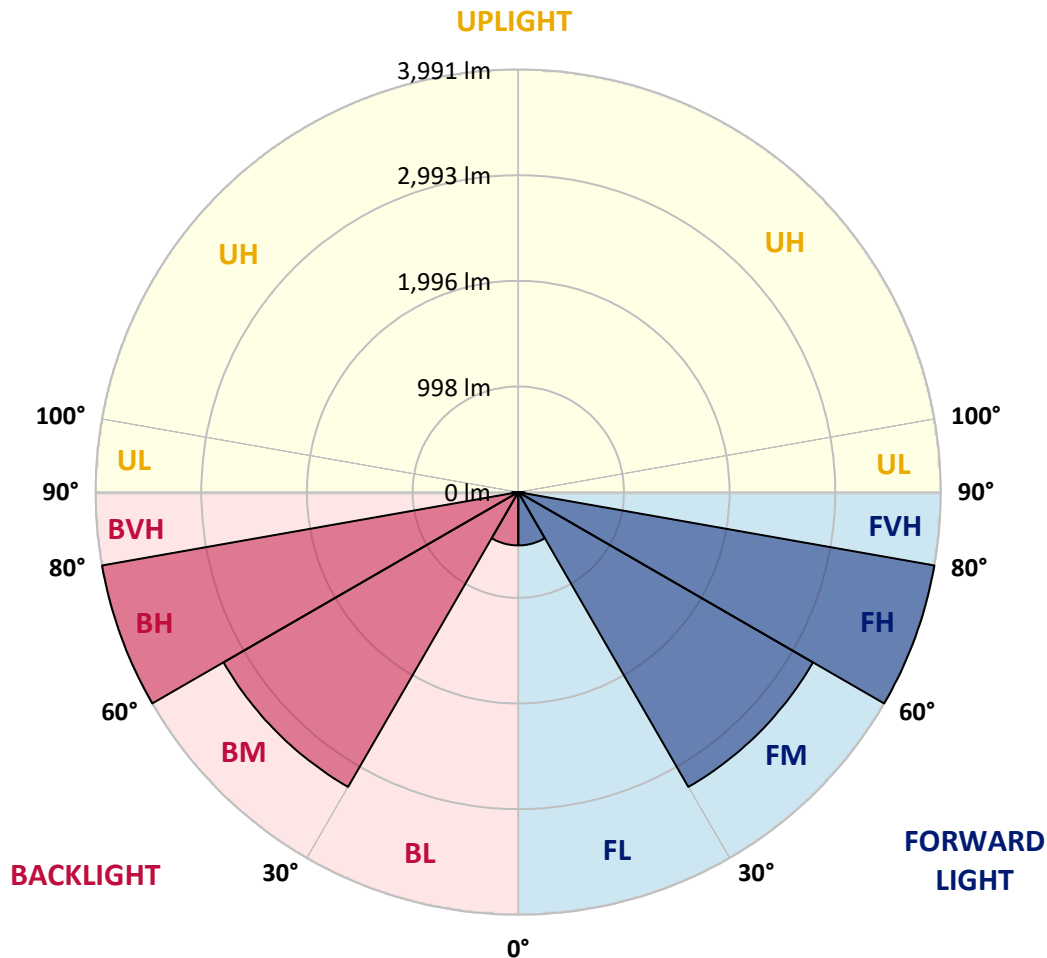
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	502.7	3.2			
FM (30°-60°)	3214.5	20.7			
FH (60°-80°)	3991.3	25.7			G2/5000
FVH (80°-90°)	57.9	0.4			G1/100
BL (0°-30°)	502.7	3.2	B2/1000		
BM (30°-60°)	3214.5	20.7	B3/5000		
BH (60°-80°)	3991.3	25.7	B4/5000		G2/5000
BVH (80°-90°)	57.9	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	1187.6	1187.6	1187.6	1187.6	1187.6	1187.6	1187.6	1187.6	1187.6	1187.6	1187.6
2.5°	1173.9	1177.3	1175.6	1175.6	1180.7	1184.2	1185.9	1203.0	1196.2	1201.3	1196.2
5°	1177.3	1177.3	1180.7	1177.3	1180.7	1177.3	1180.7	1175.6	1180.7	1184.2	1189.3
7.5°	1170.4	1167.0	1161.8	1161.8	1160.1	1156.7	1151.5	1165.3	1158.4	1163.6	1172.1
10°	1172.1	1167.0	1149.8	1153.3	1137.8	1137.8	1141.3	1141.3	1156.7	1173.9	1179.0
12.5°	1172.1	1161.8	1156.7	1134.4	1134.4	1136.1	1144.7	1148.1	1158.4	1165.3	1182.4
15°	1172.1	1167.0	1158.4	1129.2	1136.1	1132.7	1141.3	1141.3	1163.6	1175.6	1184.2
17.5°	1179.0	1182.4	1167.0	1139.5	1141.3	1148.1	1143.0	1148.1	1175.6	1184.2	1196.2
20°	1180.7	1167.0	1161.8	1144.7	1160.1	1156.7	1155.0	1165.3	1173.9	1189.3	1203.0
22.5°	1177.3	1182.4	1161.8	1160.1	1173.9	1180.7	1184.2	1172.1	1182.4	1192.7	1204.7
25°	1206.5	1187.6	1182.4	1179.0	1185.9	1192.7	1189.3	1199.6	1199.6	1211.6	1227.1
27.5°	1285.4	1287.1	1276.8	1235.6	1221.9	1206.5	1213.3	1240.8	1273.4	1299.1	1304.3
30°	1321.4	1328.3	1355.8	1348.9	1343.8	1348.9	1347.2	1354.1	1357.5	1359.2	1354.1
32.5°	1354.1	1350.6	1338.6	1369.5	1470.8	1548.0	1474.2	1372.9	1350.6	1343.8	1350.6
35°	1472.5	1472.5	1446.7	1407.3	1460.5	1479.3	1445.0	1397.0	1424.4	1481.1	1484.5
37.5°	1625.2	1602.9	1613.2	1608.0	1549.7	1508.5	1568.6	1599.5	1604.6	1602.9	1620.1
40°	1716.2	1700.7	1685.3	1712.7	1765.9	1803.7	1750.5	1676.7	1695.6	1733.3	1717.9
42.5°	1923.8	1884.4	1887.8	1860.3	1858.6	1846.6	1834.6	1839.7	1867.2	1910.1	1917.0
45°	2136.6	2155.5	2143.5	2092.0	2116.0	2116.0	2081.7	2107.5	2121.2	2171.0	2177.8
47.5°	2469.6	2461.0	2466.1	2419.8	2418.1	2430.1	2418.1	2419.8	2462.7	2459.3	2440.4
50°	2859.1	2883.2	2890.0	2867.7	2840.3	2835.1	2816.2	2840.3	2866.0	2867.7	2852.3
52.5°	3398.0	3423.8	3423.8	3430.6	3464.9	3447.8	3444.3	3446.1	3396.3	3362.0	3379.1
55°	4077.6	4086.2	4115.4	4175.4	4280.1	4293.9	4228.6	4199.5	4108.5	4053.6	4096.5
57.5°	4748.6	4783.0	4863.6	5019.8	5148.5	5289.2	5100.5	4908.2	4729.8	4642.2	4657.7
60°	5306.4	5356.2	5510.6	5728.6	6085.5	6214.2	5895.0	5565.5	5203.4	4935.7	5043.8
62.5°	5569.0	5646.2	5776.6	6217.7	6753.1	6938.5	6470.0	5871.0	5321.8	5064.4	5059.3
64°	5570.7	5582.7	5843.6	6318.9	6869.8	7228.5	6609.0	5871.0	5351.0	5033.5	5091.9
65°	5455.7	5505.5	5757.7	6226.3	6796.0	7252.5	6560.9	5790.4	5230.9	4983.8	5011.2
67.5°	4934.0	4932.3	5165.7	5630.7	6421.9	6979.7	6152.5	5339.0	4934.0	4666.3	4698.9
70°	3743.0	3803.0	4026.1	4597.6	5557.0	6154.2	5380.2	4537.5	4033.0	3818.5	3806.5
72.5°	2239.6	2318.5	2603.4	3300.2	4316.2	5042.1	4269.8	3356.8	2749.3	2409.5	2418.1
75°	1021.1	1079.5	1275.1	1843.2	2876.3	3686.3	2893.5	1941.0	1391.8	1175.6	1144.7
77.5°	286.6	322.6	430.8	846.1	1578.9	2210.4	1623.5	935.3	607.5	504.6	494.3
80°	128.7	135.6	152.7	205.9	501.1	974.8	671.0	343.2	228.3	188.8	180.2
82.5°	70.4	75.5	99.5	106.4	142.4	259.1	221.4	161.3	137.3	109.8	106.4
85°	39.5	41.2	56.6	56.6	68.6	75.5	80.7	85.8	84.1	61.8	60.1
87.5°	12.0	13.7	17.2	17.2	17.2	17.2	27.5	37.8	41.2	29.2	29.2
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)