

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: P479830

Luminaire Tested: **IFLD-S-SA2C-827-U-5WQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479830
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-827-U-5WQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5WQ distribution lens
Light Source: (32) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

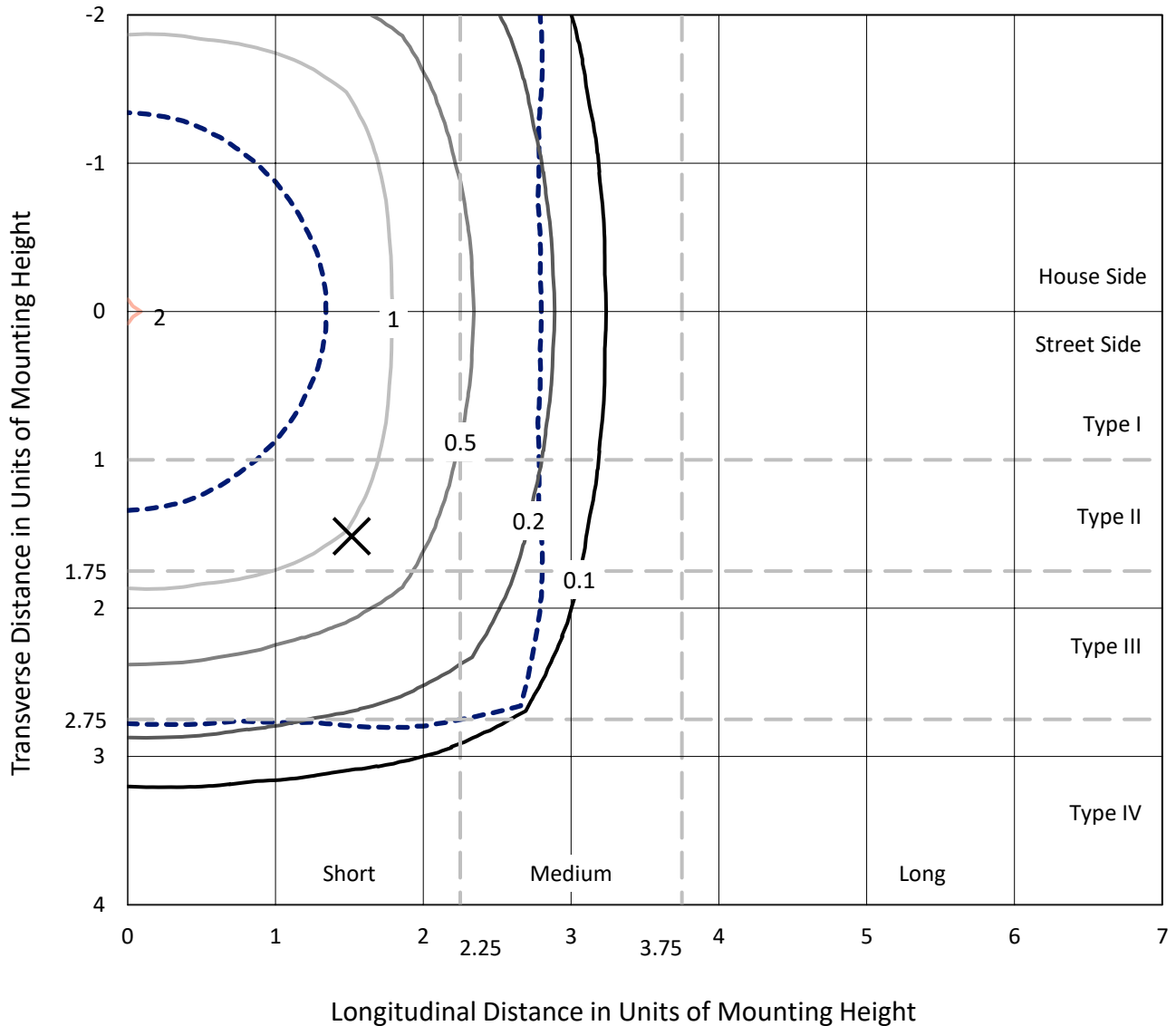
Lumens per Lamp: N/A
Luminaire Lumens: 10721.9 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 108.2
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

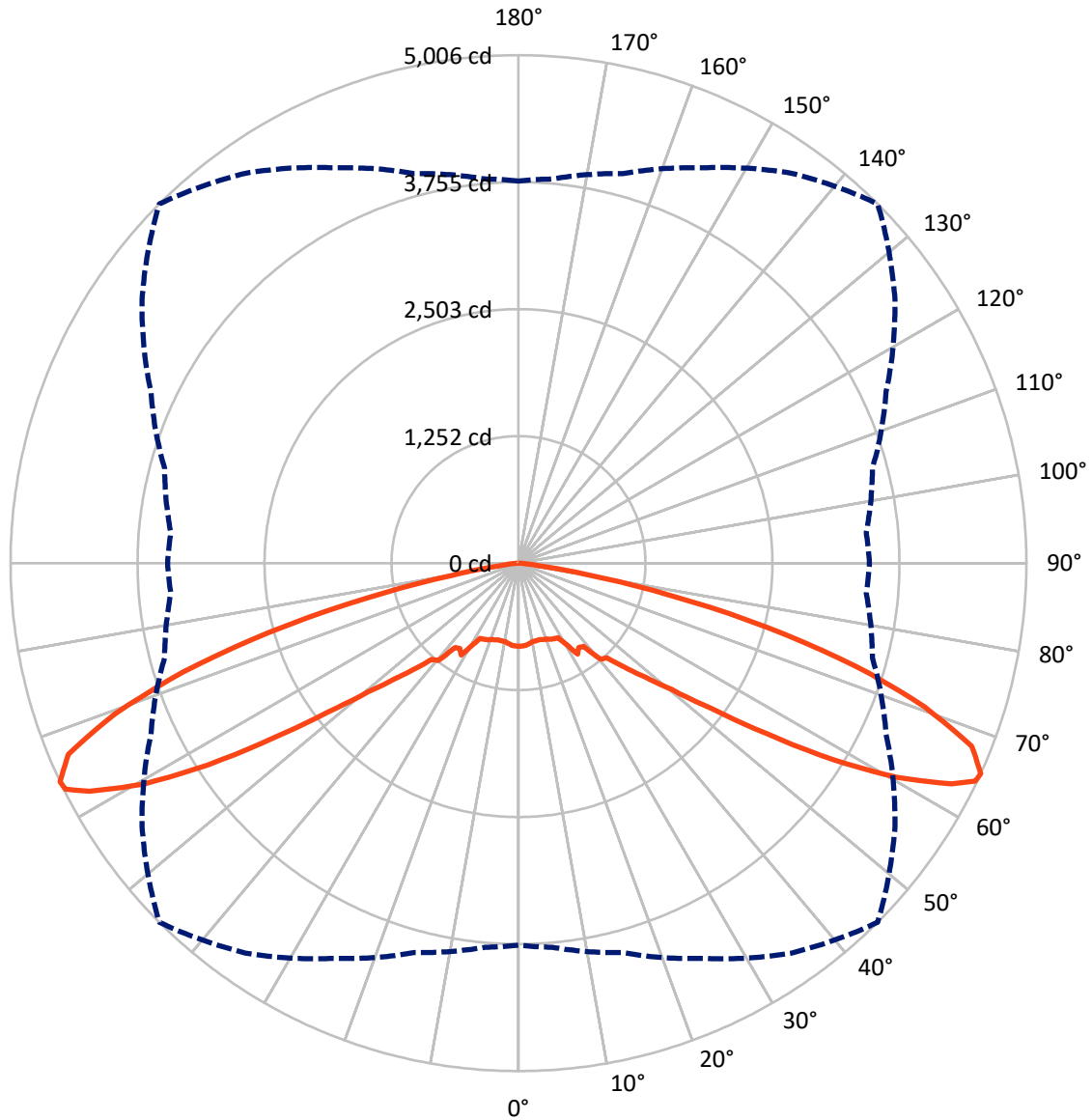
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2 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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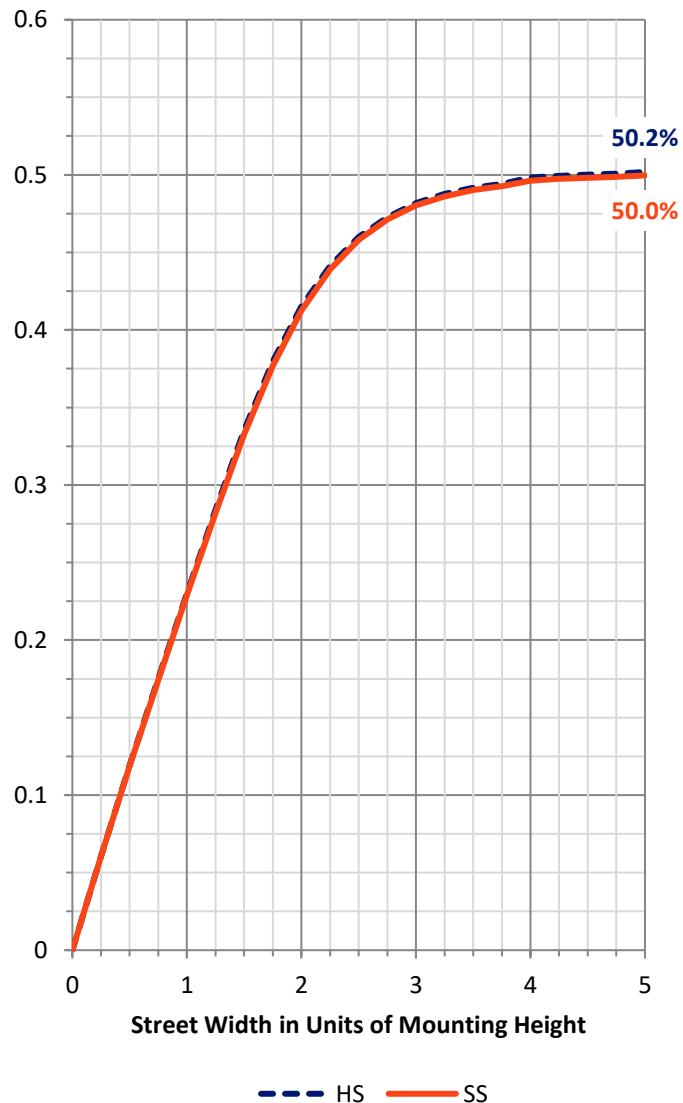
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5361.0	0.0	5361.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5361.0	0.0	5361.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	10721.9	0.0	10721.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.9	0.7
10°-20°	226.0	2.1
20°-30°	391.1	3.6
30°-40°	650.4	6.1
40°-50°	1173.4	10.9
50°-60°	2614.0	24.4
60°-70°	3895.7	36.3
70°-80°	1614.4	15.1
80°-90°	80.0	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°	10721.9	100.0
0°-180°	10721.9	100.0

Coefficient of Utilization



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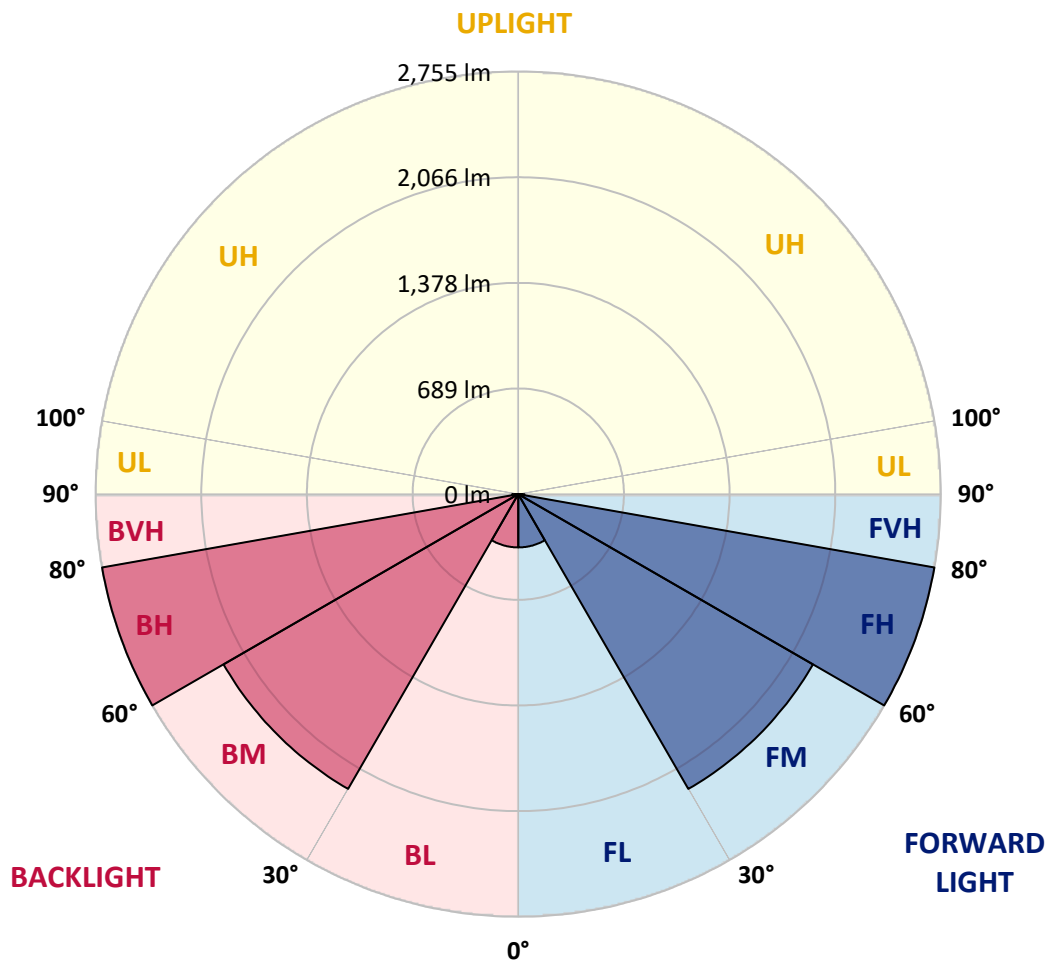
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	347.0	3.2			
FM (30°-60°)	2218.9	20.7			
FH (60°-80°)	2755.1	25.7			G2/5000
FVH (80°-90°)	40.0	0.4			G1/100
BL (0°-30°)	347.0	3.2	B1/500		
BM (30°-60°)	2218.9	20.7	B2/2500		
BH (60°-80°)	2755.1	25.7	B4/5000		G2/5000
BVH (80°-90°)	40.0	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	819.8	819.8	819.8	819.8	819.8	819.8	819.8	819.8	819.8	819.8	819.8
2.5°	810.3	812.6	811.5	811.5	815.0	817.4	818.6	830.4	825.7	829.2	825.7
5°	812.6	812.6	815.0	812.6	815.0	812.6	815.0	811.5	815.0	817.4	820.9
7.5°	807.9	805.5	802.0	802.0	800.8	798.4	794.9	804.4	799.6	803.2	809.1
10°	809.1	805.5	793.7	796.1	785.4	785.4	787.8	787.8	798.4	810.3	813.8
12.5°	809.1	802.0	798.4	783.0	783.0	784.2	790.1	792.5	799.6	804.4	816.2
15°	809.1	805.5	799.6	779.5	784.2	781.8	787.8	787.8	803.2	811.5	817.4
17.5°	813.8	816.2	805.5	786.6	787.8	792.5	789.0	792.5	811.5	817.4	825.7
20°	815.0	805.5	802.0	790.1	800.8	798.4	797.2	804.4	810.3	820.9	830.4
22.5°	812.6	816.2	802.0	800.8	810.3	815.0	817.4	809.1	816.2	823.3	831.6
25°	832.8	819.8	816.2	813.8	818.6	823.3	820.9	828.0	828.0	836.3	847.0
27.5°	887.3	888.5	881.4	852.9	843.4	832.8	837.5	856.5	879.0	896.8	900.3
30°	912.2	916.9	935.8	931.1	927.6	931.1	929.9	934.7	937.0	938.2	934.7
32.5°	934.7	932.3	924.0	945.3	1015.2	1068.5	1017.6	947.7	932.3	927.6	932.3
35°	1016.4	1016.4	998.6	971.4	1008.1	1021.1	997.4	964.3	983.2	1022.3	1024.7
37.5°	1121.8	1106.4	1113.5	1110.0	1069.7	1041.3	1082.7	1104.1	1107.6	1106.4	1118.3
40°	1184.6	1174.0	1163.3	1182.2	1219.0	1245.0	1208.3	1157.4	1170.4	1196.5	1185.8
42.5°	1328.0	1300.7	1303.1	1284.1	1282.9	1274.7	1266.4	1269.9	1288.9	1318.5	1323.2
45°	1474.9	1487.9	1479.6	1444.1	1460.6	1460.6	1436.9	1454.7	1464.2	1498.5	1503.3
47.5°	1704.7	1698.7	1702.3	1670.3	1669.1	1677.4	1669.1	1670.3	1699.9	1697.6	1684.5
50°	1973.6	1990.2	1994.9	1979.5	1960.5	1957.0	1944.0	1960.5	1978.3	1979.5	1968.8
52.5°	2345.5	2363.3	2363.3	2368.1	2391.7	2379.9	2377.5	2378.7	2344.4	2320.7	2332.5
55°	2814.7	2820.6	2840.7	2882.2	2954.4	2963.9	2918.9	2898.8	2836.0	2798.1	2827.7
57.5°	3277.8	3301.5	3357.2	3465.0	3553.9	3651.0	3520.7	3388.0	3264.8	3204.4	3215.1
60°	3662.8	3697.2	3803.8	3954.3	4200.7	4289.5	4069.2	3841.7	3591.8	3407.0	3481.6
62.5°	3844.1	3897.4	3987.4	4291.9	4661.5	4789.4	4466.0	4052.6	3673.5	3495.8	3492.3
64°	3845.3	3853.6	4033.6	4361.8	4742.0	4989.6	4562.0	4052.6	3693.6	3474.5	3514.8
65°	3765.9	3800.3	3974.4	4297.8	4691.1	5006.2	4528.8	3996.9	3610.7	3440.1	3459.1
67.5°	3405.8	3404.6	3565.7	3886.7	4432.8	4817.8	4246.9	3685.4	3405.8	3221.0	3243.5
70°	2583.7	2625.1	2779.1	3173.6	3835.8	4248.0	3713.8	3132.1	2783.9	2635.8	2627.5
72.5°	1545.9	1600.4	1797.1	2278.0	2979.3	3480.4	2947.3	2317.1	1897.8	1663.2	1669.1
75°	704.8	745.1	880.2	1272.3	1985.4	2544.6	1997.3	1339.8	960.7	811.5	790.1
77.5°	197.8	222.7	297.3	584.0	1089.8	1525.8	1120.6	645.6	419.4	348.3	341.2
80°	88.8	93.6	105.4	142.2	345.9	672.9	463.2	236.9	157.6	130.3	124.4
82.5°	48.6	52.1	68.7	73.4	98.3	178.9	152.8	111.4	94.8	75.8	73.4
85°	27.2	28.4	39.1	39.1	47.4	52.1	55.7	59.2	58.0	42.6	41.5
87.5°	8.3	9.5	11.8	11.8	11.8	11.8	19.0	26.1	28.4	20.1	20.1
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)