

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: P479870

Luminaire Tested: **IFLD-S-SA2D-830-U-5WQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479870
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-830-U-5WQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5WQ distribution lens
Light Source: (32) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

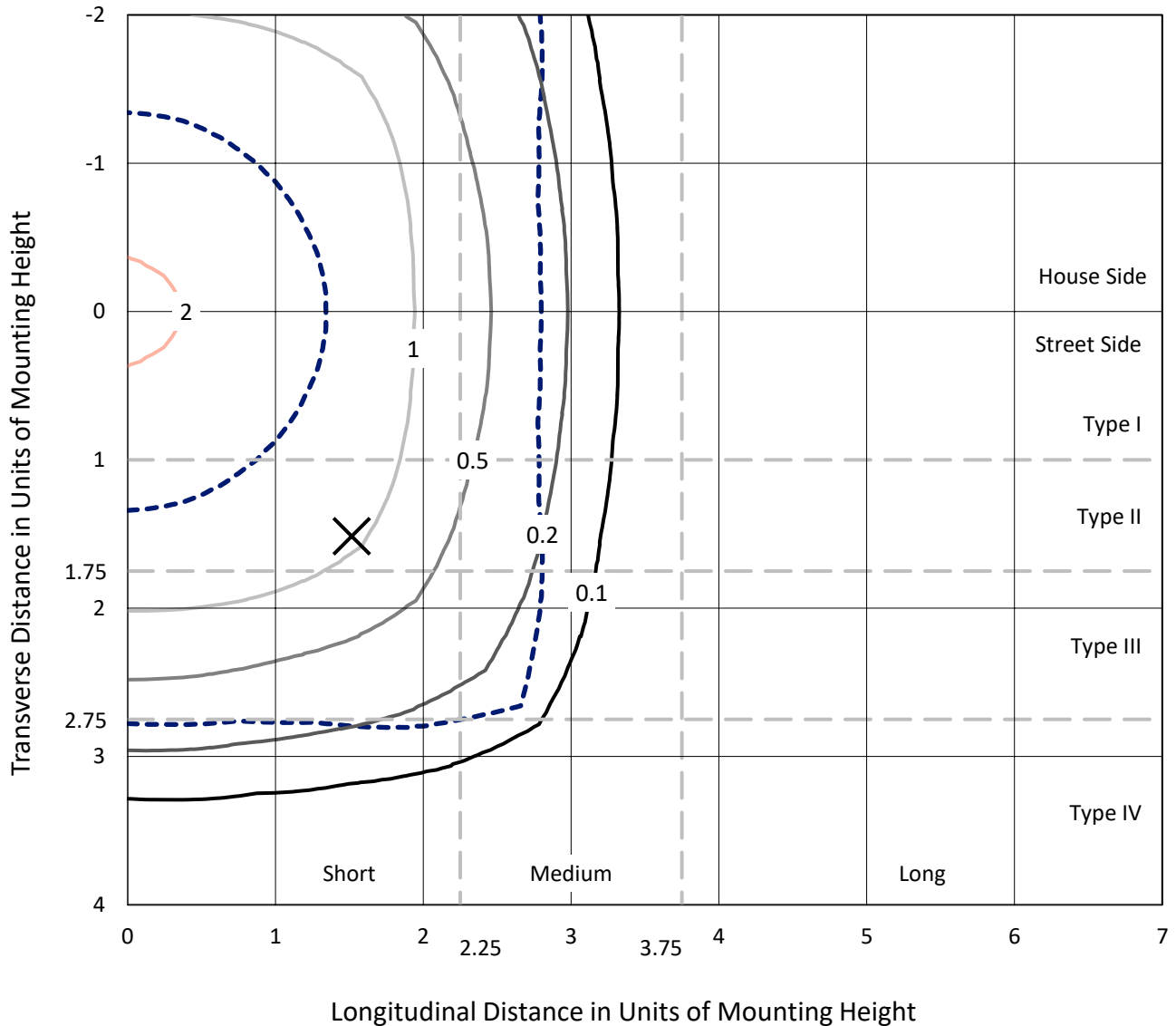
Lumens per Lamp: N/A
Luminaire Lumens: 12752.7 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 123.9
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

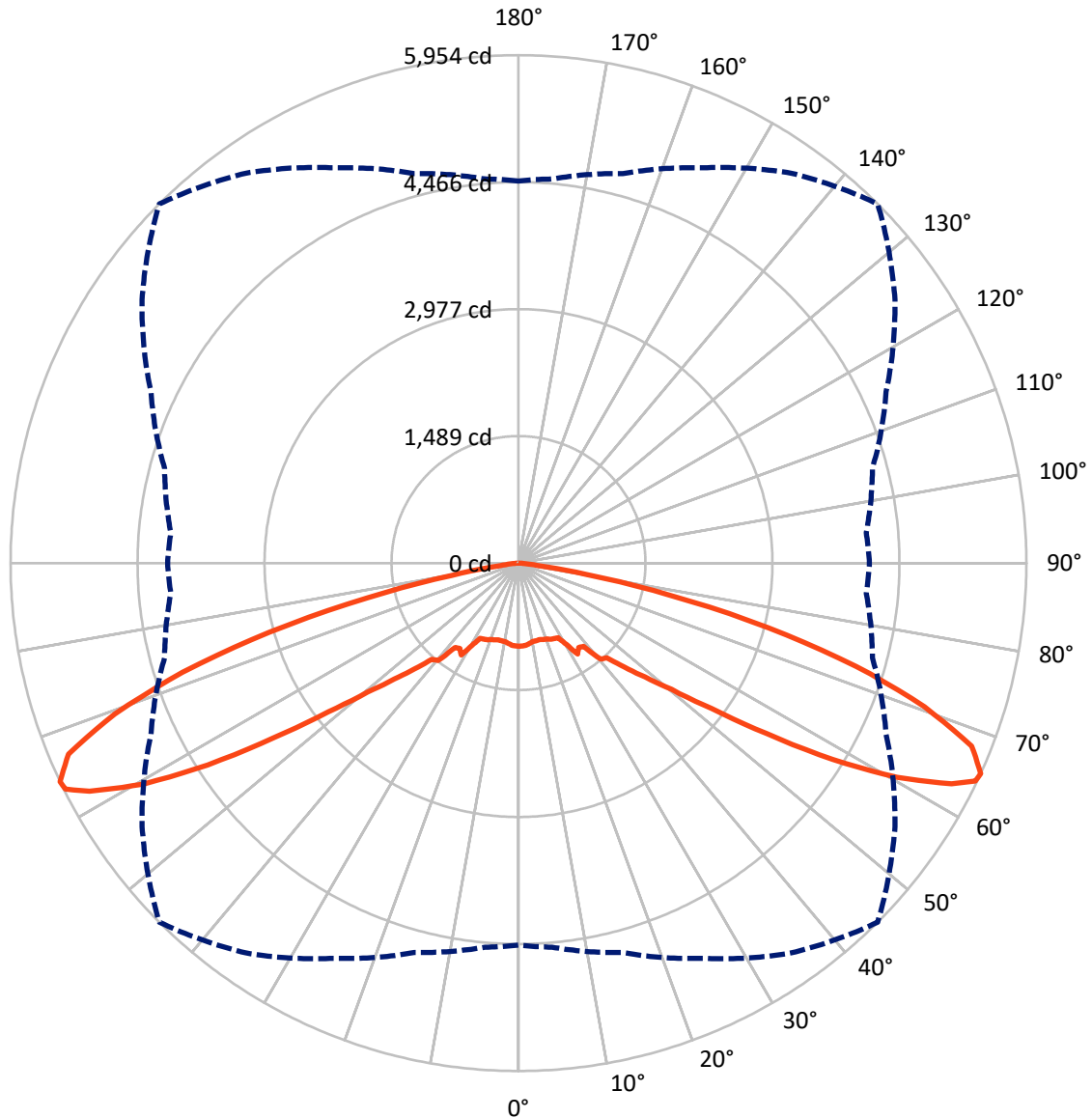
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.4 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	6376.3	0.0	6376.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6376.3	0.0	6376.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	12752.7	0.0	12752.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.5	0.7
10°-20°	268.8	2.1
20°-30°	465.2	3.6
30°-40°	773.6	6.1
40°-50°	1395.7	10.9
50°-60°	3109.1	24.4
60°-70°	4633.5	36.3
70°-80°	1920.2	15.1
80°-90°	95.1	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°	12752.7	100.0
0°-180°	12752.7	100.0

Coefficient of Utilization



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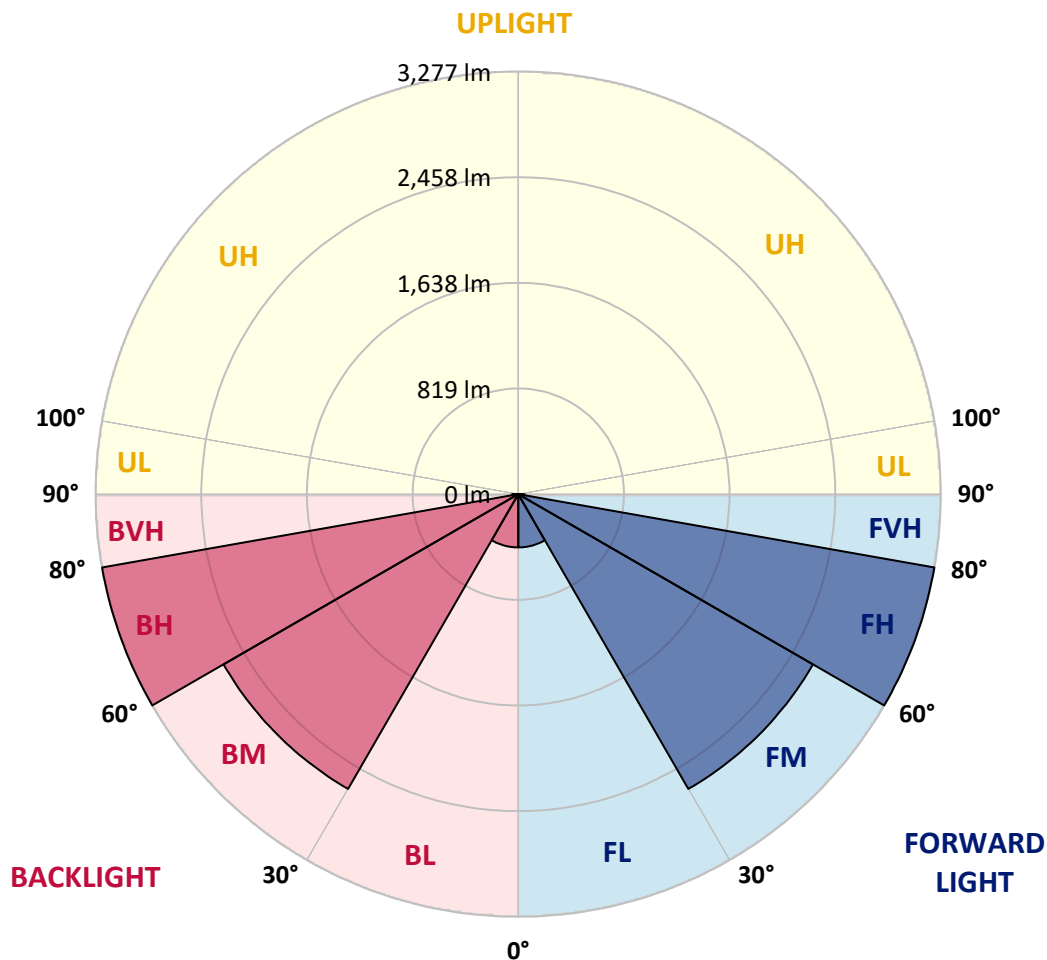
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	412.8	3.2			
FM (30°-60°)	2639.2	20.7			
FH (60°-80°)	3276.9	25.7			G2/5000
FVH (80°-90°)	47.6	0.4			G1/100
BL (0°-30°)	412.8	3.2	B1/500		
BM (30°-60°)	2639.2	20.7	B3/5000		
BH (60°-80°)	3276.9	25.7	B4/5000		G2/5000
BVH (80°-90°)	47.6	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°	975.0	975.0	975.0	975.0	975.0	975.0	975.0	975.0	975.0	975.0	975.0
2.5°	963.7	966.6	965.2	965.2	969.4	972.2	973.6	987.7	982.1	986.3	982.1
5°	966.6	966.6	969.4	966.6	969.4	966.6	969.4	965.2	969.4	972.2	976.4
7.5°	960.9	958.1	953.9	953.9	952.5	949.7	945.4	956.7	951.1	955.3	962.3
10°	962.3	958.1	944.0	946.8	934.2	934.2	937.0	937.0	949.7	963.7	968.0
12.5°	962.3	953.9	949.7	931.3	931.3	932.7	939.8	942.6	951.1	956.7	970.8
15°	962.3	958.1	951.1	927.1	932.7	929.9	937.0	937.0	955.3	965.2	972.2
17.5°	968.0	970.8	958.1	935.6	937.0	942.6	938.4	942.6	965.2	972.2	982.1
20°	969.4	958.1	953.9	939.8	952.5	949.7	948.2	956.7	963.7	976.4	987.7
22.5°	966.6	970.8	953.9	952.5	963.7	969.4	972.2	962.3	970.8	979.2	989.1
25°	990.5	975.0	970.8	968.0	973.6	979.2	976.4	984.9	984.9	994.7	1007.4
27.5°	1055.3	1056.7	1048.3	1014.5	1003.2	990.5	996.2	1018.7	1045.5	1066.6	1070.8
30°	1084.9	1090.6	1113.1	1107.5	1103.2	1107.5	1106.1	1111.7	1114.5	1115.9	1111.7
32.5°	1111.7	1108.9	1099.0	1124.4	1207.5	1270.9	1210.3	1127.2	1108.9	1103.2	1108.9
35°	1208.9	1208.9	1187.8	1155.4	1199.0	1214.5	1186.4	1146.9	1169.5	1216.0	1218.8
37.5°	1334.3	1316.0	1324.4	1320.2	1272.3	1238.5	1287.8	1313.2	1317.4	1316.0	1330.1
40°	1409.0	1396.3	1383.6	1406.2	1449.8	1480.8	1437.2	1376.6	1392.1	1423.1	1410.4
42.5°	1579.5	1547.1	1549.9	1527.3	1525.9	1516.1	1506.2	1510.4	1533.0	1568.2	1573.8
45°	1754.2	1769.7	1759.8	1717.6	1737.3	1737.3	1709.1	1730.2	1741.5	1782.4	1788.0
47.5°	2027.5	2020.5	2024.7	1986.7	1985.3	1995.1	1985.3	1986.7	2021.9	2019.1	2003.6
50°	2347.4	2367.1	2372.7	2354.4	2331.9	2327.6	2312.1	2331.9	2353.0	2354.4	2341.7
52.5°	2789.8	2810.9	2810.9	2816.6	2844.7	2830.7	2827.8	2829.2	2788.4	2760.2	2774.3
55°	3347.7	3354.8	3378.7	3428.1	3514.0	3525.3	3471.7	3447.8	3373.1	3328.0	3363.2
57.5°	3898.7	3926.8	3993.1	4121.3	4227.0	4342.5	4187.5	4029.7	3883.2	3811.3	3824.0
60°	4356.6	4397.4	4524.3	4703.2	4996.3	5101.9	4839.9	4569.3	4272.0	4052.2	4141.0
62.5°	4572.2	4635.6	4742.6	5104.8	5544.4	5696.5	5311.9	4820.1	4369.3	4157.9	4153.7
64°	4573.6	4583.4	4797.6	5187.9	5640.2	5934.6	5426.0	4820.1	4393.2	4132.6	4180.5
65°	4479.2	4520.0	4727.1	5111.8	5579.6	5954.4	5386.5	4753.9	4294.6	4091.7	4114.2
67.5°	4050.8	4049.4	4241.0	4622.9	5272.4	5730.3	5051.2	4383.4	4050.8	3831.0	3857.8
70°	3073.0	3122.3	3305.5	3774.7	4562.3	5052.6	4417.2	3725.4	3311.1	3135.0	3125.1
72.5°	1838.7	1903.5	2137.4	2709.5	3543.6	4139.6	3505.6	2756.0	2257.2	1978.2	1985.3
75°	838.3	886.3	1046.9	1513.2	2361.5	3026.5	2375.5	1593.6	1142.7	965.2	939.8
77.5°	235.3	264.9	353.7	694.6	1296.3	1814.8	1332.9	767.9	498.8	414.2	405.8
80°	105.7	111.3	125.4	169.1	411.4	800.3	550.9	281.8	187.4	155.0	147.9
82.5°	57.8	62.0	81.7	87.4	116.9	212.8	181.8	132.4	112.7	90.2	87.4
85°	32.4	33.8	46.5	46.5	56.4	62.0	66.2	70.4	69.0	50.7	49.3
87.5°	9.9	11.3	14.1	14.1	14.1	14.1	22.5	31.0	33.8	24.0	24.0
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)