

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: P479597

Luminaire Tested: **IFLD-S-SA2D-727-U-5WQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479597  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-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**

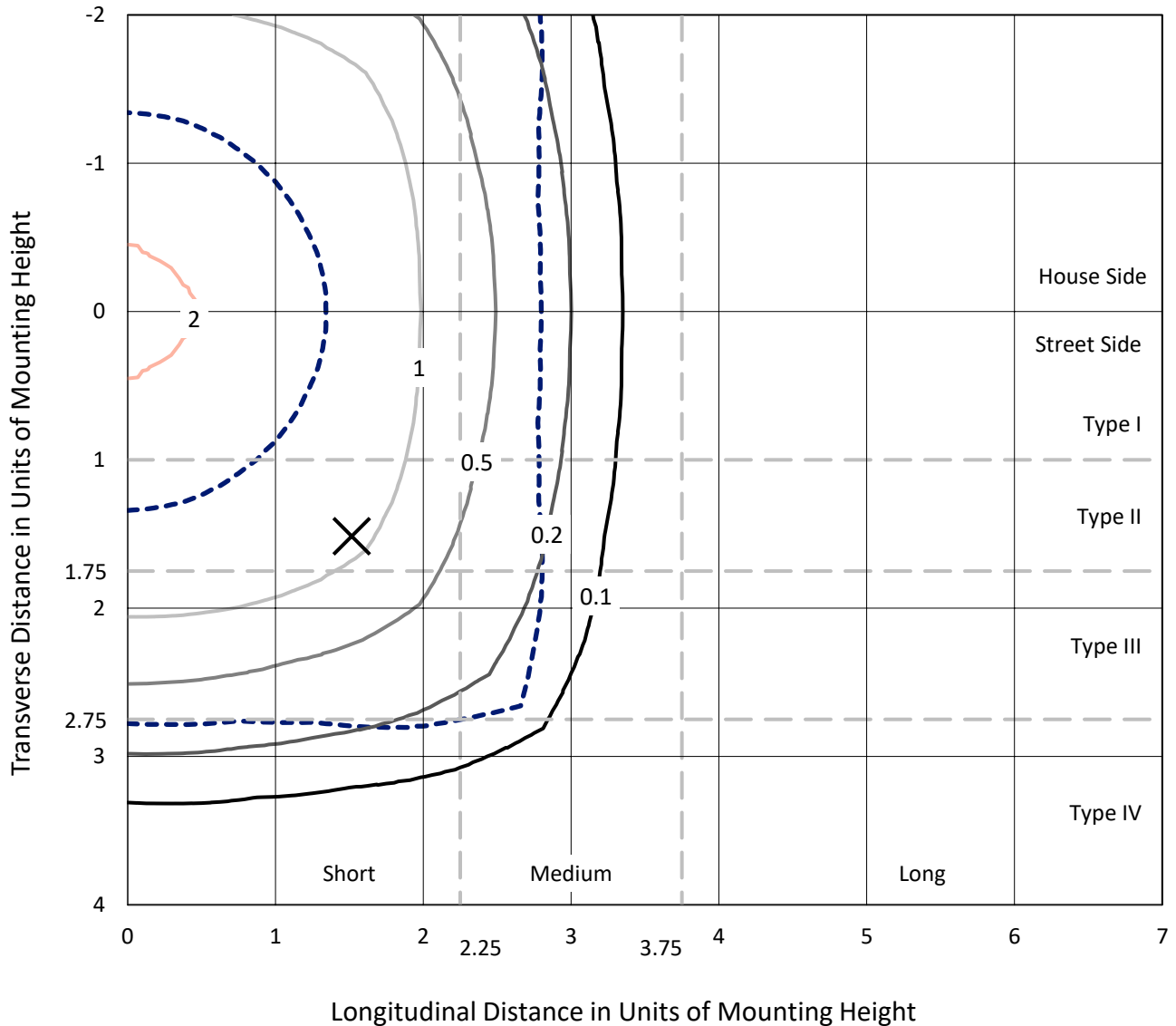
Lumens per Lamp: N/A  
Luminaire Lumens: 13421.9 lumens  
Efficiency: N/A  
Efficacy: 108.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

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

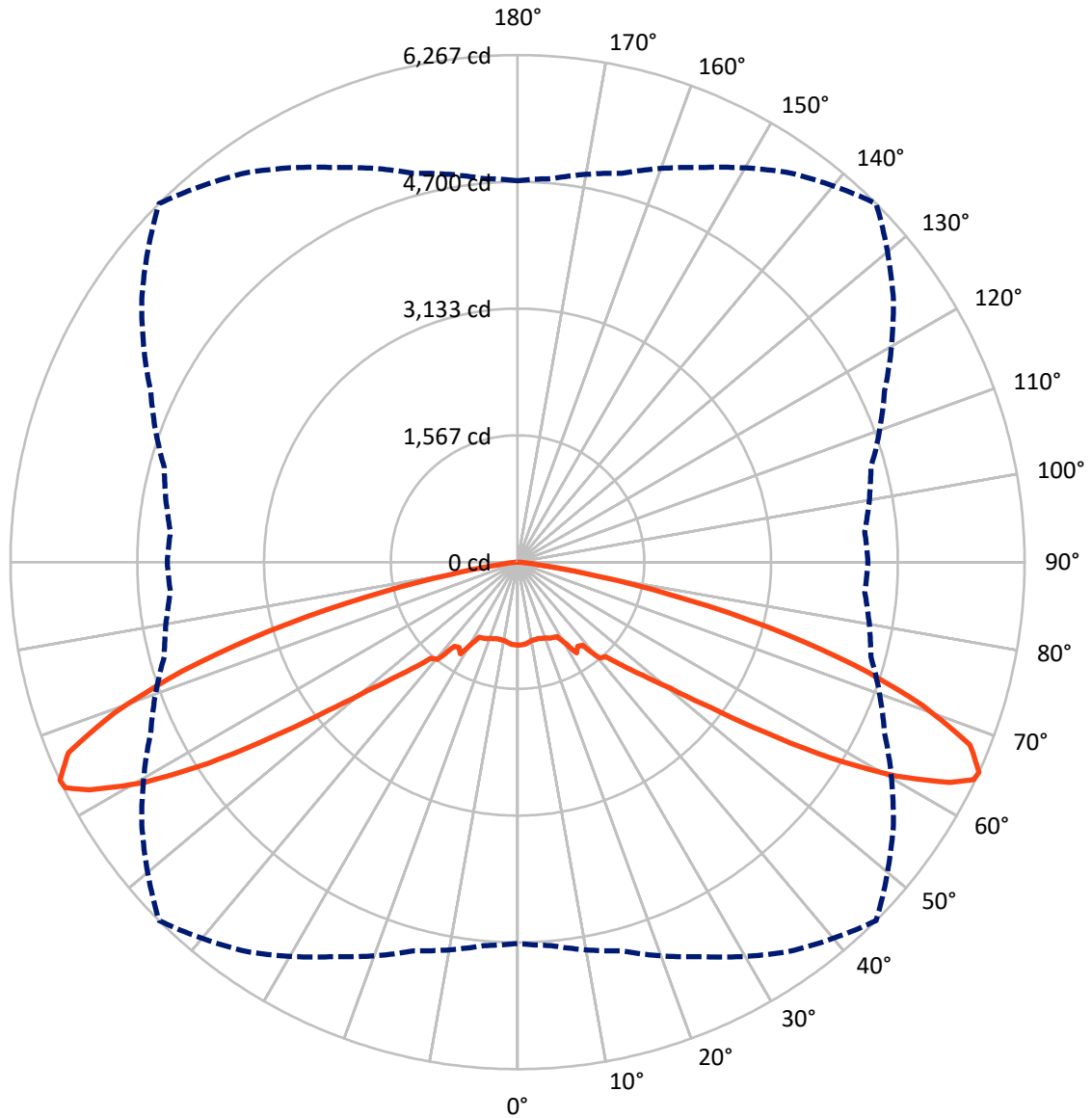
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.6 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
<b>House Side</b>	Lumens	6710.9	0.0	6710.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6710.9	0.0	6710.9
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	13421.9	0.0	13421.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.3	0.7
10°-20°	282.9	2.1
20°-30°	489.6	3.6
30°-40°	814.2	6.1
40°-50°	1468.9	10.9
50°-60°	3272.2	24.4
60°-70°	4876.7	36.3
70°-80°	2021.0	15.1
80°-90°	100.1	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°	13421.9	100.0
0°-180°	13421.9	100.0

**Coefficient of Utilization**



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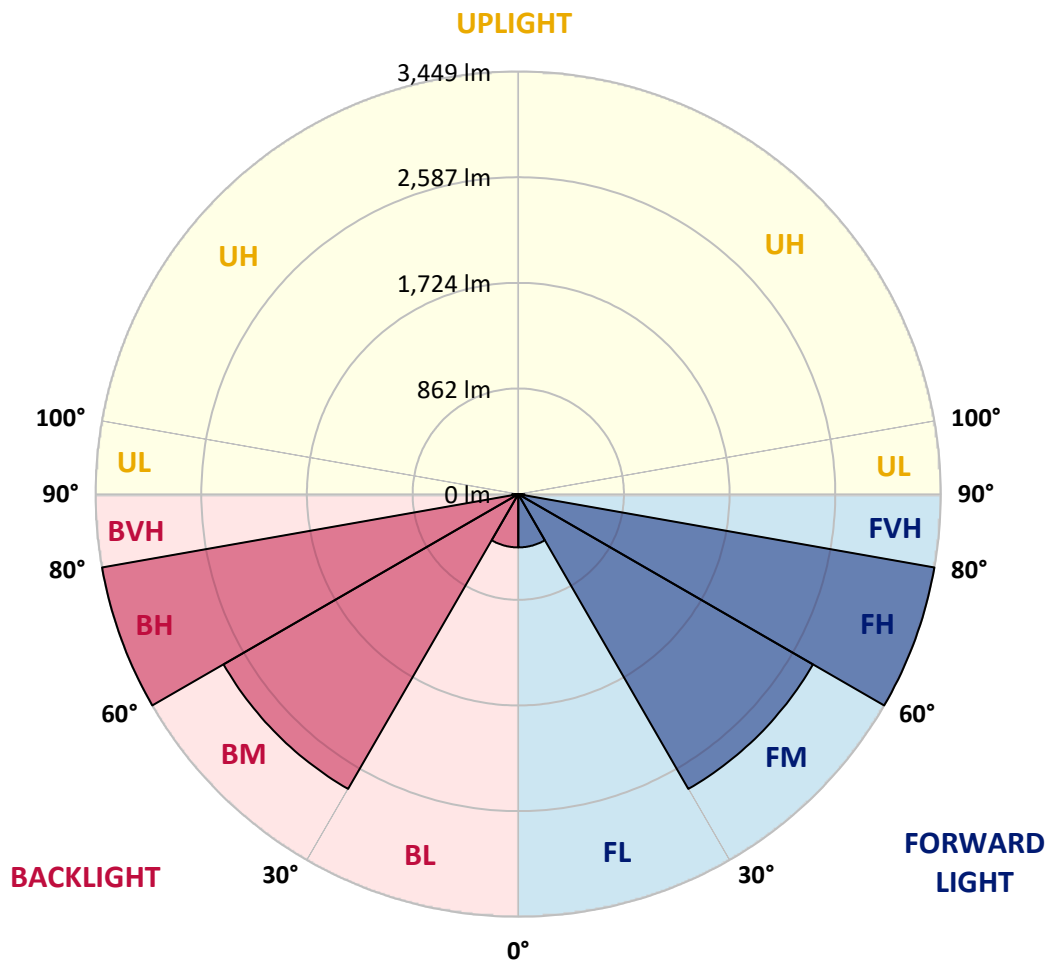
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	434.4	3.2			
FM (30°-60°)	2777.7	20.7			
FH (60°-80°)	3448.8	25.7			G2/5000
FVH (80°-90°)	50.0	0.4			G1/100
BL (0°-30°)	434.4	3.2	B1/500		
BM (30°-60°)	2777.7	20.7	B3/5000		
BH (60°-80°)	3448.8	25.7	B4/5000		G2/5000
BVH (80°-90°)	50.0	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°	1026.2	1026.2	1026.2	1026.2	1026.2	1026.2	1026.2	1026.2	1026.2	1026.2	1026.2
2.5°	1014.3	1017.3	1015.8	1015.8	1020.3	1023.2	1024.7	1039.5	1033.6	1038.0	1033.6
5°	1017.3	1017.3	1020.3	1017.3	1020.3	1017.3	1020.3	1015.8	1020.3	1023.2	1027.7
7.5°	1011.4	1008.4	1003.9	1003.9	1002.5	999.5	995.0	1006.9	1001.0	1005.4	1012.8
10°	1012.8	1008.4	993.6	996.5	983.2	983.2	986.1	986.1	999.5	1014.3	1018.8
12.5°	1012.8	1003.9	999.5	980.2	980.2	981.7	989.1	992.1	1001.0	1006.9	1021.7
15°	1012.8	1008.4	1001.0	975.8	981.7	978.7	986.1	986.1	1005.4	1015.8	1023.2
17.5°	1018.8	1021.7	1008.4	984.7	986.1	992.1	987.6	992.1	1015.8	1023.2	1033.6
20°	1020.3	1008.4	1003.9	989.1	1002.5	999.5	998.0	1006.9	1014.3	1027.7	1039.5
22.5°	1017.3	1021.7	1003.9	1002.5	1014.3	1020.3	1023.2	1012.8	1021.7	1030.6	1041.0
25°	1042.5	1026.2	1021.7	1018.8	1024.7	1030.6	1027.7	1036.6	1036.6	1046.9	1060.3
27.5°	1110.7	1112.2	1103.3	1067.7	1055.8	1042.5	1048.4	1072.2	1100.3	1122.6	1127.0
30°	1141.9	1147.8	1171.5	1165.6	1161.1	1165.6	1164.1	1170.0	1173.0	1174.5	1170.0
32.5°	1170.0	1167.1	1156.7	1183.4	1270.9	1337.6	1273.8	1186.3	1167.1	1161.1	1167.1
35°	1272.4	1272.4	1250.1	1216.0	1262.0	1278.3	1248.6	1207.1	1230.8	1279.8	1282.7
37.5°	1404.3	1385.1	1394.0	1389.5	1339.1	1303.5	1355.4	1382.1	1386.5	1385.1	1399.9
40°	1482.9	1469.6	1456.2	1480.0	1525.9	1558.6	1512.6	1448.8	1465.1	1497.8	1484.4
42.5°	1662.4	1628.3	1631.2	1607.5	1606.0	1595.6	1585.2	1589.7	1613.4	1650.5	1656.4
45°	1846.2	1862.6	1852.2	1807.7	1828.4	1828.4	1798.8	1821.0	1832.9	1875.9	1881.8
47.5°	2133.9	2126.5	2131.0	2090.9	2089.4	2099.8	2089.4	2090.9	2128.0	2125.0	2108.7
50°	2470.6	2491.3	2497.2	2478.0	2454.2	2449.8	2433.5	2454.2	2476.5	2478.0	2464.6
52.5°	2936.2	2958.4	2958.4	2964.4	2994.0	2979.2	2976.2	2977.7	2934.7	2905.1	2919.9
55°	3523.4	3530.9	3556.1	3608.0	3698.4	3710.3	3653.9	3628.7	3550.1	3502.7	3539.7
57.5°	4103.3	4132.9	4202.6	4337.6	4448.8	4570.4	4407.3	4241.2	4086.9	4011.3	4024.7
60°	4585.2	4628.2	4761.7	4950.0	5258.5	5369.7	5093.9	4809.1	4496.2	4264.9	4358.3
62.5°	4812.1	4878.8	4991.5	5372.6	5835.3	5995.5	5590.6	5073.1	4598.6	4376.1	4371.7
64°	4813.6	4824.0	5049.4	5460.1	5936.2	6246.1	5710.8	5073.1	4623.8	4349.4	4399.8
65°	4714.2	4757.2	4975.2	5380.1	5872.4	6266.9	5669.2	5003.4	4520.0	4306.4	4330.1
67.5°	4263.4	4261.9	4463.6	4865.5	5549.1	6031.1	5316.3	4613.4	4263.4	4032.1	4060.3
70°	3234.3	3286.2	3478.9	3972.8	4801.7	5317.8	4649.0	3920.9	3484.9	3299.5	3289.1
72.5°	1935.2	2003.4	2249.6	2851.7	3729.6	4356.8	3689.5	2900.6	2375.6	2082.0	2089.4
75°	882.3	932.8	1101.8	1592.7	2485.4	3185.3	2500.2	1677.2	1202.7	1015.8	989.1
77.5°	247.6	278.8	372.2	731.1	1364.3	1910.0	1402.8	808.2	525.0	436.0	427.1
80°	111.2	117.2	132.0	178.0	433.0	842.3	579.8	296.6	197.2	163.1	155.7
82.5°	60.8	65.2	86.0	91.9	123.1	223.9	191.3	139.4	118.6	94.9	91.9
85°	34.1	35.6	48.9	48.9	59.3	65.2	69.7	74.1	72.7	53.4	51.9
87.5°	10.4	11.9	14.8	14.8	14.8	14.8	23.7	32.6	35.6	25.2	25.2
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)