

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: P479832

Luminaire Tested: **IFLD-S-SA2E-827-U-5WQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479832  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2E-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**

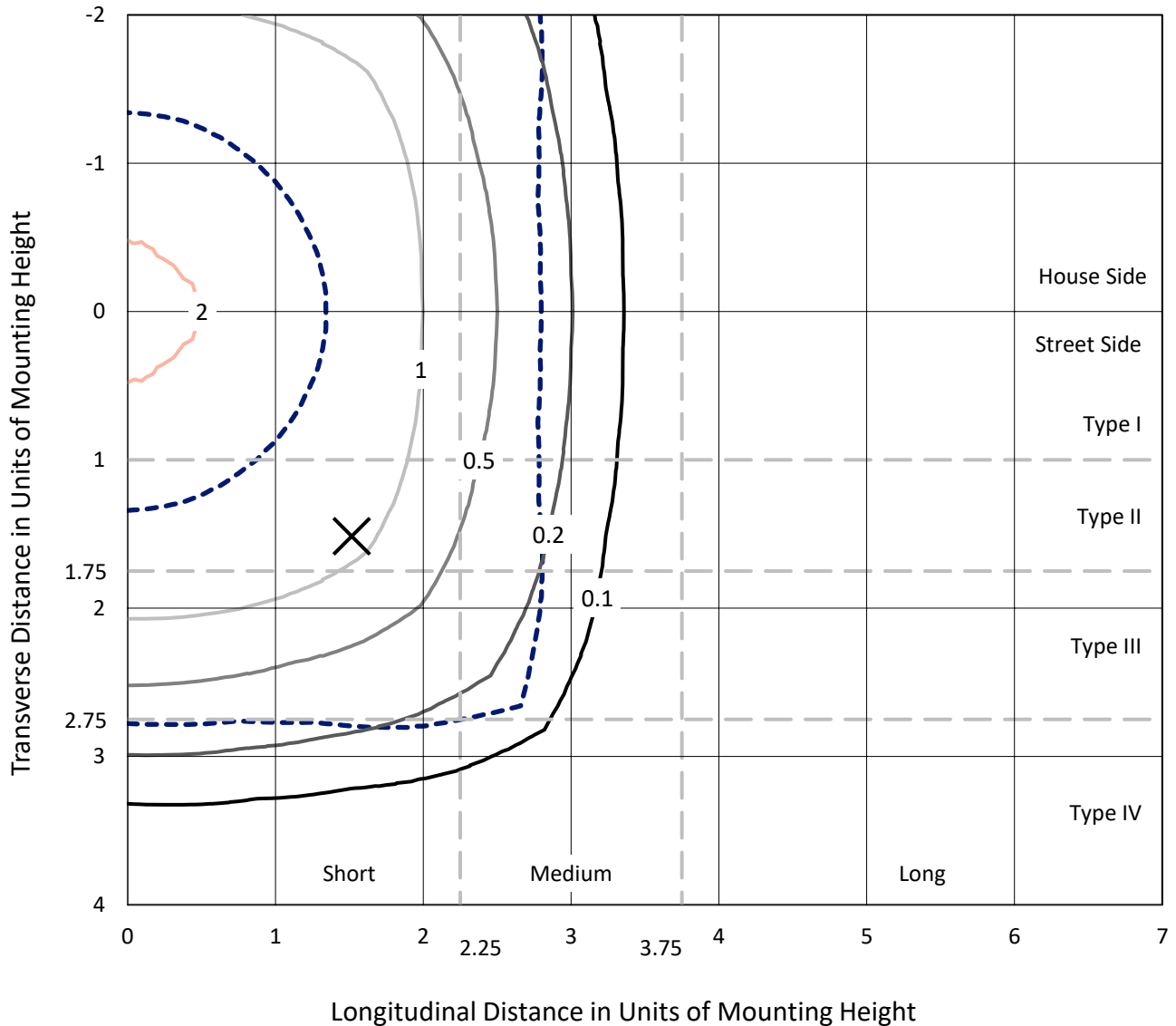
Lumens per Lamp: N/A  
Luminaire Lumens: 13653.3 lumens  
Efficiency: N/A  
Efficacy: 87.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

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

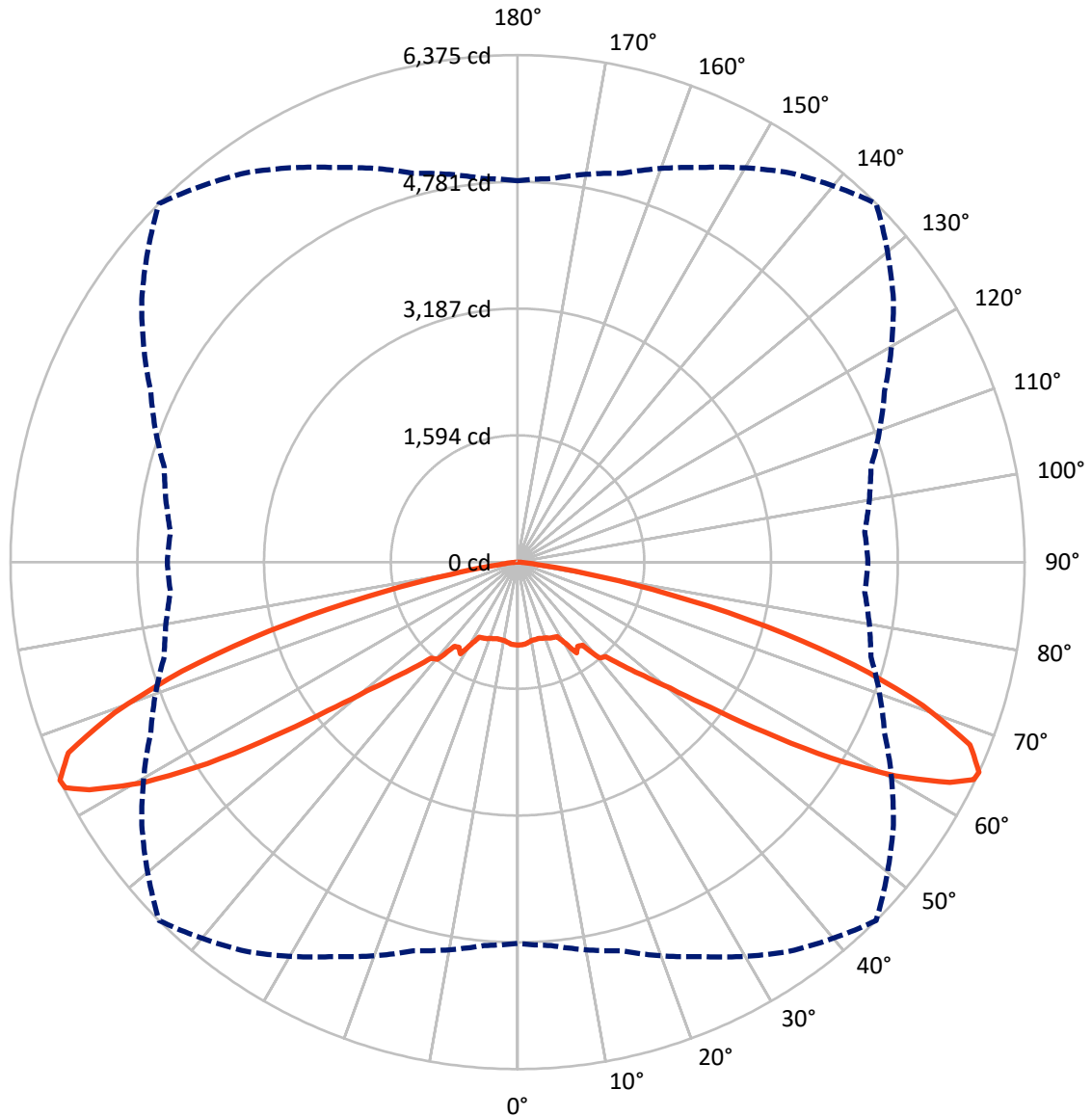
× Max cd  
 - - - 1/2 Max cd



Based on 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	6826.7	0.0	6826.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6826.7	0.0	6826.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	13653.3	0.0	13653.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.0	0.7
10°-20°	287.8	2.1
20°-30°	498.1	3.6
30°-40°	828.2	6.1
40°-50°	1494.2	10.9
50°-60°	3328.7	24.4
60°-70°	4960.8	36.3
70°-80°	2055.8	15.1
80°-90°	101.8	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°	13653.3	100.0
0°-180°	13653.3	100.0

**Coefficient of Utilization**



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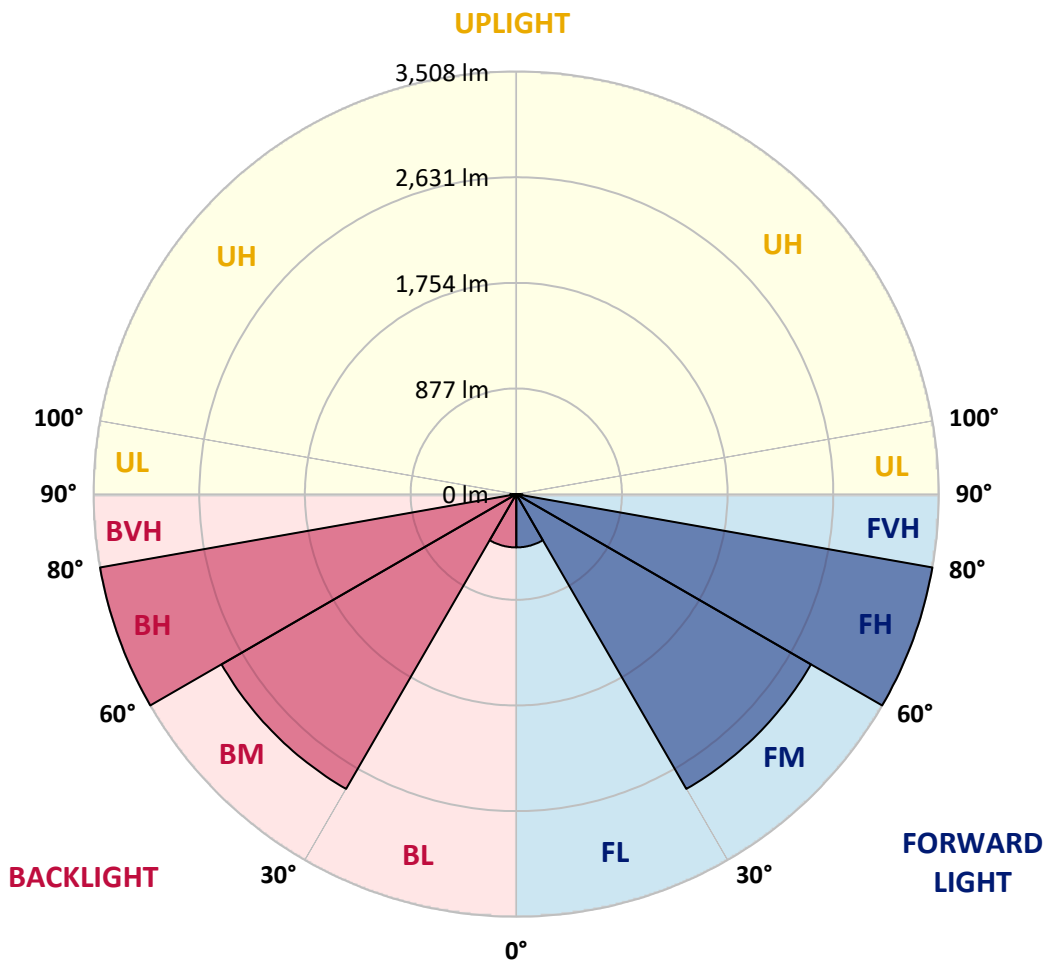
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	441.9	3.2			
FM (30°-60°)	2825.6	20.7			
FH (60°-80°)	3508.3	25.7			G2/5000
FVH (80°-90°)	50.9	0.4			G1/100
BL (0°-30°)	441.9	3.2	B1/500		
BM (30°-60°)	2825.6	20.7	B3/5000		
BH (60°-80°)	3508.3	25.7	B4/5000		G2/5000
BVH (80°-90°)	50.9	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°	1043.9	1043.9	1043.9	1043.9	1043.9	1043.9	1043.9	1043.9	1043.9	1043.9	1043.9
2.5°	1031.8	1034.8	1033.3	1033.3	1037.8	1040.9	1042.4	1057.5	1051.4	1055.9	1051.4
5°	1034.8	1034.8	1037.8	1034.8	1037.8	1034.8	1037.8	1033.3	1037.8	1040.9	1045.4
7.5°	1028.8	1025.8	1021.3	1021.3	1019.7	1016.7	1012.2	1024.3	1018.2	1022.8	1030.3
10°	1030.3	1025.8	1010.7	1013.7	1000.1	1000.1	1003.1	1003.1	1016.7	1031.8	1036.3
12.5°	1030.3	1021.3	1016.7	997.1	997.1	998.6	1006.2	1009.2	1018.2	1024.3	1039.4
15°	1030.3	1025.8	1018.2	992.6	998.6	995.6	1003.1	1003.1	1022.8	1033.3	1040.9
17.5°	1036.3	1039.4	1025.8	1001.6	1003.1	1009.2	1004.7	1009.2	1033.3	1040.9	1051.4
20°	1037.8	1025.8	1021.3	1006.2	1019.7	1016.7	1015.2	1024.3	1031.8	1045.4	1057.5
22.5°	1034.8	1039.4	1021.3	1019.7	1031.8	1037.8	1040.9	1030.3	1039.4	1048.4	1059.0
25°	1060.5	1043.9	1039.4	1036.3	1042.4	1048.4	1045.4	1054.4	1054.4	1065.0	1078.6
27.5°	1129.9	1131.4	1122.3	1086.1	1074.0	1060.5	1066.5	1090.6	1119.3	1141.9	1146.5
30°	1161.5	1167.6	1191.7	1185.7	1181.2	1185.7	1184.2	1190.2	1193.2	1194.7	1190.2
32.5°	1190.2	1187.2	1176.6	1203.8	1292.8	1360.7	1295.8	1206.8	1187.2	1181.2	1187.2
35°	1294.3	1294.3	1271.7	1237.0	1283.7	1300.3	1270.2	1227.9	1252.1	1301.8	1304.8
37.5°	1428.5	1408.9	1418.0	1413.5	1362.2	1326.0	1378.8	1405.9	1410.4	1408.9	1424.0
40°	1508.5	1494.9	1481.3	1505.5	1552.2	1585.4	1538.7	1473.8	1490.4	1523.6	1510.0
42.5°	1691.0	1656.3	1659.3	1635.2	1633.7	1623.1	1612.6	1617.1	1641.2	1679.0	1685.0
45°	1878.1	1894.7	1884.1	1838.9	1860.0	1860.0	1829.8	1852.4	1864.5	1908.2	1914.3
47.5°	2170.7	2163.2	2167.7	2127.0	2125.5	2136.0	2125.5	2127.0	2164.7	2161.7	2145.1
50°	2513.2	2534.3	2540.3	2520.7	2496.6	2492.0	2475.4	2496.6	2519.2	2520.7	2507.1
52.5°	2986.8	3009.4	3009.4	3015.5	3045.7	3030.6	3027.6	3029.1	2985.3	2955.1	2970.2
55°	3584.2	3591.7	3617.4	3670.2	3762.2	3774.3	3716.9	3691.3	3611.3	3563.1	3600.8
57.5°	4174.0	4204.2	4275.1	4412.4	4525.5	4649.2	4483.2	4314.3	4157.4	4080.5	4094.1
60°	4664.3	4708.0	4843.8	5035.4	5349.1	5462.3	5181.7	4892.1	4573.8	4338.4	4433.5
62.5°	4895.1	4963.0	5077.6	5465.3	5935.9	6098.8	5687.0	5160.6	4677.8	4451.6	4447.0
64°	4896.6	4907.1	5136.4	5554.3	6038.5	6353.8	5809.2	5160.6	4703.5	4424.4	4475.7
65°	4795.5	4839.3	5061.0	5472.8	5973.6	6374.9	5767.0	5089.7	4597.9	4380.7	4404.8
67.5°	4336.9	4335.4	4540.6	4949.4	5644.8	6135.1	5408.0	4692.9	4336.9	4101.6	4130.3
70°	3290.0	3342.8	3538.9	4041.3	4884.5	5409.5	4729.1	3988.5	3545.0	3356.4	3345.8
72.5°	1968.6	2038.0	2288.4	2900.8	3793.9	4432.0	3753.1	2950.6	2416.6	2117.9	2125.5
75°	897.6	948.8	1120.8	1620.1	2528.2	3240.2	2543.3	1706.1	1223.4	1033.3	1006.2
77.5°	251.9	283.6	378.6	743.7	1387.8	1942.9	1427.0	822.1	534.0	443.5	434.4
80°	113.1	119.2	134.3	181.0	440.5	856.8	589.8	301.7	200.6	165.9	158.4
82.5°	61.8	66.4	87.5	93.5	125.2	227.8	194.6	141.8	120.7	96.5	93.5
85°	34.7	36.2	49.8	49.8	60.3	66.4	70.9	75.4	73.9	54.3	52.8
87.5°	10.6	12.1	15.1	15.1	15.1	15.1	24.1	33.2	36.2	25.6	25.6
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)