

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: P479835

Luminaire Tested: **IFLD-S-SA3C-827-U-5WQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479835  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3C-827-U-5WQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5WQ distribution lens  
Light Source: (48) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

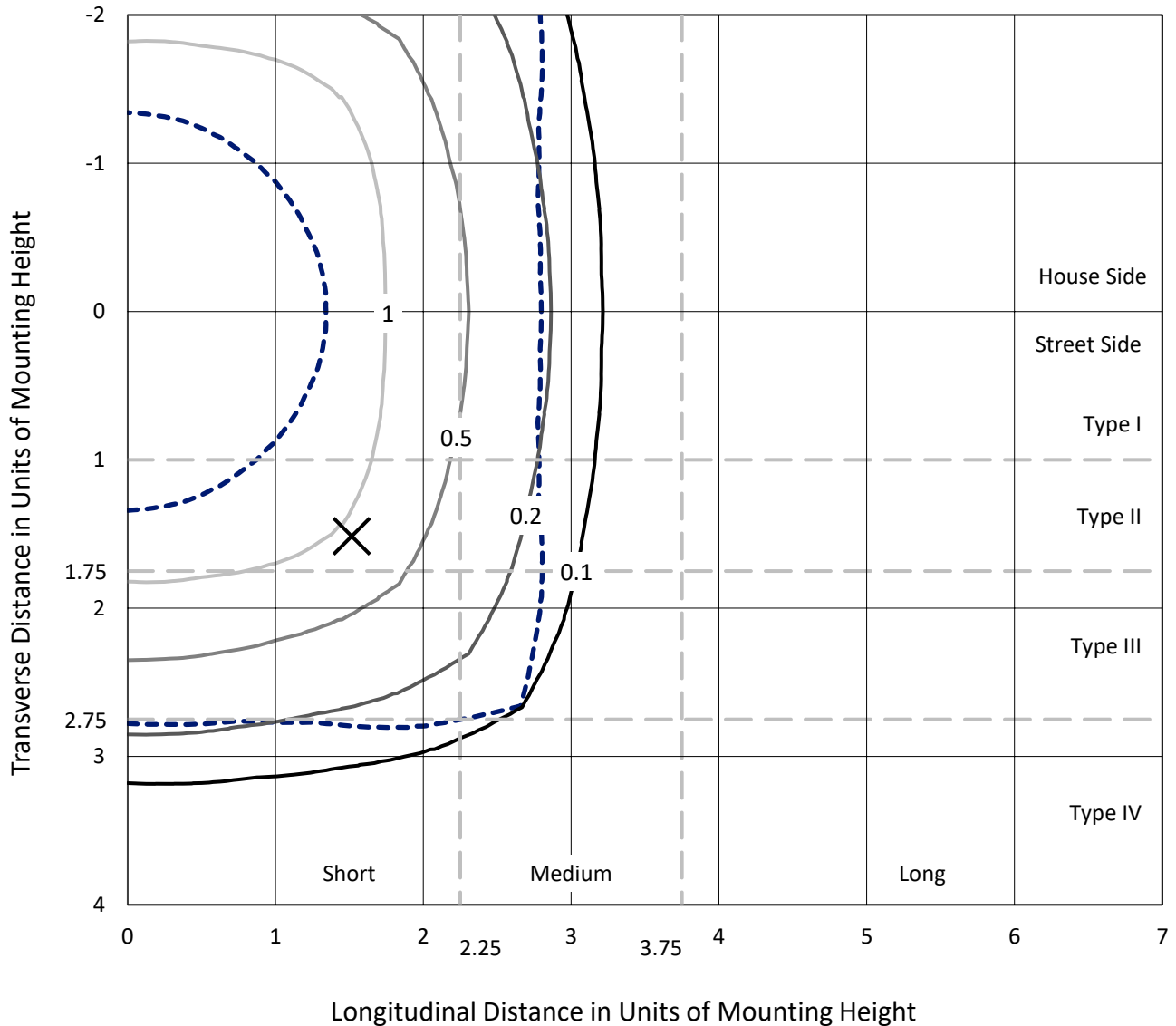
Lumens per Lamp: N/A  
Luminaire Lumens: 15978.7 lumens  
Efficiency: N/A  
Efficacy: 99.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

Input Watts (W): 160.8  
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

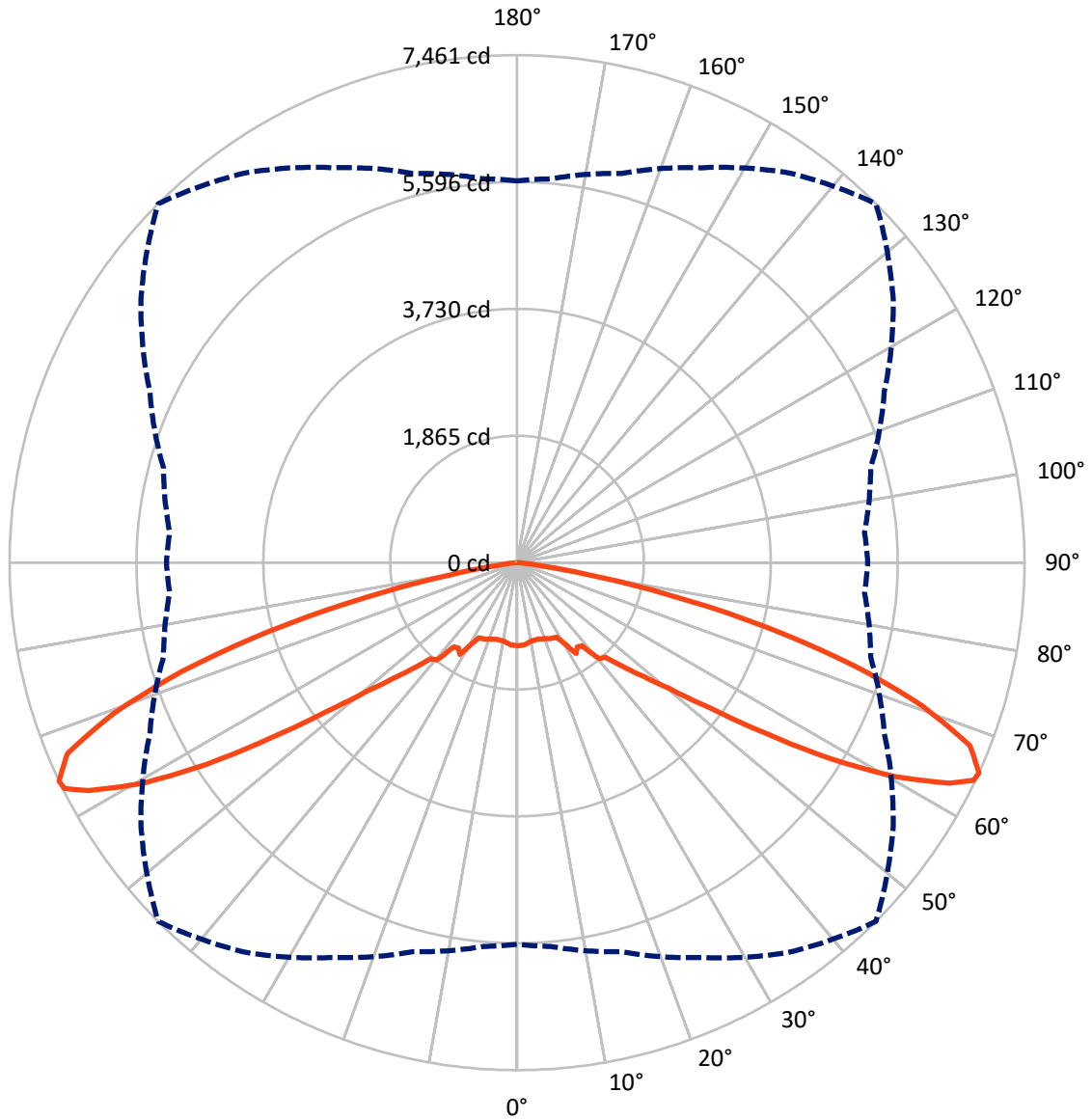
× Max cd  
 - - - 1/2 Max cd



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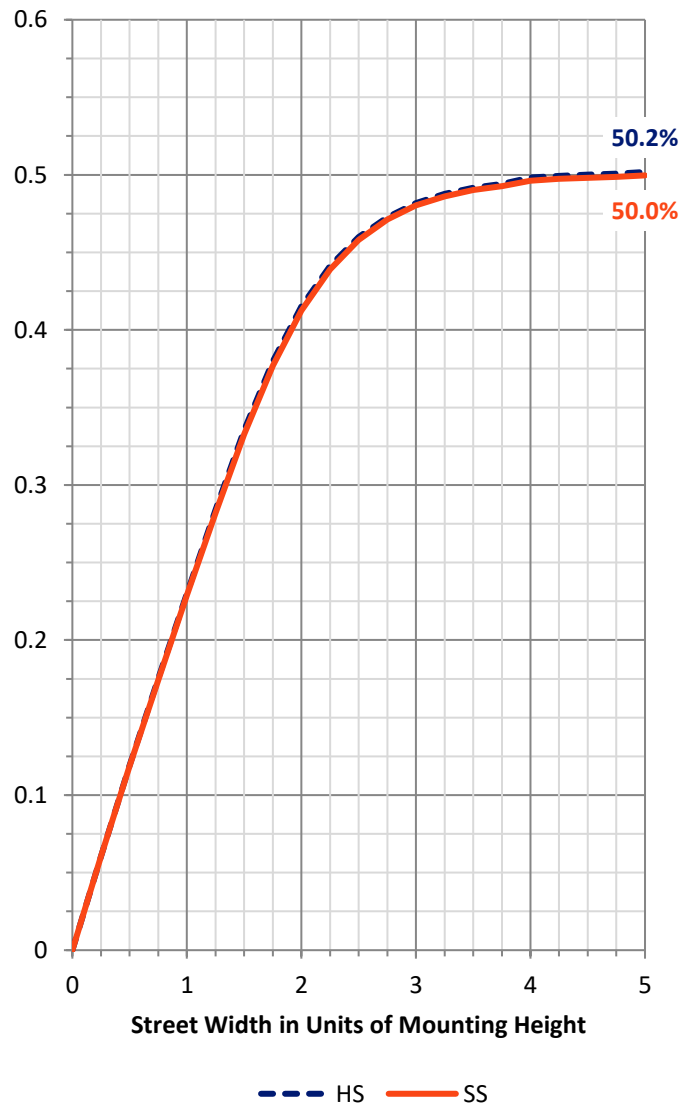
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7989.4	0.0	7989.4
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7989.4	0.0	7989.4
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	15978.7	0.0	15978.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.6	0.7
10°-20°	336.8	2.1
20°-30°	582.9	3.6
30°-40°	969.3	6.1
40°-50°	1748.7	10.9
50°-60°	3895.6	24.4
60°-70°	5805.7	36.3
70°-80°	2405.9	15.1
80°-90°	119.2	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°	15978.7	100.0
0°-180°	15978.7	100.0

**Coefficient of Utilization**



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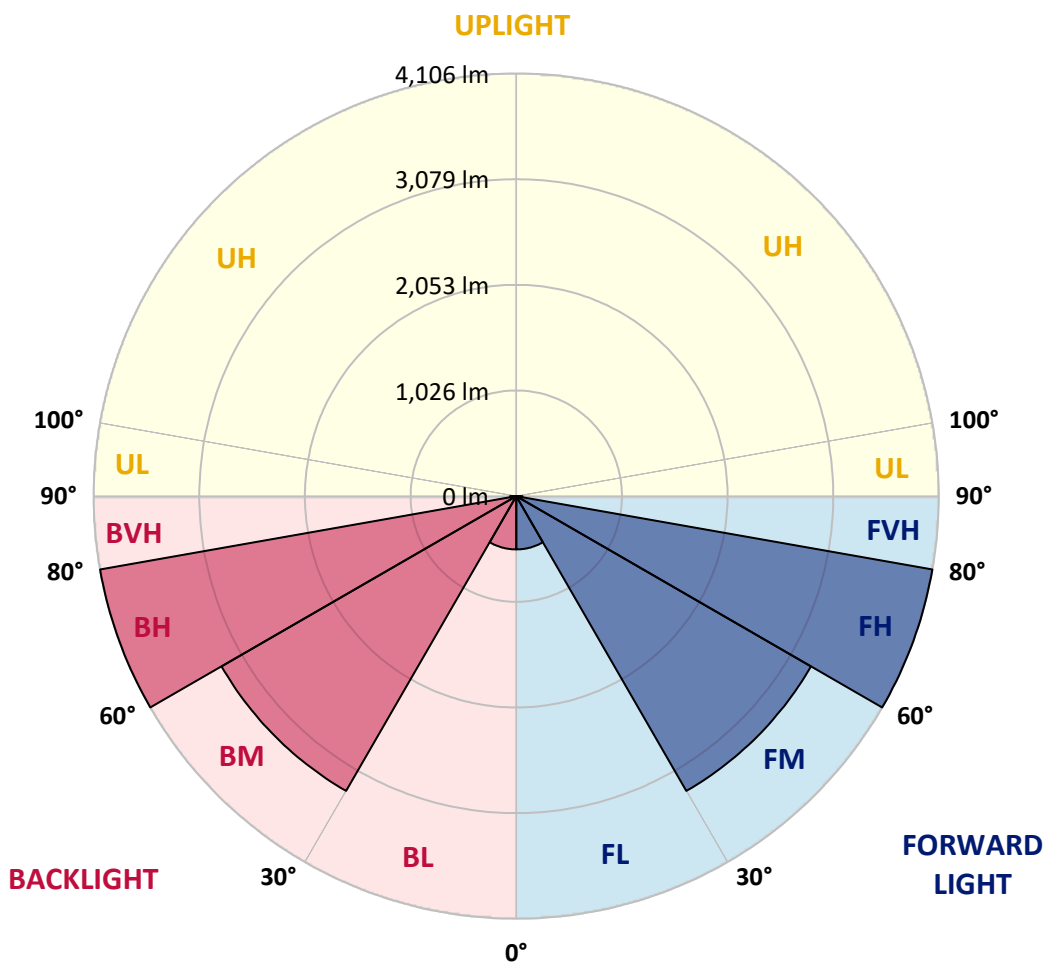
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	517.2	3.2			
FM (30°-60°)	3306.8	20.7			
FH (60°-80°)	4105.8	25.7			G2/5000
FVH (80°-90°)	59.6	0.4			G1/100
BL (0°-30°)	517.2	3.2	B2/1000		
BM (30°-60°)	3306.8	20.7	B3/5000		
BH (60°-80°)	4105.8	25.7	B4/5000		G2/5000
BVH (80°-90°)	59.6	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°	1221.7	1221.7	1221.7	1221.7	1221.7	1221.7	1221.7	1221.7	1221.7	1221.7	1221.7
2.5°	1207.5	1211.1	1209.3	1209.3	1214.6	1218.1	1219.9	1237.6	1230.5	1235.8	1230.5
5°	1211.1	1211.1	1214.6	1211.1	1214.6	1211.1	1214.6	1209.3	1214.6	1218.1	1223.4
7.5°	1204.0	1200.5	1195.2	1195.2	1193.4	1189.9	1184.6	1198.7	1191.7	1197.0	1205.8
10°	1205.8	1200.5	1182.8	1186.4	1170.5	1170.5	1174.0	1174.0	1189.9	1207.5	1212.8
12.5°	1205.8	1195.2	1189.9	1166.9	1166.9	1168.7	1177.5	1181.1	1191.7	1198.7	1216.4
15°	1205.8	1200.5	1191.7	1161.6	1168.7	1165.2	1174.0	1174.0	1197.0	1209.3	1218.1
17.5°	1212.8	1216.4	1200.5	1172.2	1174.0	1181.1	1175.8	1181.1	1209.3	1218.1	1230.5
20°	1214.6	1200.5	1195.2	1177.5	1193.4	1189.9	1188.1	1198.7	1207.5	1223.4	1237.6
22.5°	1211.1	1216.4	1195.2	1193.4	1207.5	1214.6	1218.1	1205.8	1216.4	1227.0	1239.3
25°	1241.1	1221.7	1216.4	1212.8	1219.9	1227.0	1223.4	1234.0	1234.0	1246.4	1262.3
27.5°	1322.3	1324.1	1313.5	1271.1	1257.0	1241.1	1248.1	1276.4	1309.9	1336.4	1341.7
30°	1359.4	1366.4	1394.7	1387.6	1382.3	1387.6	1385.9	1392.9	1396.4	1398.2	1392.9
32.5°	1392.9	1389.4	1377.0	1408.8	1513.0	1592.4	1516.5	1412.3	1389.4	1382.3	1389.4
35°	1514.7	1514.7	1488.2	1447.6	1502.4	1521.8	1486.5	1437.0	1465.3	1523.6	1527.1
37.5°	1671.8	1648.9	1659.5	1654.2	1594.2	1551.8	1613.6	1645.4	1650.7	1648.9	1666.6
40°	1765.4	1749.5	1733.6	1761.9	1816.6	1855.5	1800.7	1724.8	1744.2	1783.1	1767.2
42.5°	1979.0	1938.4	1942.0	1913.7	1911.9	1899.6	1887.2	1892.5	1920.8	1964.9	1972.0
45°	2197.9	2217.4	2205.0	2152.0	2176.8	2176.8	2141.5	2167.9	2182.1	2233.3	2240.3
47.5°	2540.4	2531.6	2536.9	2489.2	2487.5	2499.8	2487.5	2489.2	2533.4	2529.8	2510.4
50°	2941.2	2965.9	2973.0	2950.0	2921.8	2916.5	2897.0	2921.8	2948.2	2950.0	2934.1
52.5°	3495.5	3522.0	3522.0	3529.1	3564.4	3546.7	3543.2	3545.0	3493.8	3458.5	3476.1
55°	4194.6	4203.5	4233.5	4295.3	4402.9	4417.1	4350.0	4320.0	4226.4	4169.9	4214.1
57.5°	4884.9	4920.2	5003.2	5163.8	5296.3	5441.0	5246.8	5049.1	4865.5	4775.5	4791.3
60°	5458.7	5509.9	5668.8	5893.0	6260.2	6392.6	6064.2	5725.2	5352.7	5077.3	5188.6
62.5°	5728.8	5808.2	5942.4	6396.1	6946.9	7137.6	6655.6	6039.5	5474.6	5209.7	5204.4
64°	5730.5	5742.9	6011.2	6500.3	7067.0	7435.9	6798.6	6039.5	5504.6	5178.0	5238.0
65°	5612.3	5663.5	5923.0	6404.9	6991.1	7460.7	6749.2	5956.5	5381.0	5126.8	5155.0
67.5°	5075.6	5073.8	5313.9	5792.3	6606.2	7180.0	6329.0	5492.2	5075.6	4800.2	4833.7
70°	3850.4	3912.2	4141.7	4729.6	5716.4	6330.8	5534.6	4667.8	4148.7	3928.1	3915.7
72.5°	2303.9	2385.1	2678.1	3394.9	4440.0	5186.8	4392.4	3453.2	2828.2	2478.6	2487.5
75°	1050.4	1110.4	1311.7	1896.1	2958.8	3792.1	2976.5	1996.7	1431.8	1209.3	1177.5
77.5°	294.8	331.9	443.1	870.4	1624.2	2273.9	1670.1	962.2	625.0	519.0	508.4
80°	132.4	139.5	157.1	211.9	515.5	1002.8	690.3	353.1	234.8	194.2	185.4
82.5°	72.4	77.7	102.4	109.5	146.5	266.6	227.7	165.9	141.2	113.0	109.5
85°	40.6	42.4	58.3	58.3	70.6	77.7	83.0	88.3	86.5	63.6	61.8
87.5°	12.4	14.1	17.7	17.7	17.7	17.7	28.2	38.8	42.4	30.0	30.0
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)