

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: P524181

Luminaire Tested: **IFLD-S-SA2D-940-U-66**

Issue Date: 05/27/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P524181  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 05/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-940-U-66  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 66 distribution lens  
Light Source: (32) 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

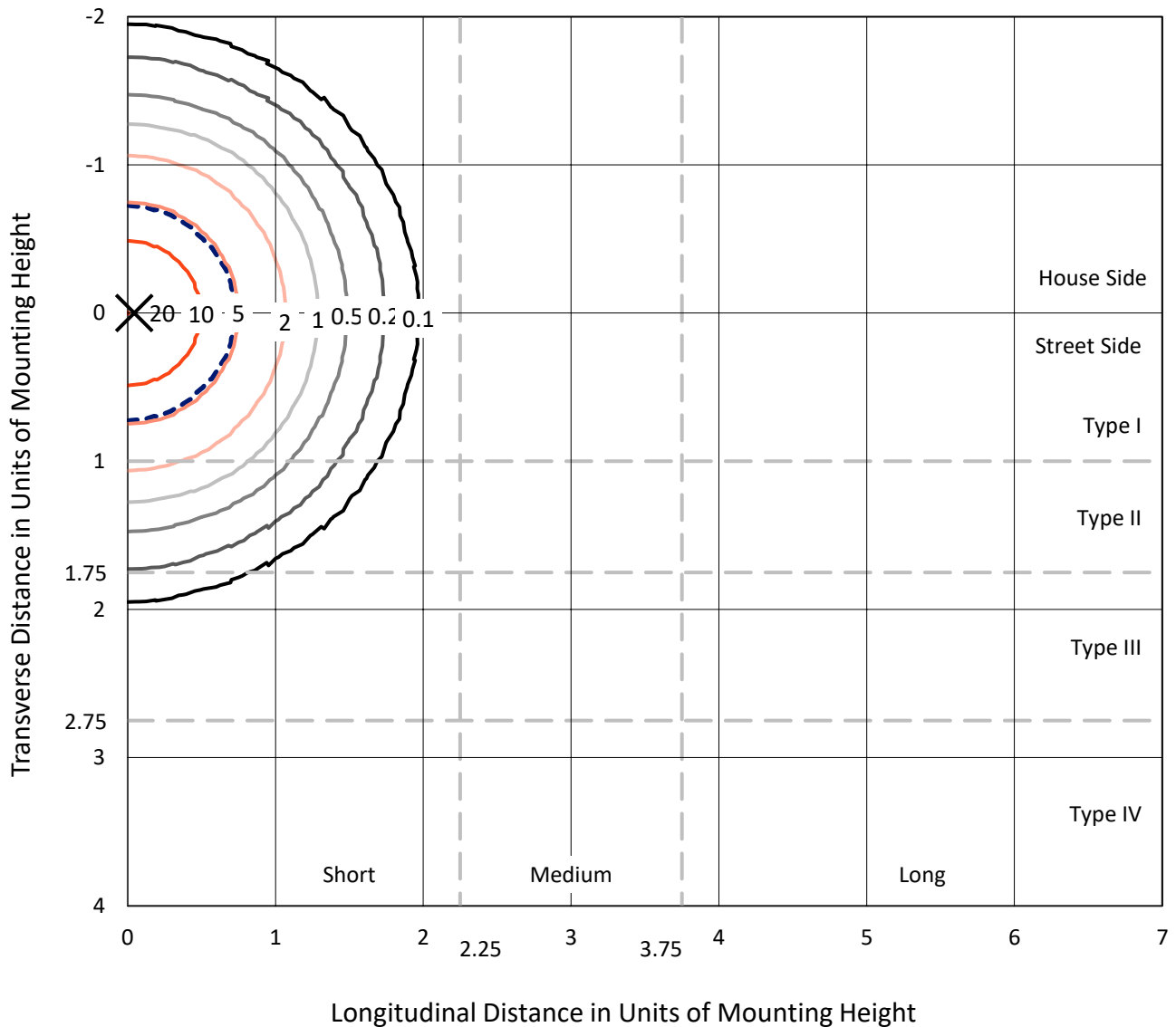
Lumens per Lamp: N/A  
Luminaire Lumens: 11725.7 lumens  
Efficiency: N/A  
Efficacy: 94.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

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

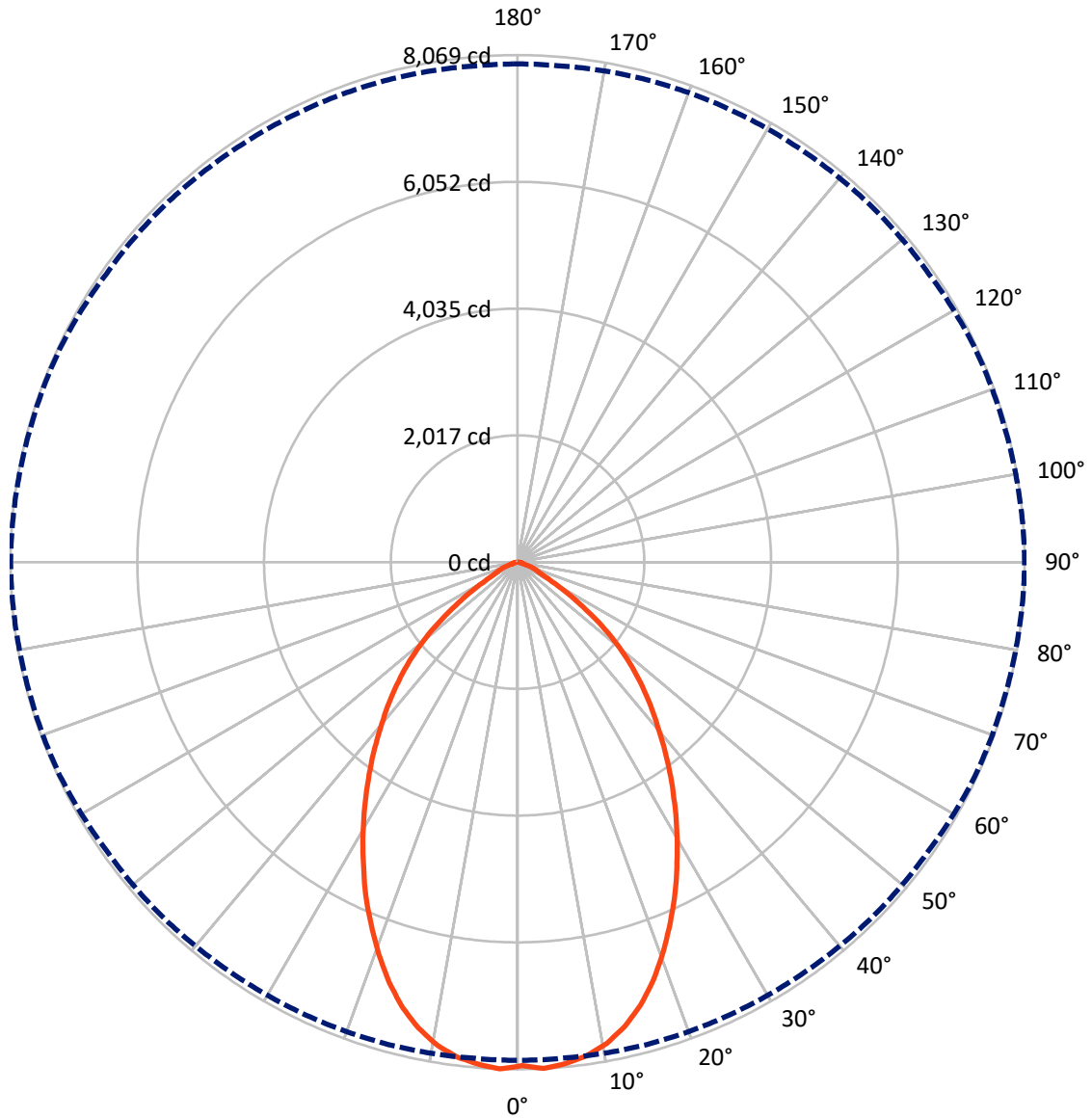
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 20 fc  
 Type V - Short - N/A

REPORT NUMBER: P524181  
CATALOG NUMBER: IFLD-S-SA2D-940-U-66

### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral      - - - Horizontal Cone Through 2.5-Deg Vertical

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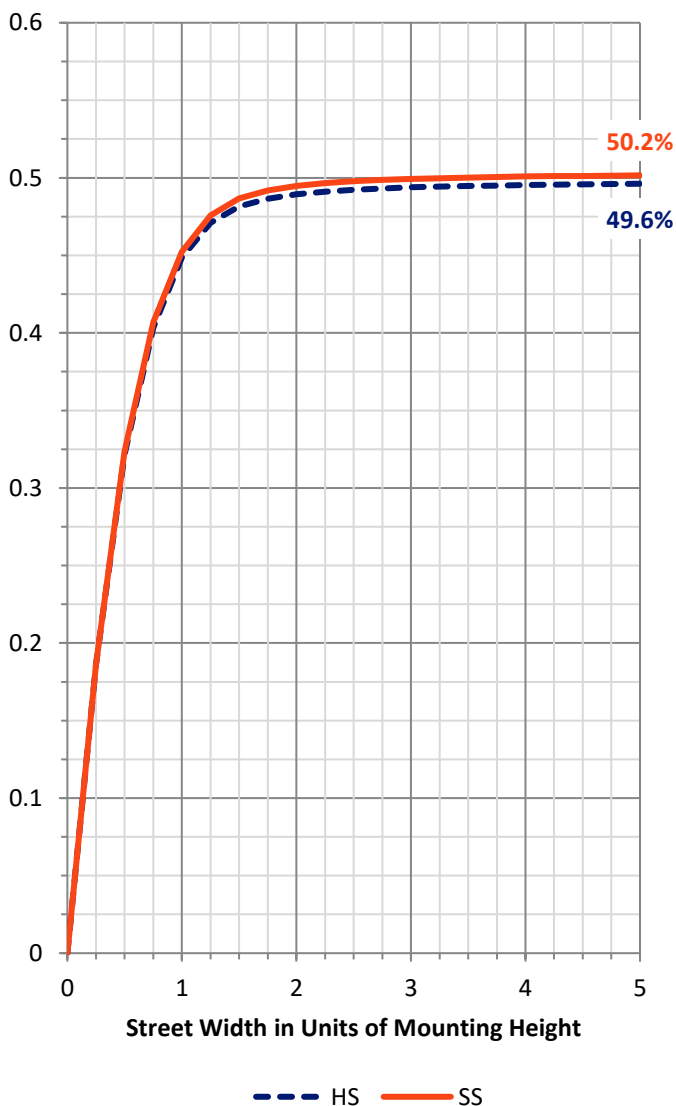
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5862.9	0.0	5862.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5862.9	0.0	5862.9
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	11725.7	0.0	11725.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	752.4	6.4
10°-20°	2021.7	17.2
20°-30°	2615.7	22.3
30°-40°	2579.7	22.0
40°-50°	2087.1	17.8
50°-60°	1136.4	9.7
60°-70°	360.1	3.1
70°-80°	139.3	1.2
80°-90°	33.3	0.3
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°	11725.7	100.0
0°-180°	11725.7	100.0

**Coefficient of Utilization**



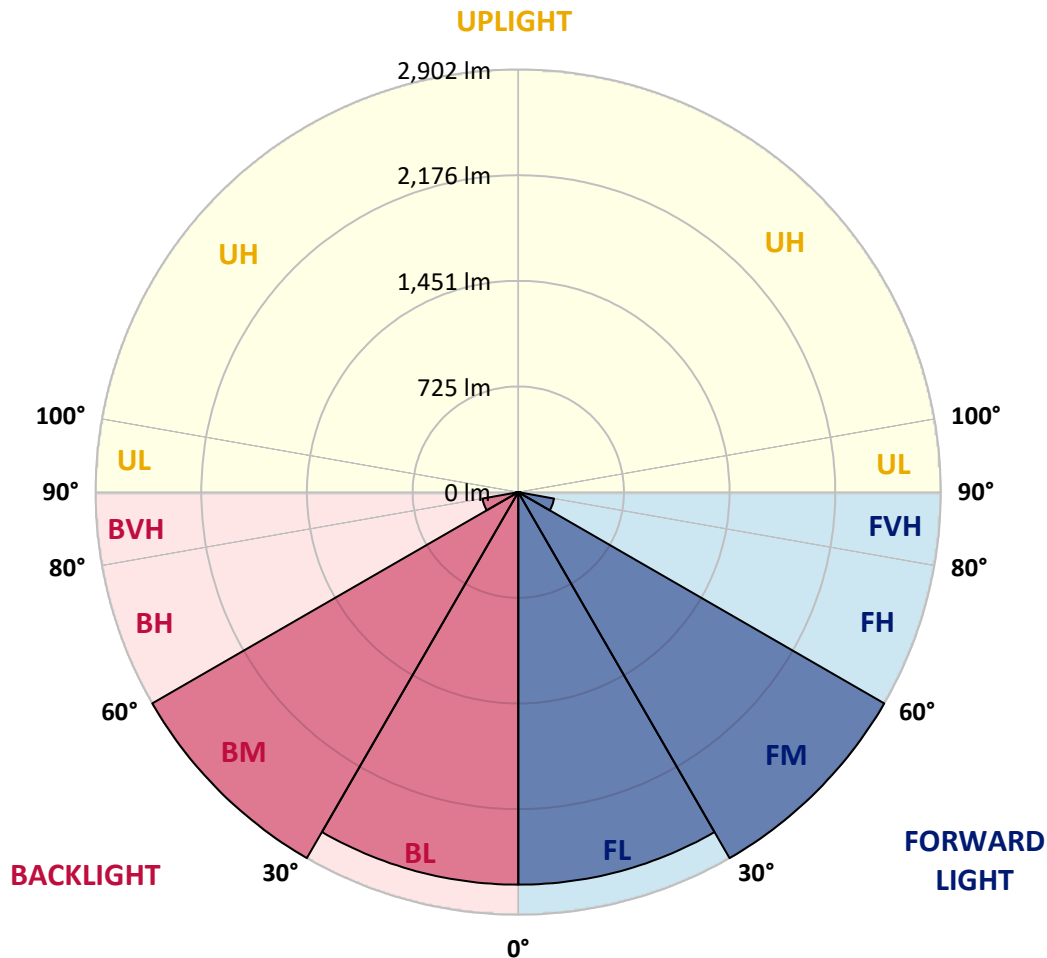
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 CATALOG NUMBER: IFLD-S-SA2D-940-U-66

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2694.9	23.0			
FM (30°-60°)	2901.6	24.7			
FH (60°-80°)	249.7	2.1			G0/660
FVH (80°-90°)	16.7	0.1			G1/100
BL (0°-30°)	2694.9	23.0	B4/5000		
BM (30°-60°)	2901.6	24.7	B3/5000		
BH (60°-80°)	249.7	2.1	B1/500		G0/660
BVH (80°-90°)	16.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8014.8	8014.8	8014.8	8014.8	8014.8	8014.8	8014.8	8014.8	8014.8	8014.8	8014.8
2.5°	7928.4	7926.7	7947.0	7955.5	7965.7	7986.0	7992.8	8036.8	8041.9	8058.9	8069.0
5°	7914.9	7908.1	7928.4	7931.8	7943.7	7947.0	7957.2	7987.7	7984.3	8009.7	8014.8
7.5°	7842.0	7833.5	7850.5	7853.9	7870.8	7865.7	7882.7	7904.7	7904.7	7923.3	7931.8
10°	7679.4	7677.7	7694.6	7696.3	7720.0	7715.0	7742.1	7747.1	7760.7	7774.2	7789.5
12.5°	7484.6	7462.5	7484.6	7476.1	7508.3	7489.6	7526.9	7538.8	7545.5	7569.3	7581.1
15°	7233.8	7206.7	7222.0	7213.5	7233.8	7210.1	7249.1	7272.8	7281.3	7305.0	7316.8
17.5°	6898.4	6876.4	6879.8	6867.9	6881.5	6862.8	6900.1	6937.4	6949.2	6974.6	6991.6
20°	6476.6	6476.6	6478.3	6468.1	6480.0	6461.3	6485.0	6542.6	6554.5	6588.4	6617.2
22.5°	6064.9	6064.9	6070.0	6056.4	6059.8	6051.3	6076.8	6132.7	6151.3	6186.9	6222.4
25°	5670.2	5663.4	5666.8	5654.9	5641.4	5644.8	5675.3	5710.8	5751.5	5797.2	5824.3
27.5°	5294.1	5302.5	5282.2	5273.7	5263.6	5244.9	5280.5	5324.6	5353.4	5390.6	5404.2
30°	4892.6	4909.5	4894.3	4887.5	4862.1	4838.4	4875.6	4919.7	4948.5	4984.1	4999.3
32.5°	4535.1	4530.0	4516.5	4501.2	4475.8	4457.2	4472.4	4523.3	4545.3	4582.6	4587.6
35°	4152.3	4148.9	4140.4	4109.9	4101.4	4079.4	4093.0	4137.0	4153.9	4176.0	4192.9
37.5°	3777.9	3766.0	3762.6	3750.7	3735.5	3730.4	3730.4	3754.1	3771.1	3793.1	3810.0
40°	3406.8	3410.2	3400.1	3389.9	3384.8	3378.0	3379.7	3393.3	3406.8	3417.0	3427.2
42.5°	3071.4	3052.8	3046.0	3035.8	3040.9	3049.4	3030.8	3051.1	3068.0	3068.0	3090.0
45°	2686.9	2695.3	2698.7	2715.7	2715.7	2707.2	2700.4	2710.6	2727.5	2725.8	2747.8
47.5°	2351.4	2341.3	2349.7	2375.1	2397.2	2400.5	2380.2	2385.3	2390.4	2381.9	2402.2
50°	1983.8	1987.2	1985.5	2024.5	2068.5	2053.3	2038.0	2043.1	2041.4	2041.4	2044.8
52.5°	1584.0	1592.5	1582.3	1638.2	1685.6	1673.8	1663.6	1663.6	1672.1	1670.4	1668.7
55°	1219.8	1216.4	1194.3	1221.4	1263.8	1265.5	1250.2	1257.0	1265.5	1274.0	1272.3
57.5°	908.0	897.9	867.4	869.1	916.5	928.4	914.8	913.1	923.3	926.7	945.3
60°	611.6	609.9	582.8	581.1	599.7	631.9	616.7	616.7	620.0	625.1	630.2
62.5°	418.4	421.8	411.7	410.0	413.4	440.5	438.8	437.1	435.4	442.2	440.5
65°	328.7	330.4	327.0	327.0	328.7	340.5	352.4	354.1	355.8	357.5	355.8
67.5°	264.3	266.0	262.6	266.0	266.0	267.7	284.6	291.4	293.1	293.1	291.4
70°	203.3	210.1	213.5	213.5	213.5	213.5	225.3	233.8	232.1	221.9	211.8
72.5°	101.6	123.7	171.1	172.8	171.1	169.4	176.2	184.7	183.0	128.8	96.6
75°	67.8	72.8	133.8	140.6	138.9	132.1	138.9	149.1	145.7	83.0	79.6
77.5°	39.0	42.4	89.8	103.3	111.8	96.6	110.1	120.3	115.2	67.8	66.1
80°	30.5	28.8	64.4	79.6	76.2	61.0	89.8	96.6	88.1	50.8	45.7
82.5°	18.6	18.6	42.4	61.0	55.9	35.6	62.7	74.5	66.1	37.3	33.9
85°	10.2	11.9	20.3	30.5	32.2	23.7	33.9	40.7	40.7	23.7	23.7
87.5°	5.1	5.1	6.8	6.8	8.5	10.2	10.2	11.9	8.5	6.8	6.8
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)