

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: P479629

Luminaire Tested: **IFLD-L-SA8A-727-U-5WQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479629  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8A-727-U-5WQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5WQ distribution lens  
Light Source: (128) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

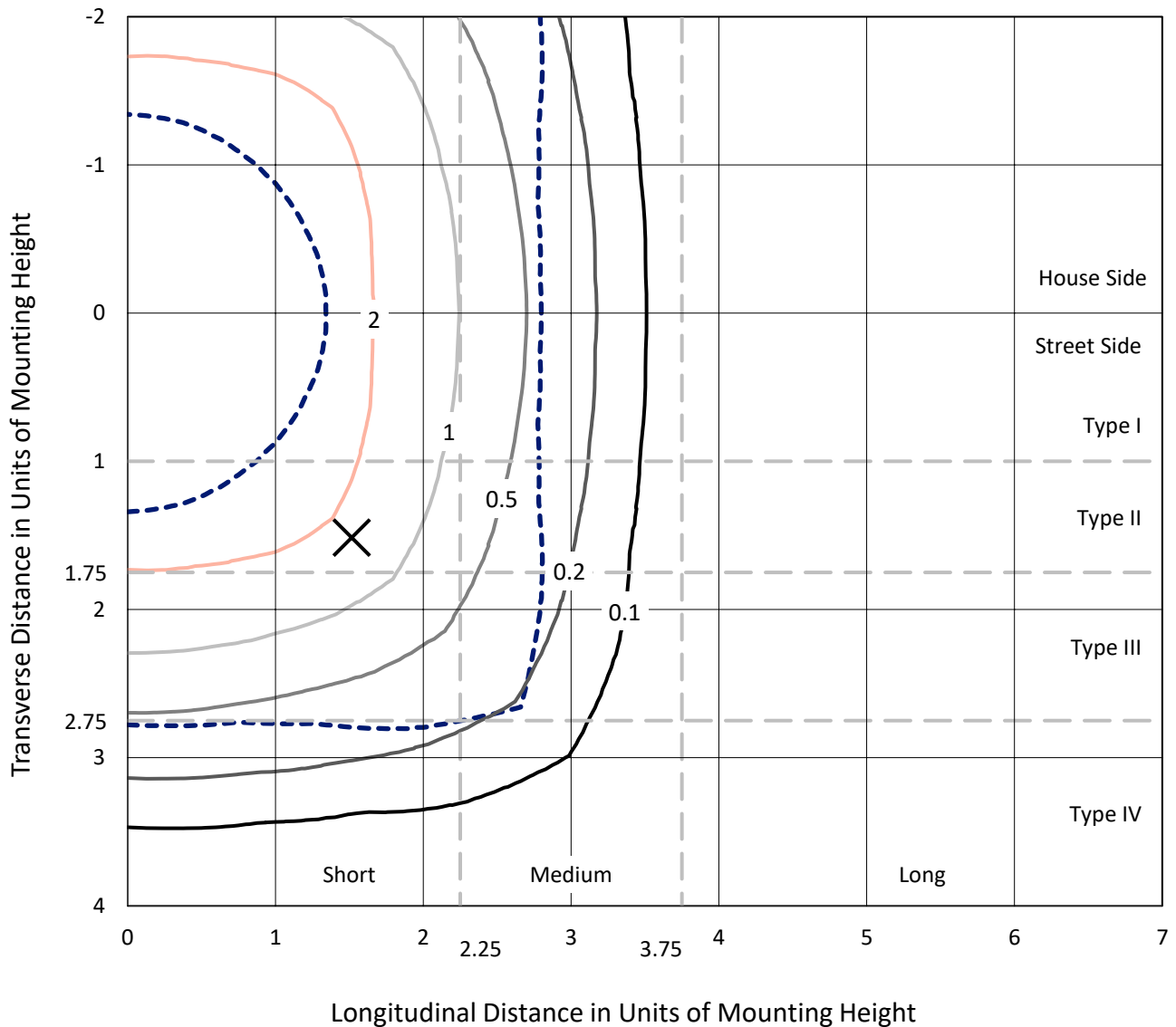
Lumens per Lamp: N/A  
Luminaire Lumens: 29398.8 lumens  
Efficiency: N/A  
Efficacy: 118.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

Input Watts (W): 247.8  
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

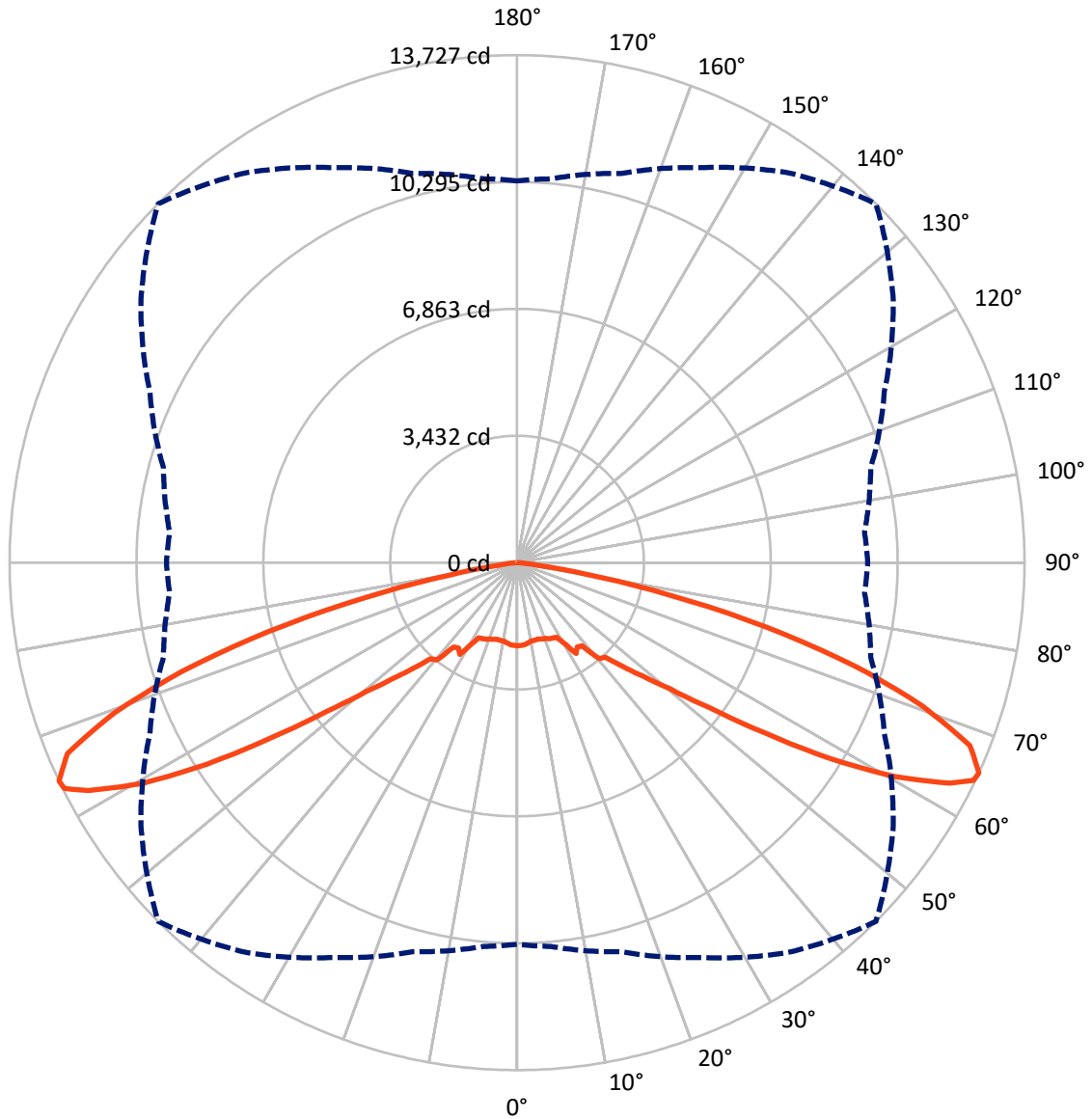
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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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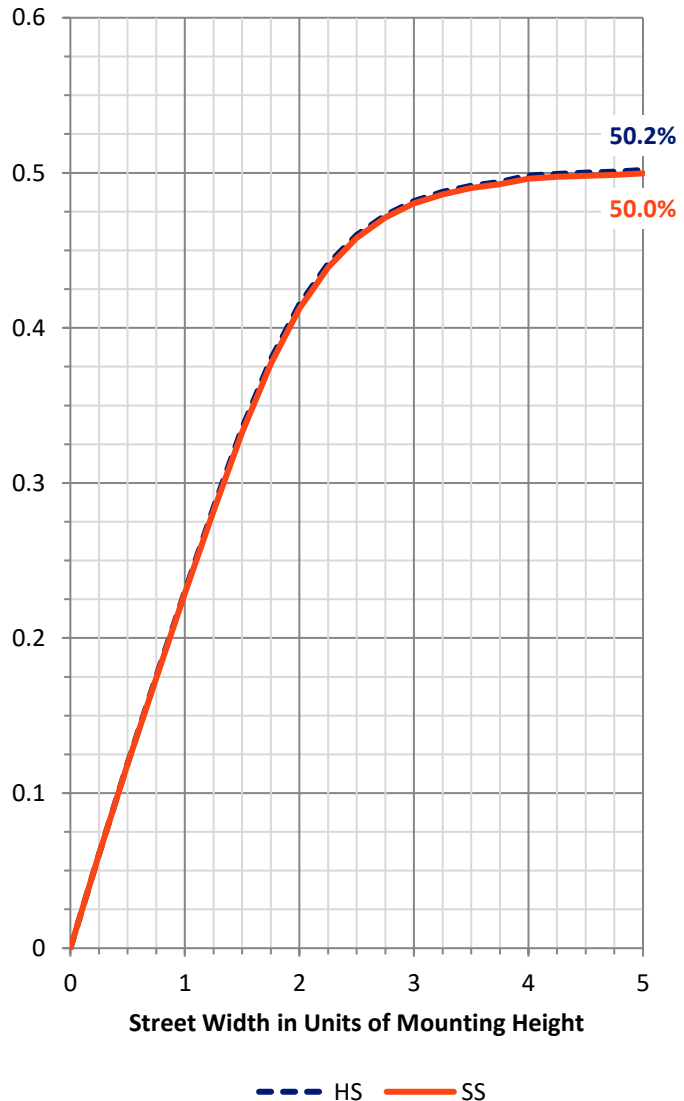
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14699.4	0.0	14699.4
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	14699.4	0.0	14699.4
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	29398.8	0.0	29398.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	210.9	0.7
10°-20°	619.6	2.1
20°-30°	1072.5	3.6
30°-40°	1783.4	6.1
40°-50°	3217.4	10.9
50°-60°	7167.4	24.4
60°-70°	10681.7	36.3
70°-80°	4426.6	15.1
80°-90°	219.3	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°	29398.8	100.0
0°-180°	29398.8	100.0

**Coefficient of Utilization**



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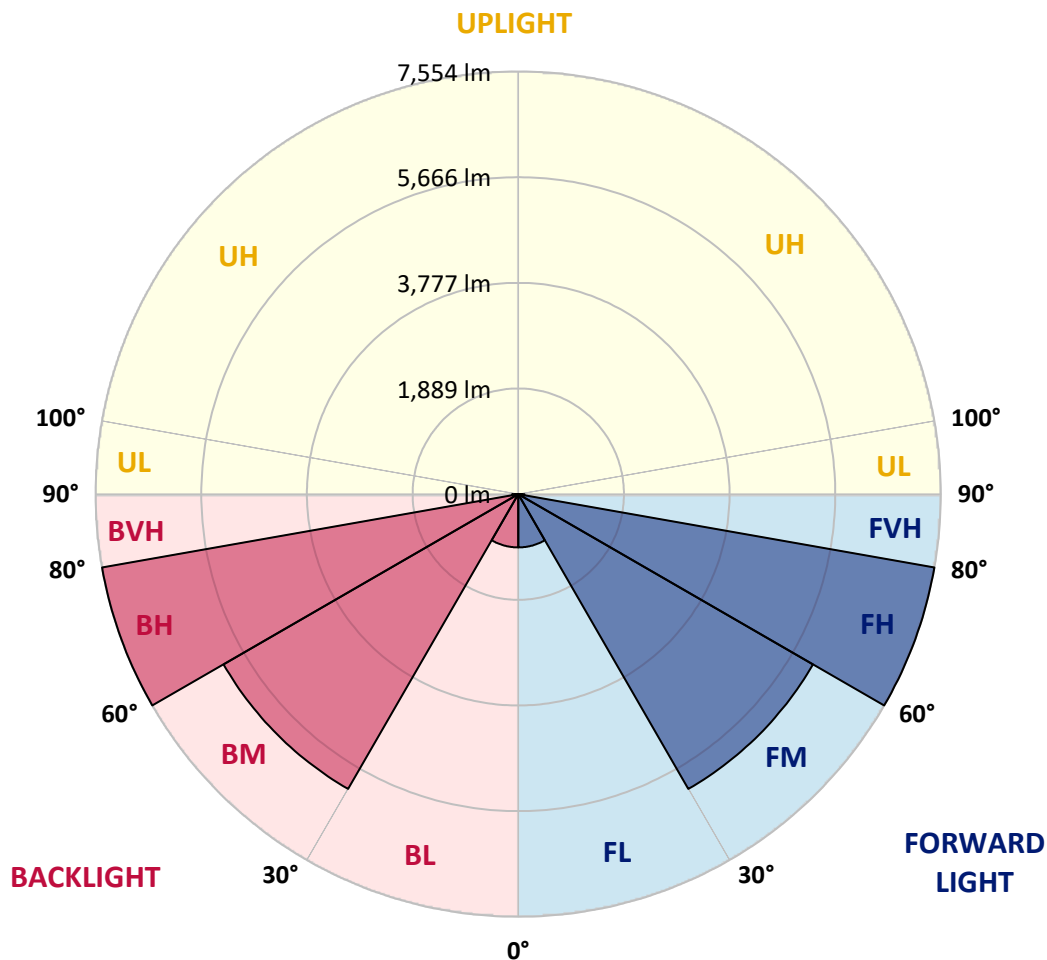
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	951.5	3.2			
FM (30°-60°)	6084.1	20.7			
FH (60°-80°)	7554.2	25.7			G4/12000
FVH (80°-90°)	109.6	0.4			G2/225
BL (0°-30°)	951.5	3.2	B2/1000		
BM (30°-60°)	6084.1	20.7	B4/8500		
BH (60°-80°)	7554.2	25.7	B5		G4/12000
BVH (80°-90°)	109.6	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G4**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2247.7	2247.7	2247.7	2247.7	2247.7	2247.7	2247.7	2247.7	2247.7	2247.7	2247.7
2.5°	2221.7	2228.2	2225.0	2225.0	2234.7	2241.2	2244.5	2277.0	2264.0	2273.7	2264.0
5°	2228.2	2228.2	2234.7	2228.2	2234.7	2228.2	2234.7	2225.0	2234.7	2241.2	2251.0
7.5°	2215.2	2208.7	2199.0	2199.0	2195.7	2189.3	2179.5	2205.5	2192.5	2202.2	2218.5
10°	2218.5	2208.7	2176.3	2182.8	2153.5	2153.5	2160.0	2160.0	2189.3	2221.7	2231.5
12.5°	2218.5	2199.0	2189.3	2147.0	2147.0	2150.3	2166.5	2173.0	2192.5	2205.5	2238.0
15°	2218.5	2208.7	2192.5	2137.3	2150.3	2143.8	2160.0	2160.0	2202.2	2225.0	2241.2
17.5°	2231.5	2238.0	2208.7	2156.8	2160.0	2173.0	2163.3	2173.0	2225.0	2241.2	2264.0
20°	2234.7	2208.7	2199.0	2166.5	2195.7	2189.3	2186.0	2205.5	2221.7	2251.0	2277.0
22.5°	2228.2	2238.0	2199.0	2195.7	2221.7	2234.7	2241.2	2218.5	2238.0	2257.5	2280.2
25°	2283.4	2247.7	2238.0	2231.5	2244.5	2257.5	2251.0	2270.5	2270.5	2293.2	2322.4
27.5°	2432.9	2436.1	2416.6	2338.7	2312.7	2283.4	2296.4	2348.4	2410.1	2458.8	2468.6
30°	2501.1	2514.1	2566.0	2553.0	2543.3	2553.0	2549.8	2562.8	2569.3	2572.5	2562.8
32.5°	2562.8	2556.3	2533.6	2592.0	2783.7	2929.8	2790.2	2598.5	2556.3	2543.3	2556.3
35°	2786.9	2786.9	2738.2	2663.5	2764.2	2799.9	2734.9	2644.0	2696.0	2803.2	2809.6
37.5°	3076.0	3033.8	3053.3	3043.5	2933.1	2855.1	2968.8	3027.3	3037.0	3033.8	3066.3
40°	3248.2	3218.9	3189.7	3241.7	3342.3	3413.8	3313.1	3173.4	3209.2	3280.6	3251.4
42.5°	3641.2	3566.5	3573.0	3521.0	3517.7	3495.0	3472.3	3482.0	3534.0	3615.2	3628.2
45°	4043.9	4079.7	4056.9	3959.5	4005.0	4005.0	3940.0	3988.7	4014.7	4108.9	4121.9
47.5°	4674.1	4657.8	4667.6	4579.9	4576.6	4599.4	4576.6	4579.9	4661.1	4654.6	4618.9
50°	5411.4	5456.9	5469.9	5427.7	5375.7	5365.9	5330.2	5375.7	5424.4	5427.7	5398.4
52.5°	6431.3	6480.1	6480.1	6493.1	6558.0	6525.5	6519.0	6522.3	6428.1	6363.1	6395.6
55°	7717.6	7733.8	7789.1	7902.7	8100.9	8126.9	8003.4	7948.2	7776.1	7672.1	7753.3
57.5°	8987.6	9052.6	9205.3	9500.8	9744.5	10010.8	9653.5	9289.7	8951.9	8786.2	8815.5
60°	10043.3	10137.5	10429.8	10842.3	11517.9	11761.6	11157.4	10533.8	9848.4	9341.7	9546.3
62.5°	10540.2	10686.4	10933.3	11768.0	12781.5	13132.3	12245.5	11111.9	10072.5	9585.3	9575.5
64°	10543.5	10566.2	11060.0	11959.7	13002.3	13681.2	12508.6	11111.9	10127.7	9526.8	9637.3
65°	10325.9	10420.1	10897.5	11784.3	12862.7	13726.7	12417.7	10959.3	9900.4	9432.6	9484.6
67.5°	9338.4	9335.2	9776.9	10657.2	12154.6	13210.2	11644.6	10105.0	9338.4	8831.7	8893.4
70°	7084.2	7197.9	7620.2	8701.8	10517.5	11647.9	10183.0	8588.1	7633.2	7227.1	7204.4
72.5°	4238.8	4388.3	4927.4	6246.2	8169.1	9543.1	8081.4	6353.4	5203.5	4560.4	4576.6
75°	1932.6	2043.1	2413.4	3488.5	5443.9	6977.0	5476.4	3673.7	2634.2	2225.0	2166.5
77.5°	542.4	610.7	815.3	1601.3	2988.3	4183.6	3072.7	1770.2	1149.8	955.0	935.5
80°	243.6	256.6	289.1	389.8	948.5	1844.9	1270.0	649.6	432.0	357.3	341.1
82.5°	133.2	142.9	188.4	201.4	269.6	490.5	419.0	305.3	259.9	207.9	201.4
85°	74.7	78.0	107.2	107.2	129.9	142.9	152.7	162.4	159.2	116.9	113.7
87.5°	22.7	26.0	32.5	32.5	32.5	32.5	52.0	71.5	78.0	55.2	55.2
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)