

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: P479903

Luminaire Tested: **IFLD-L-SA8B-830-U-5WQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479903  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8B-830-U-5WQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5WQ distribution lens  
Light Source: (128) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

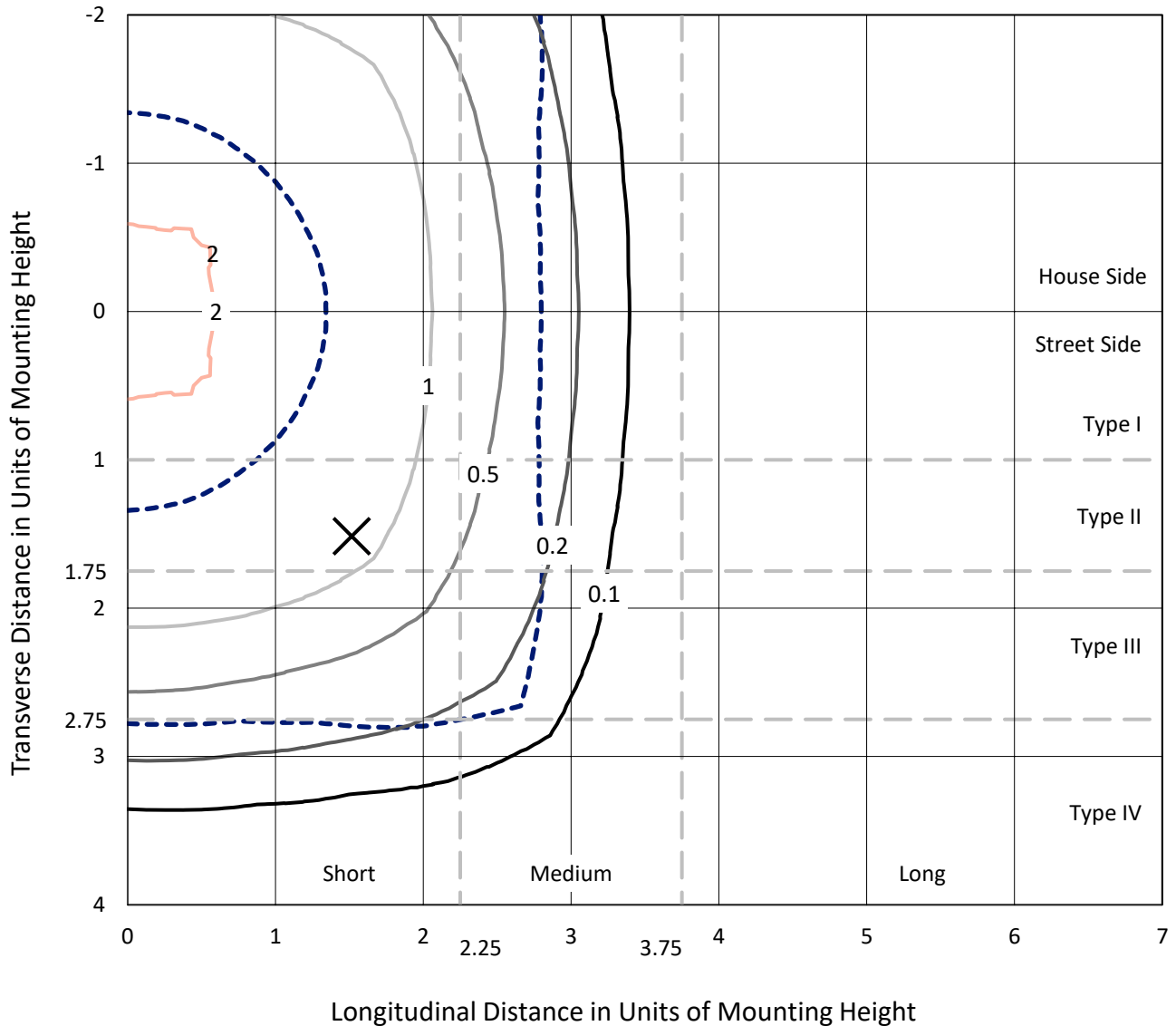
Lumens per Lamp: N/A  
Luminaire Lumens: 33186.2 lumens  
Efficiency: N/A  
Efficacy: 103.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

Input Watts (W): 320  
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

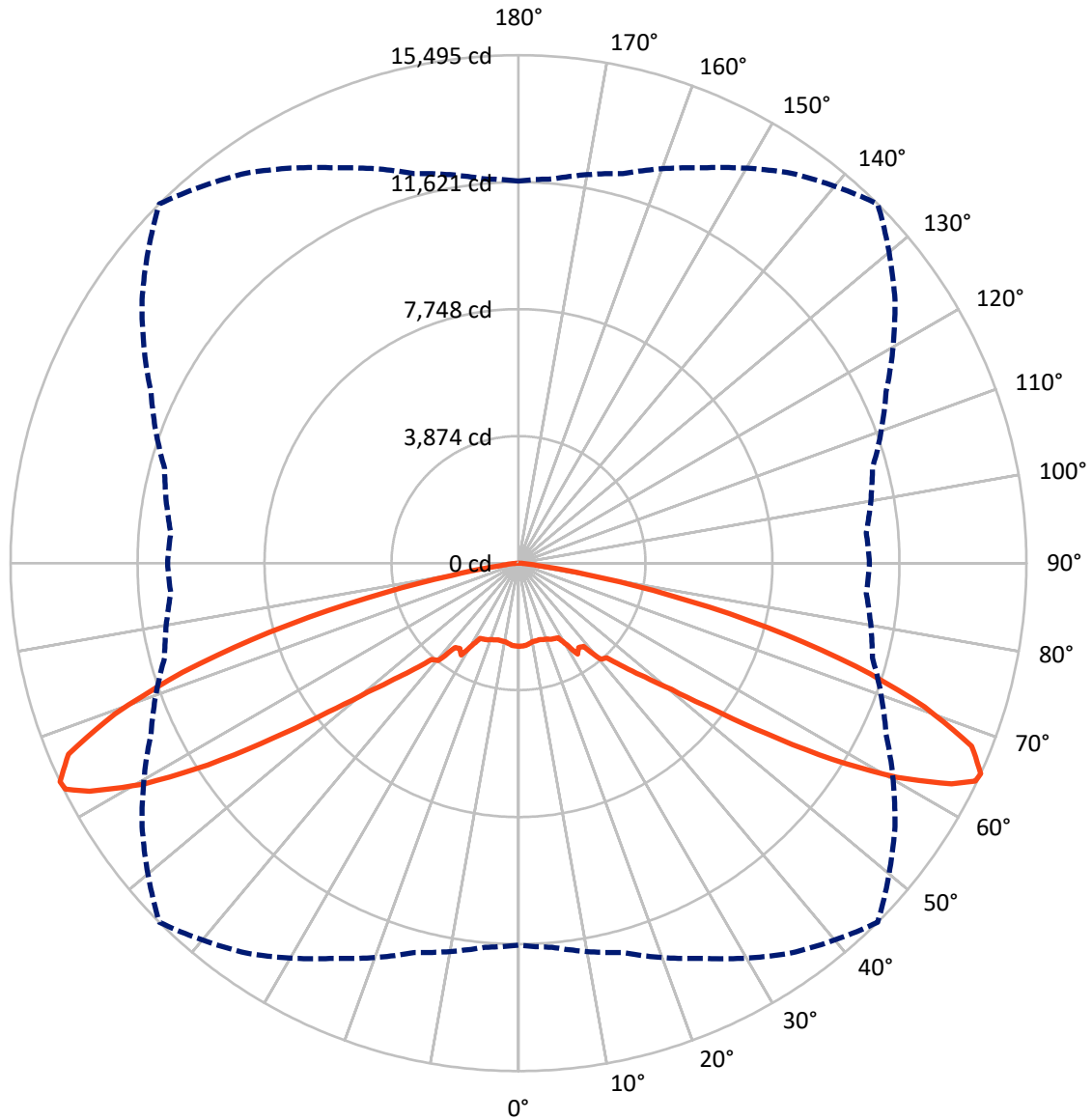
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 2.8 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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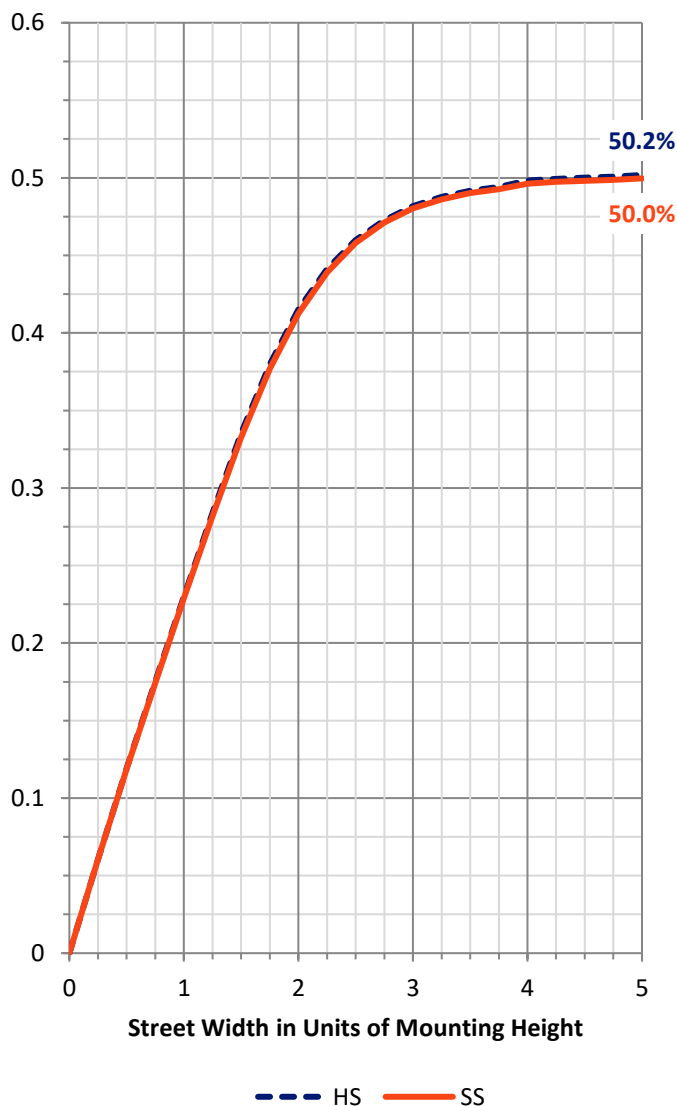
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16593.1	0.0	16593.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	16593.1	0.0	16593.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	33186.2	0.0	33186.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	238.1	0.7
10°-20°	699.4	2.1
20°-30°	1210.7	3.6
30°-40°	2013.1	6.1
40°-50°	3631.9	10.9
50°-60°	8090.7	24.4
60°-70°	12057.8	36.3
70°-80°	4996.9	15.1
80°-90°	247.5	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°	33186.2	100.0
0°-180°	33186.2	100.0

**Coefficient of Utilization**



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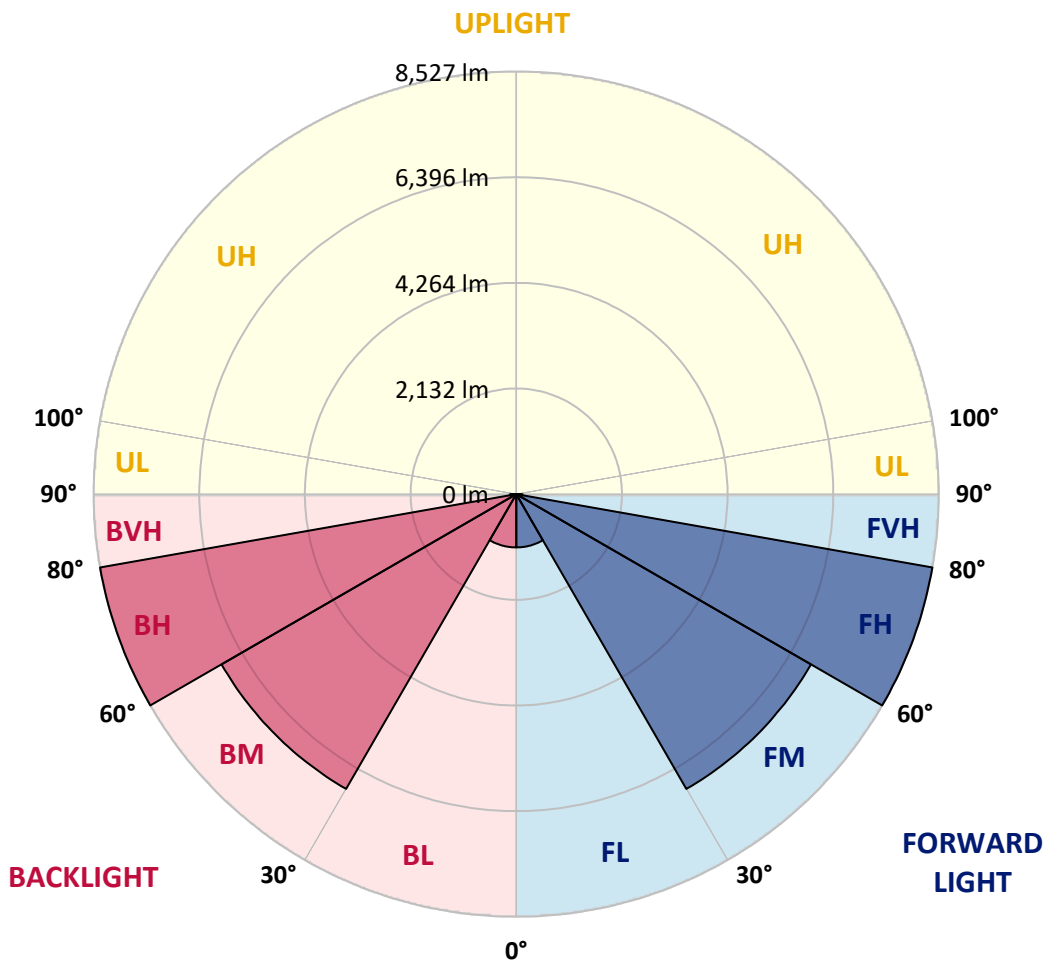
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1074.1	3.2			
FM (30°-60°)	6867.9	20.7			
FH (60°-80°)	8527.4	25.7			G4/12000
FVH (80°-90°)	123.7	0.4			G2/225
BL (0°-30°)	1074.1	3.2	B3/2500		
BM (30°-60°)	6867.9	20.7	B4/8500		
BH (60°-80°)	8527.4	25.7	B5		G4/12000
BVH (80°-90°)	123.7	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°	2537.3	2537.3	2537.3	2537.3	2537.3	2537.3	2537.3	2537.3	2537.3	2537.3	2537.3
2.5°	2508.0	2515.3	2511.6	2511.6	2522.6	2530.0	2533.6	2570.3	2555.6	2566.6	2555.6
5°	2515.3	2515.3	2522.6	2515.3	2522.6	2515.3	2522.6	2511.6	2522.6	2530.0	2541.0
7.5°	2500.6	2493.3	2482.3	2482.3	2478.6	2471.3	2460.3	2489.6	2475.0	2486.0	2504.3
10°	2504.3	2493.3	2456.6	2464.0	2431.0	2431.0	2438.3	2438.3	2471.3	2508.0	2519.0
12.5°	2504.3	2482.3	2471.3	2423.6	2423.6	2427.3	2445.6	2453.0	2475.0	2489.6	2526.3
15°	2504.3	2493.3	2475.0	2412.6	2427.3	2420.0	2438.3	2438.3	2486.0	2511.6	2530.0
17.5°	2519.0	2526.3	2493.3	2434.6	2438.3	2453.0	2442.0	2453.0	2511.6	2530.0	2555.6
20°	2522.6	2493.3	2482.3	2445.6	2478.6	2471.3	2467.6	2489.6	2508.0	2541.0	2570.3
22.5°	2515.3	2526.3	2482.3	2478.6	2508.0	2522.6	2530.0	2504.3	2526.3	2548.3	2574.0
25°	2577.6	2537.3	2526.3	2519.0	2533.6	2548.3	2541.0	2563.0	2563.0	2588.6	2621.6
27.5°	2746.3	2749.9	2727.9	2640.0	2610.6	2577.6	2592.3	2650.9	2720.6	2775.6	2786.6
30°	2823.3	2837.9	2896.6	2881.9	2870.9	2881.9	2878.3	2892.9	2900.3	2903.9	2892.9
32.5°	2892.9	2885.6	2859.9	2925.9	3142.3	3307.3	3149.6	2933.3	2885.6	2870.9	2885.6
35°	3145.9	3145.9	3090.9	3006.6	3120.3	3160.6	3087.3	2984.6	3043.3	3164.3	3171.6
37.5°	3472.3	3424.6	3446.6	3435.6	3310.9	3222.9	3351.3	3417.3	3428.3	3424.6	3461.3
40°	3666.6	3633.6	3600.6	3659.3	3772.9	3853.6	3739.9	3582.3	3622.6	3703.3	3670.3
42.5°	4110.3	4025.9	4033.3	3974.6	3970.9	3945.3	3919.6	3930.6	3989.3	4080.9	4095.6
45°	4564.9	4605.2	4579.6	4469.6	4520.9	4520.9	4447.6	4502.6	4531.9	4638.2	4652.9
47.5°	5276.2	5257.9	5268.9	5169.9	5166.2	5191.9	5166.2	5169.9	5261.6	5254.2	5213.9
50°	6108.6	6159.9	6174.6	6126.9	6068.2	6057.2	6016.9	6068.2	6123.2	6126.9	6093.9
52.5°	7259.9	7314.9	7314.9	7329.5	7402.9	7366.2	7358.9	7362.5	7256.2	7182.9	7219.5
55°	8711.8	8730.2	8792.5	8920.8	9144.5	9173.8	9034.5	8972.2	8777.8	8660.5	8752.2
57.5°	10145.5	10218.8	10391.1	10724.8	10999.8	11300.5	10897.1	10486.5	10105.1	9918.1	9951.1
60°	11337.1	11443.5	11773.4	12239.1	13001.8	13276.7	12594.8	11890.8	11117.1	10545.1	10776.1
62.5°	11898.1	12063.1	12341.8	13284.1	14428.1	14824.1	13823.1	12543.4	11370.1	10820.1	10809.1
64°	11901.8	11927.4	12484.8	13500.4	14677.4	15443.7	14120.1	12543.4	11432.5	10754.1	10878.8
65°	11656.1	11762.4	12301.4	13302.4	14519.7	15495.0	14017.4	12371.1	11175.8	10647.8	10706.5
67.5°	10541.5	10537.8	11036.5	12030.1	13720.4	14912.1	13144.8	11406.8	10541.5	9969.5	10039.1
70°	7996.8	8125.2	8601.8	9822.8	11872.4	13148.4	11494.8	9694.5	8616.5	8158.2	8132.5
72.5°	4784.9	4953.6	5562.2	7050.9	9221.5	10772.5	9122.5	7171.9	5873.9	5147.9	5166.2
75°	2181.6	2306.3	2724.3	3937.9	6145.2	7875.9	6181.9	4146.9	2973.6	2511.6	2445.6
77.5°	612.3	689.3	920.3	1807.6	3373.3	4722.6	3468.6	1998.3	1298.0	1078.0	1056.0
80°	275.0	289.7	326.3	440.0	1070.6	2082.6	1433.6	733.3	487.7	403.3	385.0
82.5°	150.3	161.3	212.7	227.3	304.3	553.7	473.0	344.7	293.3	234.7	227.3
85°	84.3	88.0	121.0	121.0	146.7	161.3	172.3	183.3	179.7	132.0	128.3
87.5°	25.7	29.3	36.7	36.7	36.7	36.7	58.7	80.7	88.0	62.3	62.3
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)