

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: P479900

Luminaire Tested: **IFLD-L-SA7D-830-U-5WQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479900  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-830-U-5WQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5WQ distribution lens  
Light Source: (112) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

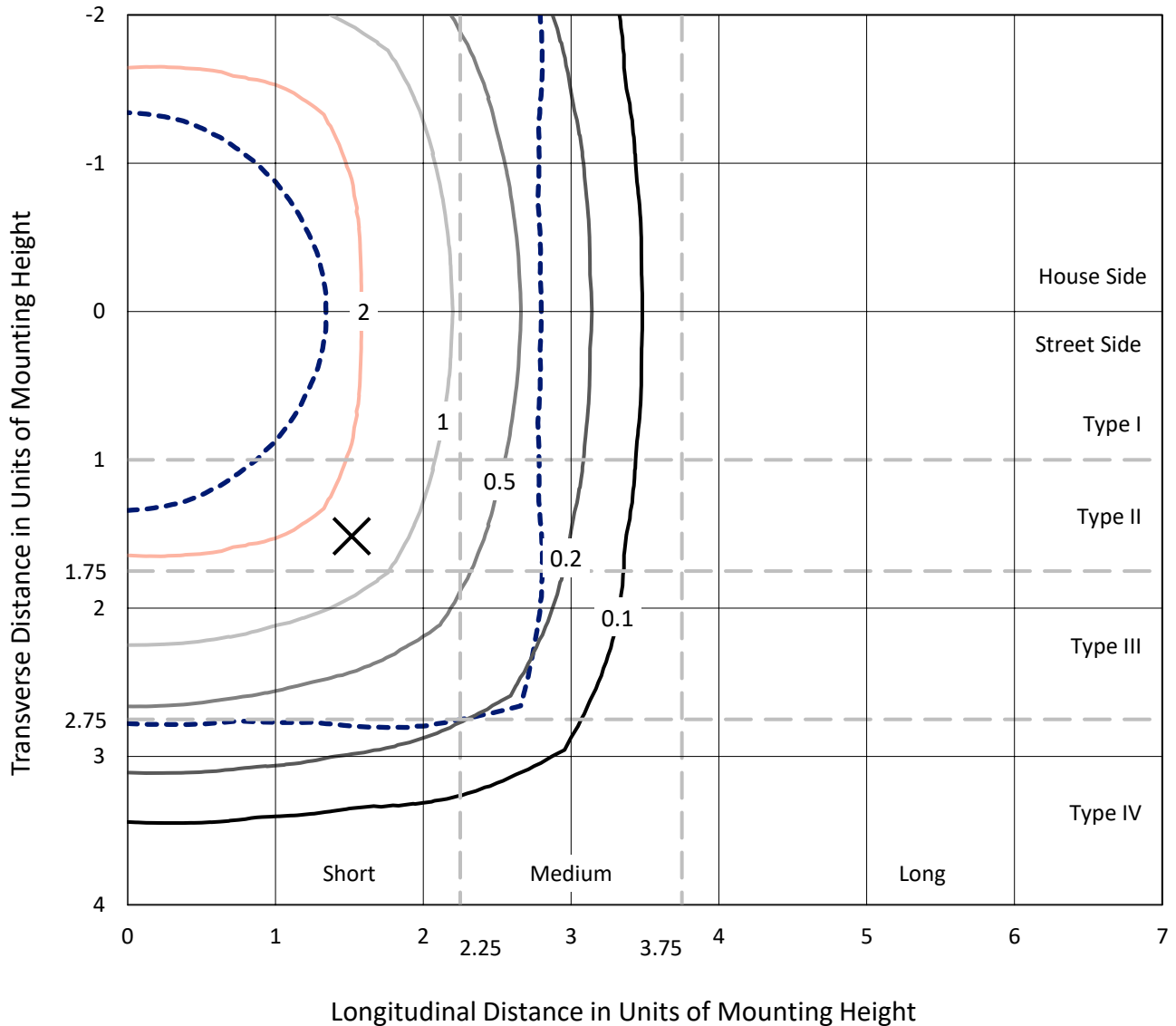
Lumens per Lamp: N/A  
Luminaire Lumens: 39775 lumens  
Efficiency: N/A  
Efficacy: 94.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

Input Watts (W): 422.6  
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

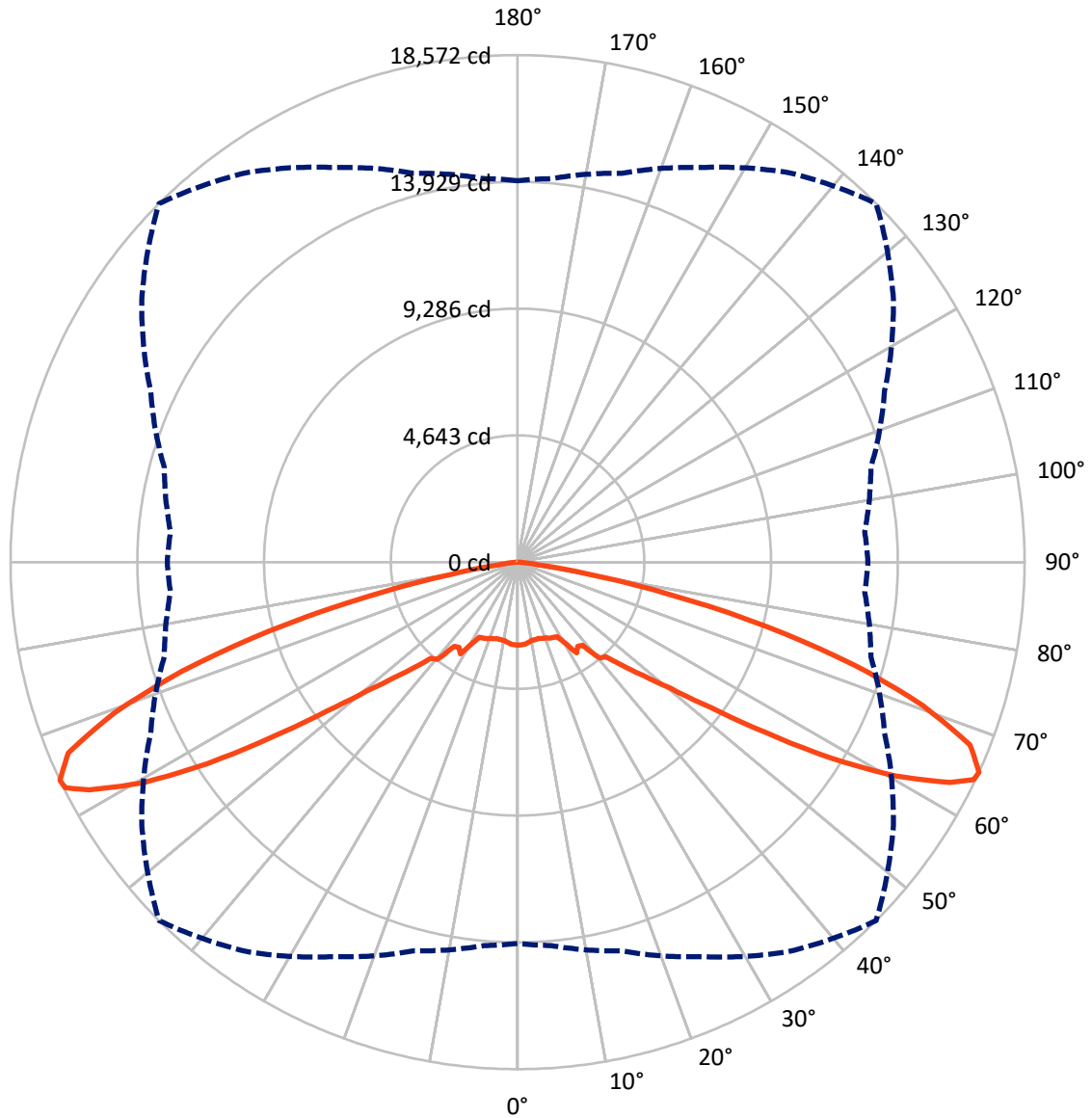
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.4 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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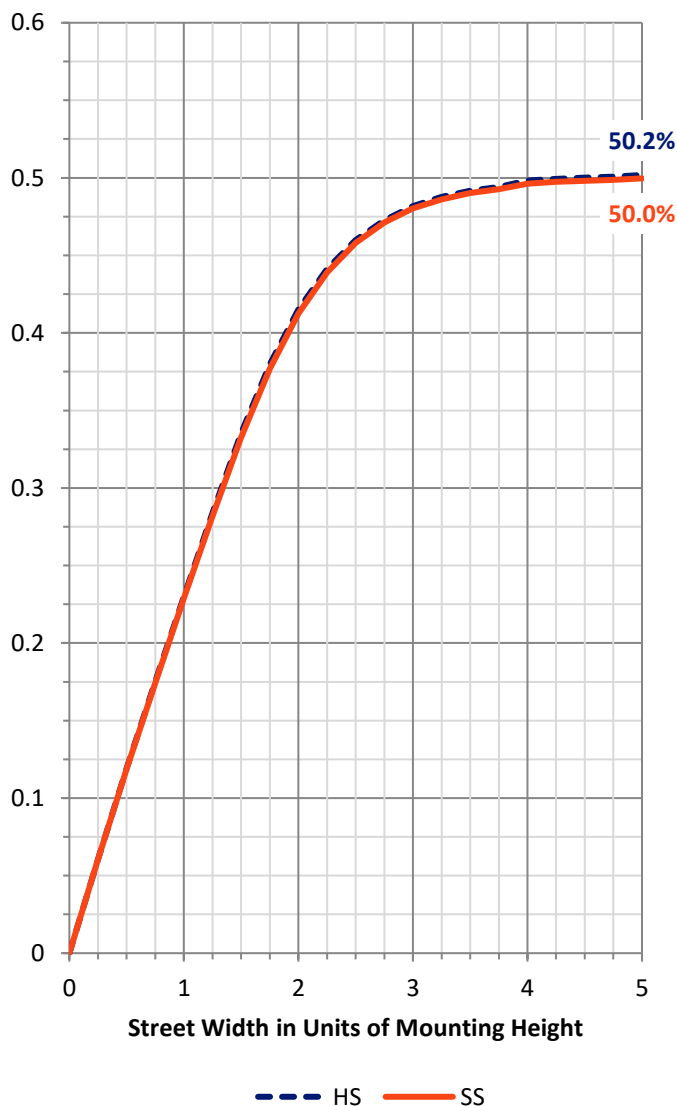
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	19887.5	0.0	19887.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	19887.5	0.0	19887.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	39775.0	0.0	39775.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	285.4	0.7
10°-20°	838.3	2.1
20°-30°	1451.0	3.6
30°-40°	2412.8	6.1
40°-50°	4353.0	10.9
50°-60°	9697.1	24.4
60°-70°	14451.8	36.3
70°-80°	5989.0	15.1
80°-90°	296.6	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°	39775.0	100.0
0°-180°	39775.0	100.0

**Coefficient of Utilization**



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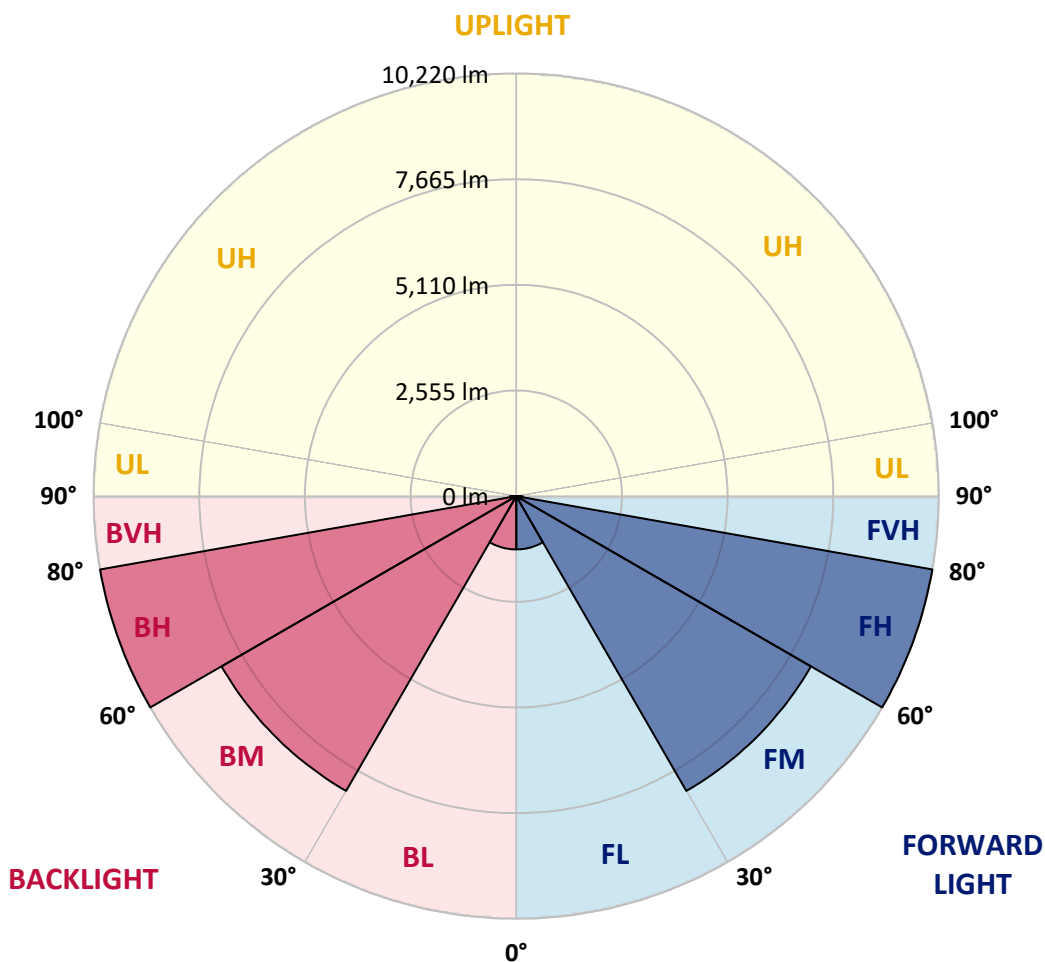
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1287.4	3.2			
FM (30°-60°)	8231.4	20.7			
FH (60°-80°)	10220.4	25.7			G4/12000
FVH (80°-90°)	148.3	0.4			G2/225
BL (0°-30°)	1287.4	3.2	B3/2500		
BM (30°-60°)	8231.4	20.7	B4/8500		
BH (60°-80°)	10220.4	25.7	B5		G4/12000
BVH (80°-90°)	148.3	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°	3041.0	3041.0	3041.0	3041.0	3041.0	3041.0	3041.0	3041.0	3041.0	3041.0	3041.0
2.5°	3005.9	3014.7	3010.3	3010.3	3023.5	3032.3	3036.6	3080.6	3063.0	3076.2	3063.0
5°	3014.7	3014.7	3023.5	3014.7	3023.5	3014.7	3023.5	3010.3	3023.5	3032.3	3045.4
7.5°	2997.1	2988.3	2975.1	2975.1	2970.7	2961.9	2948.8	2983.9	2966.3	2979.5	3001.5
10°	3001.5	2988.3	2944.4	2953.2	2913.6	2913.6	2922.4	2922.4	2961.9	3005.9	3019.1
12.5°	3001.5	2975.1	2961.9	2904.8	2904.8	2909.2	2931.2	2940.0	2966.3	2983.9	3027.9
15°	3001.5	2988.3	2966.3	2891.6	2909.2	2900.4	2922.4	2922.4	2979.5	3010.3	3032.3
17.5°	3019.1	3027.9	2988.3	2918.0	2922.4	2940.0	2926.8	2940.0	3010.3	3032.3	3063.0
20°	3023.5	2988.3	2975.1	2931.2	2970.7	2961.9	2957.5	2983.9	3005.9	3045.4	3080.6
22.5°	3014.7	3027.9	2975.1	2970.7	3005.9	3023.5	3032.3	3001.5	3027.9	3054.2	3085.0
25°	3089.4	3041.0	3027.9	3019.1	3036.6	3054.2	3045.4	3071.8	3071.8	3102.6	3142.1
27.5°	3291.5	3295.9	3269.6	3164.1	3128.9	3089.4	3107.0	3177.3	3260.8	3326.7	3339.9
30°	3383.8	3401.4	3471.7	3454.1	3440.9	3454.1	3449.7	3467.3	3476.1	3480.5	3467.3
32.5°	3467.3	3458.5	3427.8	3506.9	3766.1	3963.9	3774.9	3515.7	3458.5	3440.9	3458.5
35°	3770.5	3770.5	3704.6	3603.5	3739.8	3788.1	3700.2	3577.2	3647.5	3792.5	3801.3
37.5°	4161.7	4104.5	4130.9	4117.7	3968.3	3862.8	4016.6	4095.7	4108.9	4104.5	4148.5
40°	4394.6	4355.0	4315.5	4385.8	4522.0	4618.7	4482.5	4293.5	4341.8	4438.5	4399.0
42.5°	4926.3	4825.2	4834.0	4763.7	4759.3	4728.6	4697.8	4711.0	4781.3	4891.2	4908.7
45°	5471.2	5519.6	5488.8	5357.0	5418.5	5418.5	5330.6	5396.5	5431.7	5559.1	5576.7
47.5°	6323.8	6301.8	6315.0	6196.3	6191.9	6222.7	6191.9	6196.3	6306.2	6297.4	6249.1
50°	7321.4	7382.9	7400.5	7343.3	7273.0	7259.8	7211.5	7273.0	7338.9	7343.3	7303.8
52.5°	8701.2	8767.2	8767.2	8784.7	8872.6	8828.7	8819.9	8824.3	8696.9	8609.0	8652.9
55°	10441.5	10463.5	10538.2	10692.0	10960.1	10995.2	10828.2	10753.5	10520.6	10380.0	10489.8
57.5°	12159.8	12247.7	12454.2	12854.1	13183.7	13544.1	13060.7	12568.5	12111.4	11887.3	11926.9
60°	13588.0	13715.5	14111.0	14669.1	15583.1	15912.7	15095.3	14251.6	13324.3	12638.8	12915.6
62.5°	14260.4	14458.1	14792.1	15921.5	17292.6	17767.2	16567.5	15033.8	13627.6	12968.4	12955.2
64°	14264.8	14295.5	14963.5	16180.8	17591.5	18509.9	16923.5	15033.8	13702.3	12889.3	13038.7
65°	13970.3	14097.8	14743.8	15943.5	17402.5	18571.5	16800.4	14827.3	13394.6	12761.8	12832.1
67.5°	12634.4	12630.0	13227.7	14418.6	16444.5	17872.7	15754.5	13671.5	12634.4	11948.8	12032.3
70°	9584.6	9738.4	10309.7	11773.1	14229.6	15758.9	13777.0	11619.2	10327.2	9777.9	9747.2
72.5°	5734.9	5937.1	6666.6	8450.8	11052.3	12911.2	10933.7	8595.8	7040.1	6170.0	6191.9
75°	2614.8	2764.2	3265.2	4719.8	7365.3	9439.5	7409.2	4970.3	3564.0	3010.3	2931.2
77.5°	733.9	826.2	1103.0	2166.5	4043.0	5660.2	4157.3	2395.0	1555.7	1292.0	1265.6
80°	329.6	347.2	391.1	527.3	1283.2	2496.1	1718.3	878.9	584.5	483.4	461.4
82.5°	180.2	193.4	254.9	272.5	364.7	663.6	566.9	413.1	351.6	281.3	272.5
85°	101.1	105.5	145.0	145.0	175.8	193.4	206.5	219.7	215.3	158.2	153.8
87.5°	30.8	35.2	43.9	43.9	43.9	43.9	70.3	96.7	105.5	74.7	74.7
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)