

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: P479904

Luminaire Tested: **IFLD-L-SA8C-830-U-5WQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479904  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-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**

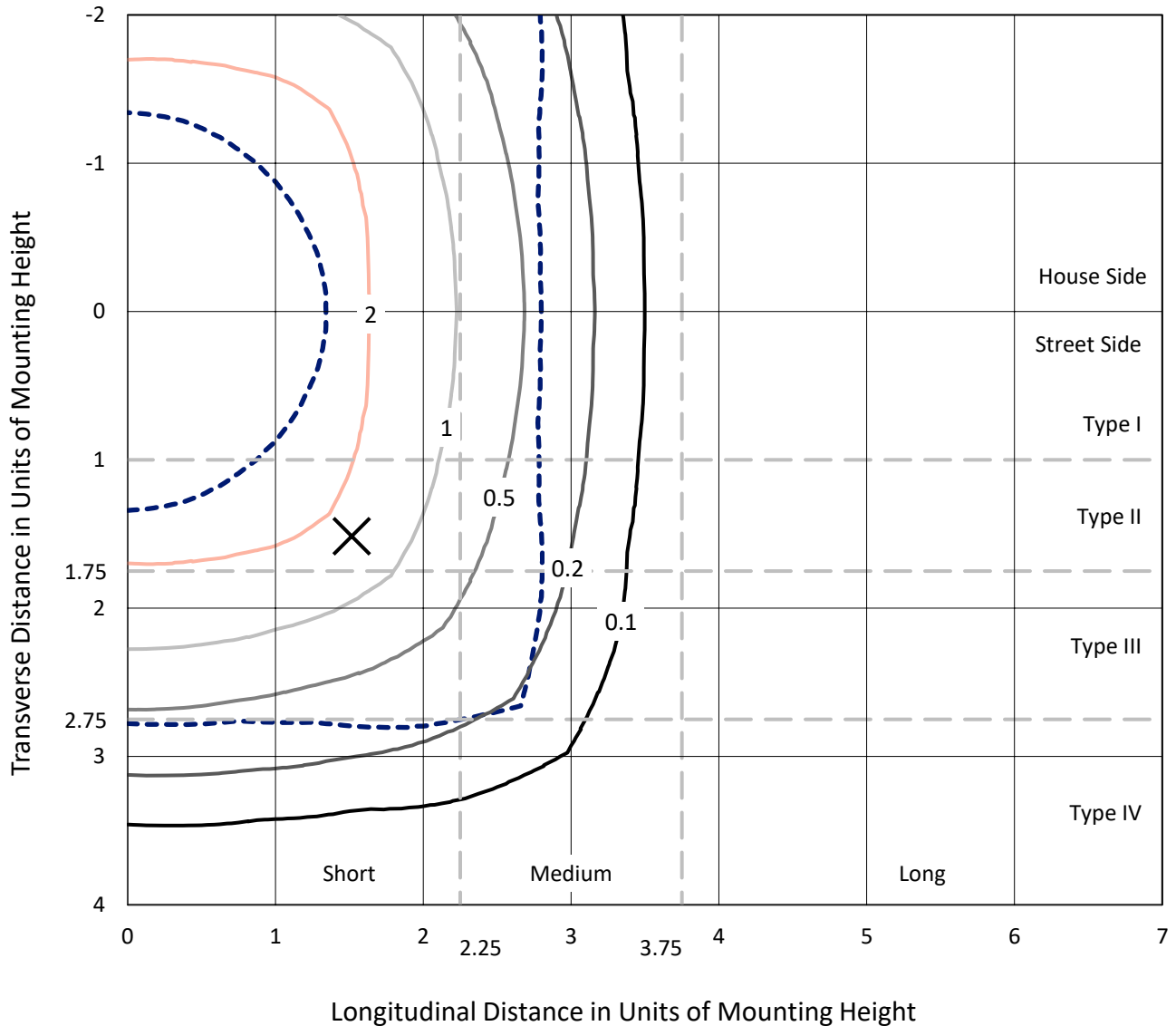
Lumens per Lamp: N/A  
Luminaire Lumens: 41312 lumens  
Efficiency: N/A  
Efficacy: 98.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

Input Watts (W): 420.3  
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

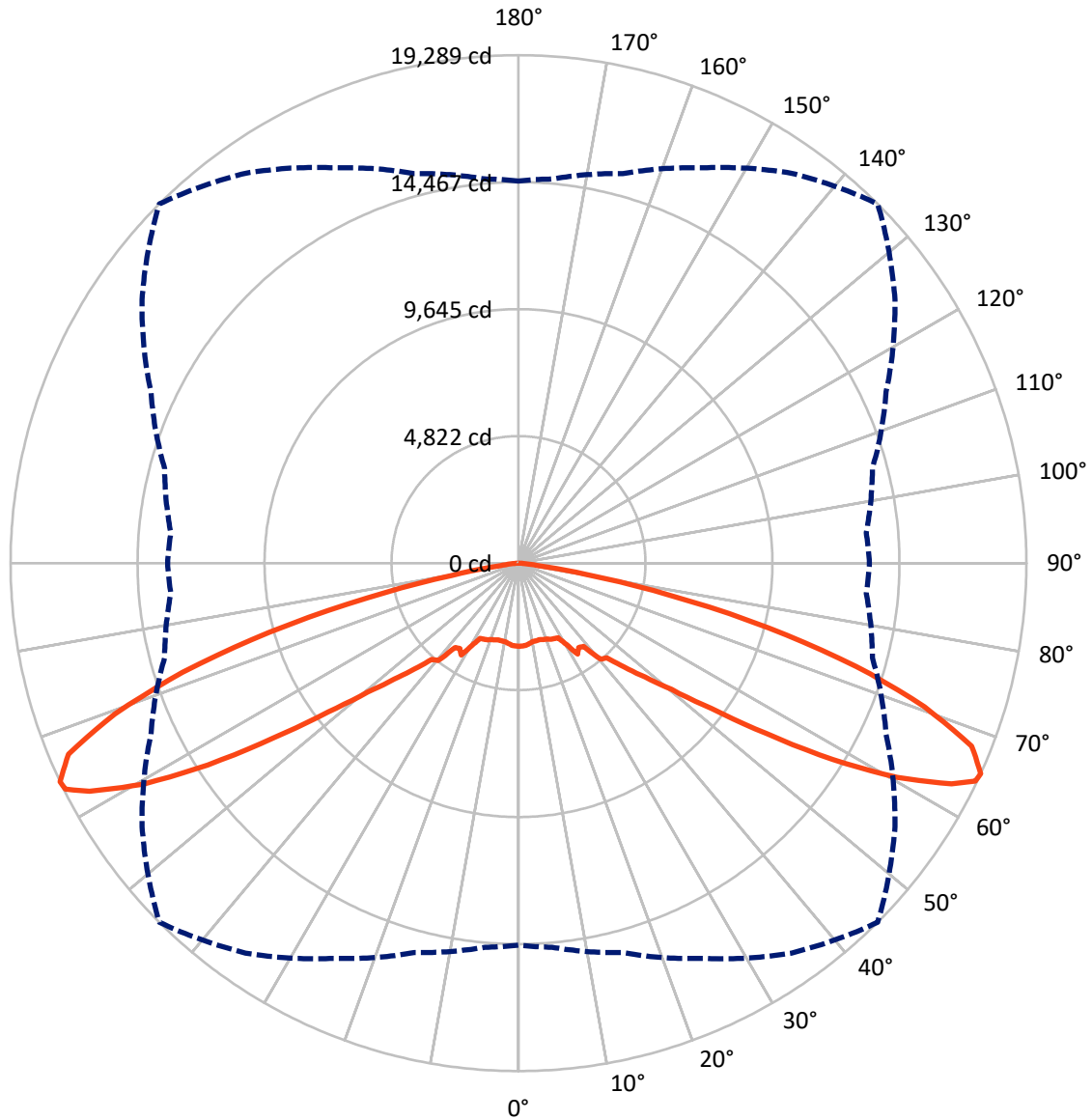
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.5 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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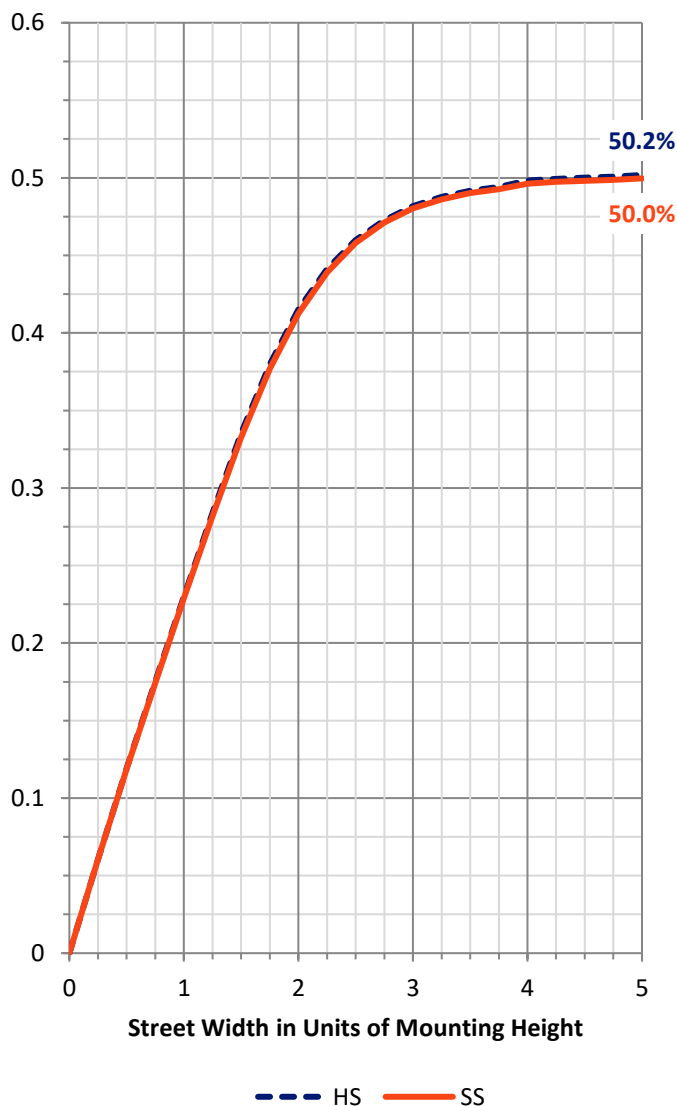
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	20656.0	0.0	20656.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	20656.0	0.0	20656.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	41312.0	0.0	41312.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	296.4	0.7
10°-20°	870.7	2.1
20°-30°	1507.1	3.6
30°-40°	2506.0	6.1
40°-50°	4521.2	10.9
50°-60°	10071.8	24.4
60°-70°	15010.2	36.3
70°-80°	6220.4	15.1
80°-90°	308.1	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°	41312.0	100.0
0°-180°	41312.0	100.0

**Coefficient of Utilization**



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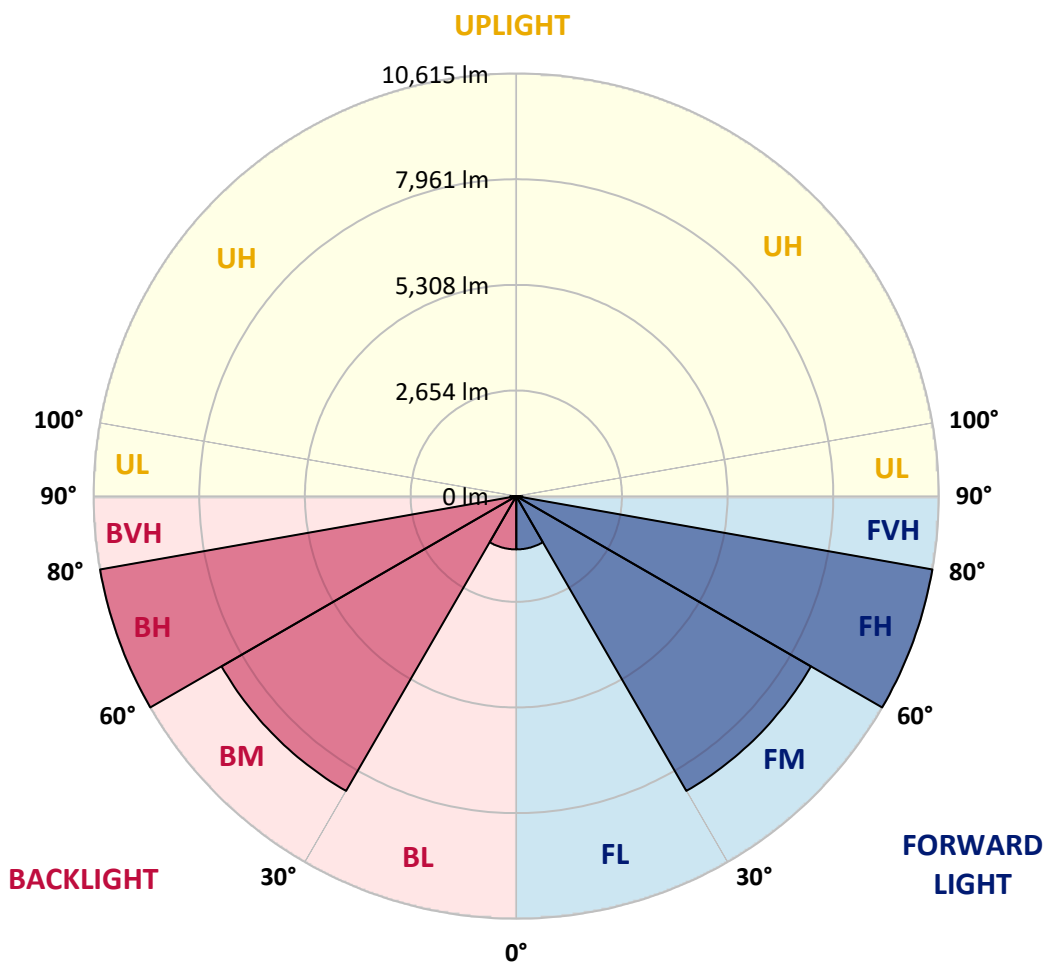
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1337.1	3.2			
FM (30°-60°)	8549.5	20.7			
FH (60°-80°)	10615.3	25.7			G4/12000
FVH (80°-90°)	154.0	0.4			G2/225
BL (0°-30°)	1337.1	3.2	B3/2500		
BM (30°-60°)	8549.5	20.7	B5		
BH (60°-80°)	10615.3	25.7	B5		G4/12000
BVH (80°-90°)	154.0	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°	3158.6	3158.6	3158.6	3158.6	3158.6	3158.6	3158.6	3158.6	3158.6	3158.6	3158.6
2.5°	3122.0	3131.2	3126.6	3126.6	3140.3	3149.4	3154.0	3199.6	3181.4	3195.1	3181.4
5°	3131.2	3131.2	3140.3	3131.2	3140.3	3131.2	3140.3	3126.6	3140.3	3149.4	3163.1
7.5°	3112.9	3103.8	3090.1	3090.1	3085.5	3076.4	3062.7	3099.2	3081.0	3094.7	3117.5
10°	3117.5	3103.8	3058.1	3067.3	3026.2	3026.2	3035.3	3035.3	3076.4	3122.0	3135.7
12.5°	3117.5	3090.1	3076.4	3017.1	3017.1	3021.6	3044.4	3053.6	3081.0	3099.2	3144.9
15°	3117.5	3103.8	3081.0	3003.4	3021.6	3012.5	3035.3	3035.3	3094.7	3126.6	3149.4
17.5°	3135.7	3144.9	3103.8	3030.8	3035.3	3053.6	3039.9	3053.6	3126.6	3149.4	3181.4
20°	3140.3	3103.8	3090.1	3044.4	3085.5	3076.4	3071.8	3099.2	3122.0	3163.1	3199.6
22.5°	3131.2	3144.9	3090.1	3085.5	3122.0	3140.3	3149.4	3117.5	3144.9	3172.2	3204.2
25°	3208.8	3158.6	3144.9	3135.7	3154.0	3172.2	3163.1	3190.5	3190.5	3222.5	3263.5
27.5°	3418.7	3423.3	3395.9	3286.4	3249.8	3208.8	3227.0	3300.0	3386.8	3455.2	3468.9
30°	3514.6	3532.8	3605.9	3587.6	3573.9	3587.6	3583.0	3601.3	3610.4	3615.0	3601.3
32.5°	3601.3	3592.2	3560.2	3642.4	3911.7	4117.1	3920.8	3651.5	3592.2	3573.9	3592.2
35°	3916.2	3916.2	3847.8	3742.8	3884.3	3934.5	3843.2	3715.4	3788.4	3939.1	3948.2
37.5°	4322.5	4263.1	4290.5	4276.8	4121.6	4012.1	4171.8	4254.0	4267.7	4263.1	4308.8
40°	4564.4	4523.3	4482.2	4555.3	4696.8	4797.2	4655.7	4459.4	4509.6	4610.0	4568.9
42.5°	5116.7	5011.7	5020.8	4947.8	4943.2	4911.3	4879.3	4893.0	4966.0	5080.2	5098.4
45°	5682.7	5732.9	5700.9	5564.0	5627.9	5627.9	5536.6	5605.1	5641.6	5773.9	5792.2
47.5°	6568.1	6545.3	6559.0	6435.8	6431.2	6463.2	6431.2	6435.8	6549.9	6540.8	6490.6
50°	7604.3	7668.2	7686.4	7627.1	7554.1	7540.4	7490.2	7554.1	7622.5	7627.1	7586.0
52.5°	9037.5	9105.9	9105.9	9124.2	9215.5	9169.8	9160.7	9165.3	9032.9	8941.6	8987.3
55°	10845.0	10867.8	10945.4	11105.1	11383.6	11420.1	11246.6	11169.0	10927.1	10781.1	10895.2
57.5°	12629.6	12720.9	12935.5	13350.8	13693.2	14067.4	13565.3	13054.1	12579.4	12346.7	12387.7
60°	14113.1	14245.4	14656.2	15235.9	16185.3	16527.6	15678.7	14802.3	13839.2	13127.2	13414.7
62.5°	14811.4	15016.8	15363.7	16536.8	17960.8	18453.8	17207.7	15614.8	14154.2	13469.5	13455.8
64°	14816.0	14847.9	15541.7	16806.1	18271.2	19225.2	17577.4	15614.8	14231.7	13387.3	13542.5
65°	14510.2	14642.5	15313.5	16559.6	18075.0	19289.1	17449.6	15400.2	13912.2	13255.0	13328.0
67.5°	13122.6	13118.0	13738.8	14975.7	17079.9	18563.3	16363.3	14199.8	13122.6	12410.6	12497.3
70°	9954.9	10114.7	10708.0	12228.0	14779.5	16367.9	14309.3	12068.2	10726.3	10155.8	10123.8
72.5°	5956.5	6166.5	6924.2	8777.3	11479.4	13410.2	11356.2	8927.9	7312.1	6408.4	6431.2
75°	2715.8	2871.0	3391.3	4902.1	7649.9	9804.3	7695.6	5162.3	3701.7	3126.6	3044.4
77.5°	762.3	858.1	1145.7	2250.2	4199.2	5878.9	4317.9	2487.6	1615.8	1341.9	1314.5
80°	342.3	360.6	406.2	547.7	1332.8	2592.6	1784.7	912.9	607.1	502.1	479.3
82.5°	187.1	200.8	264.7	283.0	378.8	689.2	588.8	429.1	365.2	292.1	283.0
85°	105.0	109.5	150.6	150.6	182.6	200.8	214.5	228.2	223.7	164.3	159.8
87.5°	32.0	36.5	45.6	45.6	45.6	45.6	73.0	100.4	109.5	77.6	77.6
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)