

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: P479905

Luminaire Tested: **IFLD-L-SA8D-830-U-5WQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479905  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8D-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**

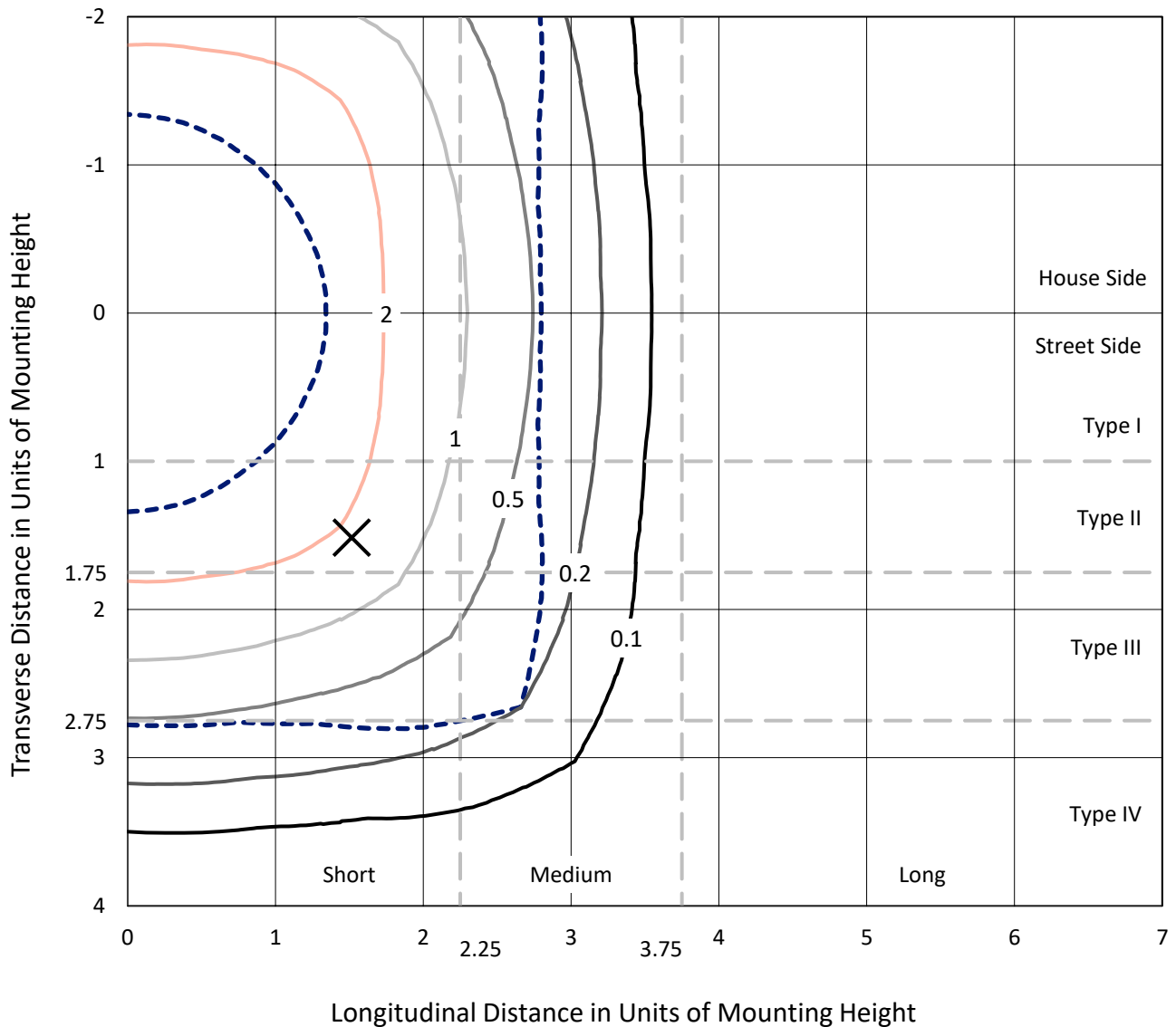
Lumens per Lamp: N/A  
Luminaire Lumens: 45457.3 lumens  
Efficiency: N/A  
Efficacy: 93.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

Input Watts (W): 488.3  
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

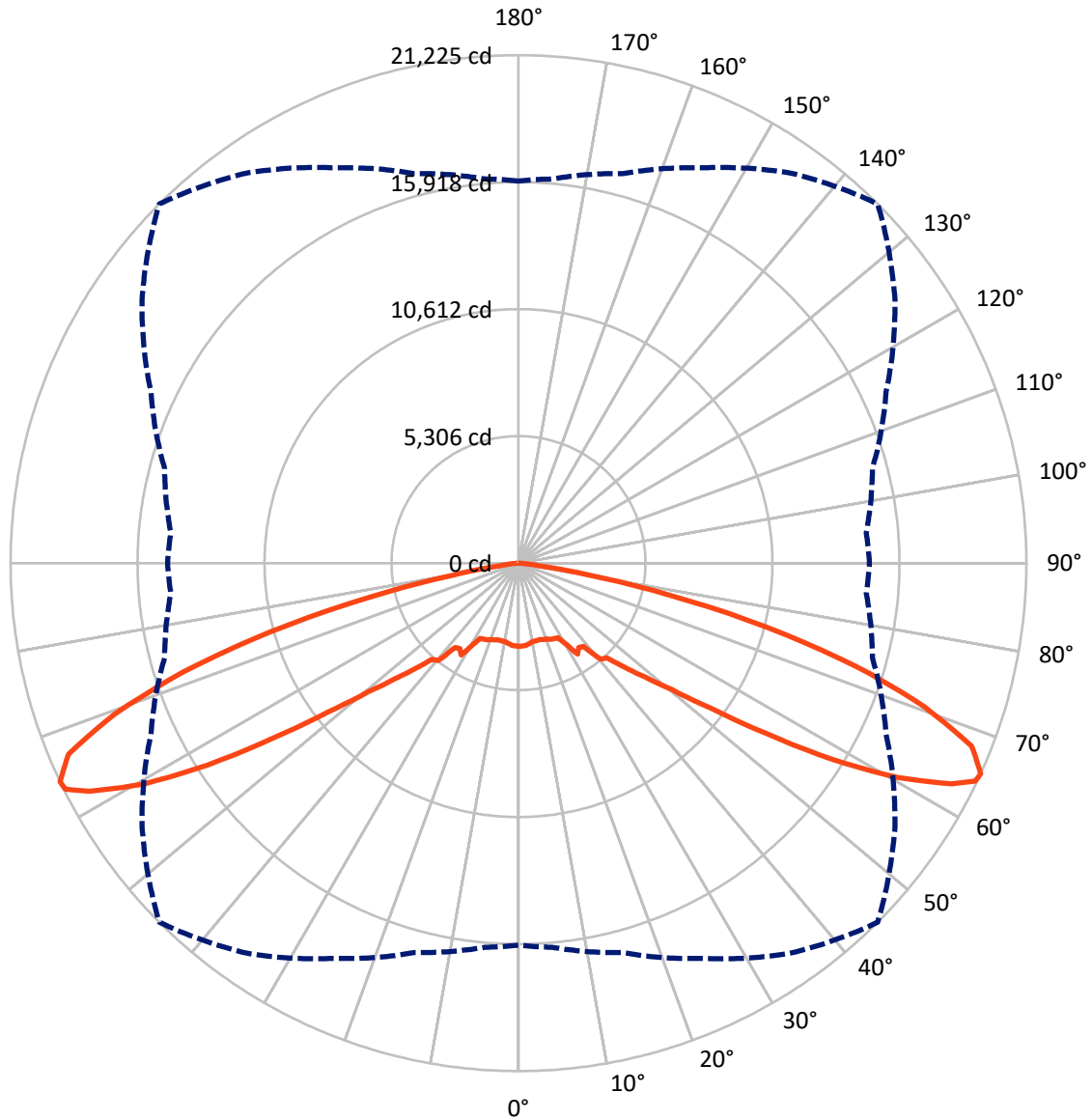
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.9 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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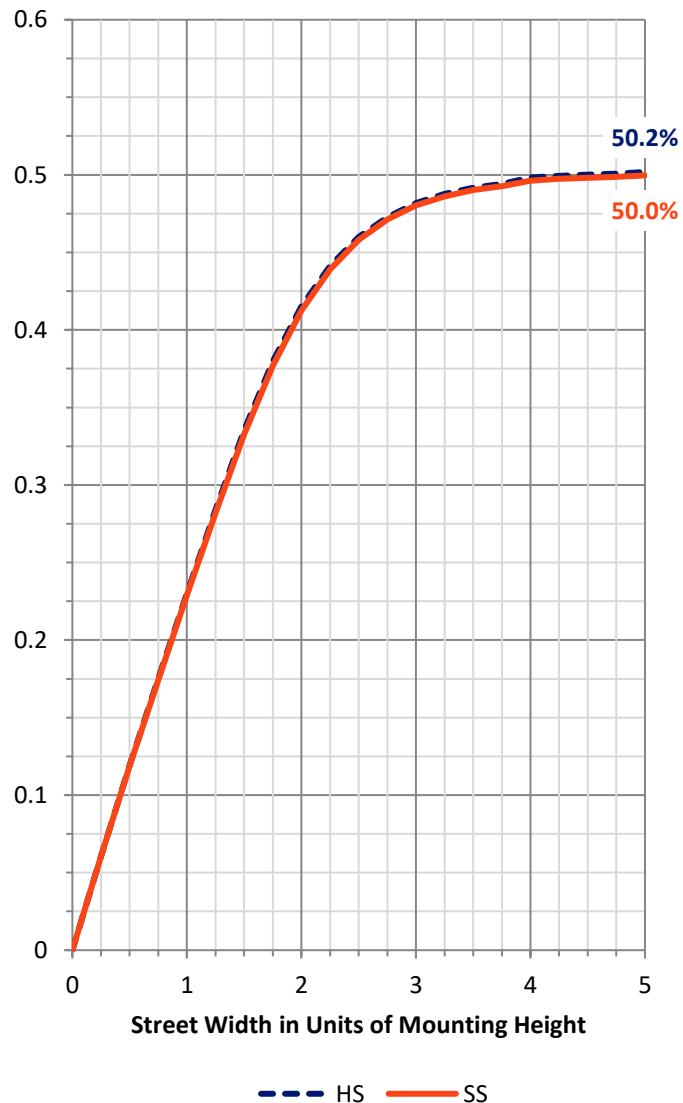
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	22728.6	0.0	22728.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	22728.6	0.0	22728.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	45457.3	0.0	45457.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	326.2	0.7
10°-20°	958.1	2.1
20°-30°	1658.3	3.6
30°-40°	2757.5	6.1
40°-50°	4974.9	10.9
50°-60°	11082.4	24.4
60°-70°	16516.4	36.3
70°-80°	6844.6	15.1
80°-90°	339.0	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°	45457.3	100.0
0°-180°	45457.3	100.0

**Coefficient of Utilization**



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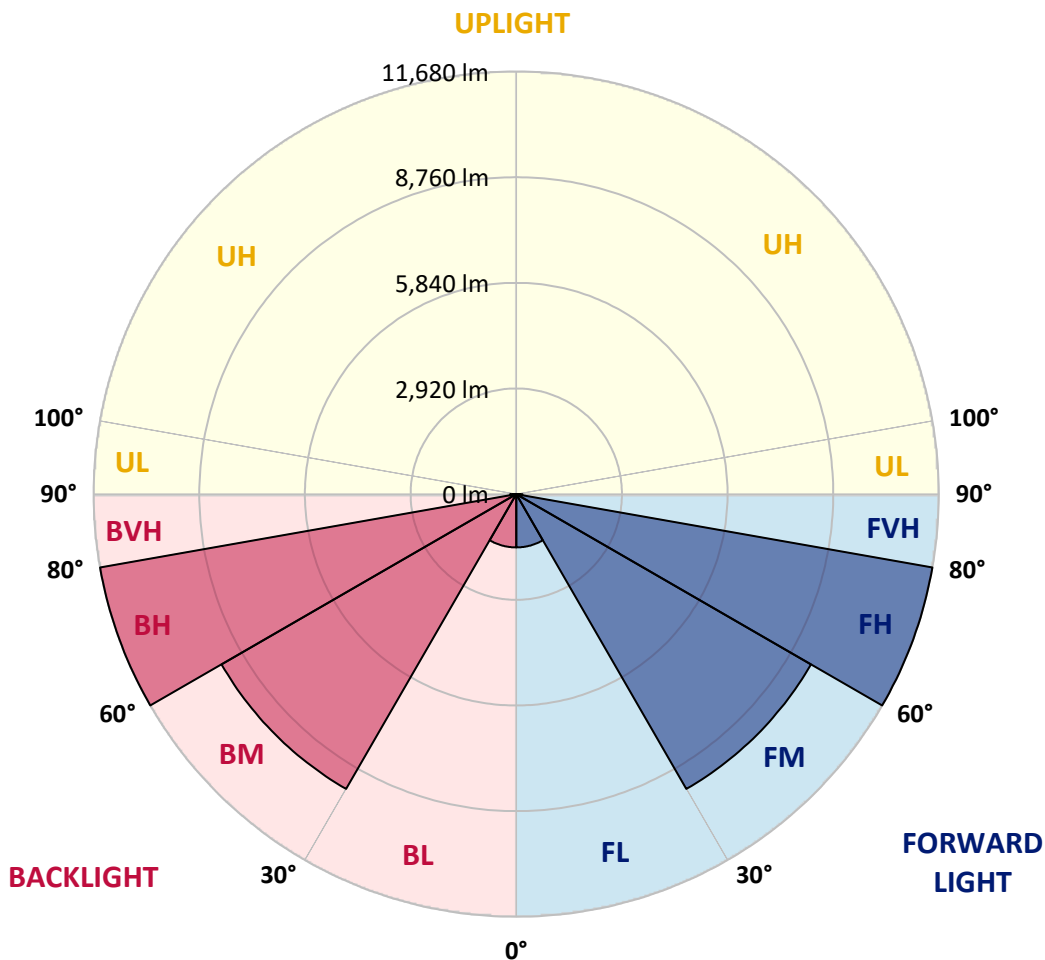
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1471.3	3.2			
FM (30°-60°)	9407.4	20.7			
FH (60°-80°)	11680.5	25.7			G4/12000
FVH (80°-90°)	169.5	0.4			G2/225
BL (0°-30°)	1471.3	3.2	B3/2500		
BM (30°-60°)	9407.4	20.7	B5		
BH (60°-80°)	11680.5	25.7	B5		G4/12000
BVH (80°-90°)	169.5	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°	3475.5	3475.5	3475.5	3475.5	3475.5	3475.5	3475.5	3475.5	3475.5	3475.5	3475.5
2.5°	3435.3	3445.4	3440.3	3440.3	3455.4	3465.4	3470.5	3520.7	3500.6	3515.7	3500.6
5°	3445.4	3445.4	3455.4	3445.4	3455.4	3445.4	3455.4	3440.3	3455.4	3465.4	3480.5
7.5°	3425.3	3415.2	3400.2	3400.2	3395.1	3385.1	3370.0	3410.2	3390.1	3405.2	3430.3
10°	3430.3	3415.2	3365.0	3375.0	3329.8	3329.8	3339.9	3339.9	3385.1	3435.3	3450.4
12.5°	3430.3	3400.2	3385.1	3319.8	3319.8	3324.8	3349.9	3360.0	3390.1	3410.2	3460.4
15°	3430.3	3415.2	3390.1	3304.7	3324.8	3314.8	3339.9	3339.9	3405.2	3440.3	3465.4
17.5°	3450.4	3460.4	3415.2	3334.9	3339.9	3360.0	3344.9	3360.0	3440.3	3465.4	3500.6
20°	3455.4	3415.2	3400.2	3349.9	3395.1	3385.1	3380.1	3410.2	3435.3	3480.5	3520.7
22.5°	3445.4	3460.4	3400.2	3395.1	3435.3	3455.4	3465.4	3430.3	3460.4	3490.6	3525.7
25°	3530.7	3475.5	3460.4	3450.4	3470.5	3490.6	3480.5	3510.6	3510.6	3545.8	3591.0
27.5°	3761.8	3766.8	3736.6	3616.1	3575.9	3530.7	3550.8	3631.2	3726.6	3801.9	3817.0
30°	3867.2	3887.3	3967.7	3947.6	3932.5	3947.6	3942.6	3962.7	3972.7	3977.7	3962.7
32.5°	3962.7	3952.6	3917.5	4007.9	4304.2	4530.2	4314.2	4017.9	3952.6	3932.5	3952.6
35°	4309.2	4309.2	4233.9	4118.4	4274.0	4329.3	4228.8	4088.2	4168.6	4334.3	4344.4
37.5°	4756.2	4690.9	4721.0	4706.0	4535.2	4414.7	4590.5	4680.9	4695.9	4690.9	4741.1
40°	5022.4	4977.2	4932.0	5012.3	5168.0	5278.5	5122.8	4906.9	4962.1	5072.6	5027.4
42.5°	5630.1	5514.6	5524.6	5444.3	5439.2	5404.1	5368.9	5384.0	5464.3	5589.9	5610.0
45°	6252.9	6308.1	6273.0	6122.3	6192.6	6192.6	6092.1	6167.5	6207.7	6353.3	6373.4
47.5°	7227.2	7202.1	7217.2	7081.6	7076.5	7111.7	7076.5	7081.6	7207.1	7197.1	7141.8
50°	8367.3	8437.6	8457.7	8392.4	8312.0	8297.0	8241.7	8312.0	8387.4	8392.4	8347.2
52.5°	9944.3	10019.6	10019.6	10039.7	10140.2	10090.0	10079.9	10084.9	9939.3	9838.8	9889.1
55°	11933.2	11958.3	12043.7	12219.4	12525.8	12566.0	12375.1	12289.8	12023.6	11862.9	11988.4
57.5°	13896.9	13997.4	14233.4	14690.5	15067.1	15479.0	14926.5	14364.0	13841.7	13585.5	13630.7
60°	15529.2	15674.8	16126.9	16764.7	17809.4	18186.0	17251.9	16287.6	15227.9	14444.4	14760.8
62.5°	16297.6	16523.6	16905.3	18196.1	19763.1	20305.5	18934.4	17181.6	15574.4	14821.0	14806.0
64°	16302.6	16337.8	17101.2	18492.4	20104.6	21154.3	19341.2	17181.6	15659.8	14730.6	14901.4
65°	15966.1	16111.8	16850.1	18221.2	19888.6	21224.6	19200.6	16945.5	15308.2	14585.0	14665.3
67.5°	14439.3	14434.3	15117.4	16478.4	18793.7	20426.0	18005.2	15624.6	14439.3	13655.8	13751.3
70°	10953.8	11129.6	11782.5	13455.0	16262.5	18010.2	15745.2	13279.2	11802.6	11174.8	11139.6
72.5°	6554.2	6785.2	7618.9	9658.0	12631.3	14755.7	12495.7	9823.8	8045.9	7051.4	7076.5
75°	2988.3	3159.1	3731.6	5394.0	8417.5	10788.1	8467.7	5680.3	4073.1	3440.3	3349.9
77.5°	838.7	944.2	1260.6	2476.0	4620.6	6468.8	4751.2	2737.2	1777.9	1476.6	1446.4
80°	376.7	396.8	447.0	602.7	1466.5	2852.7	1963.7	1004.5	668.0	552.5	527.3
82.5°	205.9	221.0	291.3	311.4	416.9	758.4	647.9	472.1	401.8	321.4	311.4
85°	115.5	120.5	165.7	165.7	200.9	221.0	236.1	251.1	246.1	180.8	175.8
87.5°	35.2	40.2	50.2	50.2	50.2	50.2	80.4	110.5	120.5	85.4	85.4
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)