

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: P479861

Luminaire Tested: **IFLD-L-SA7D-827-U-5WQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479861
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-827-U-5WQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5WQ distribution lens
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

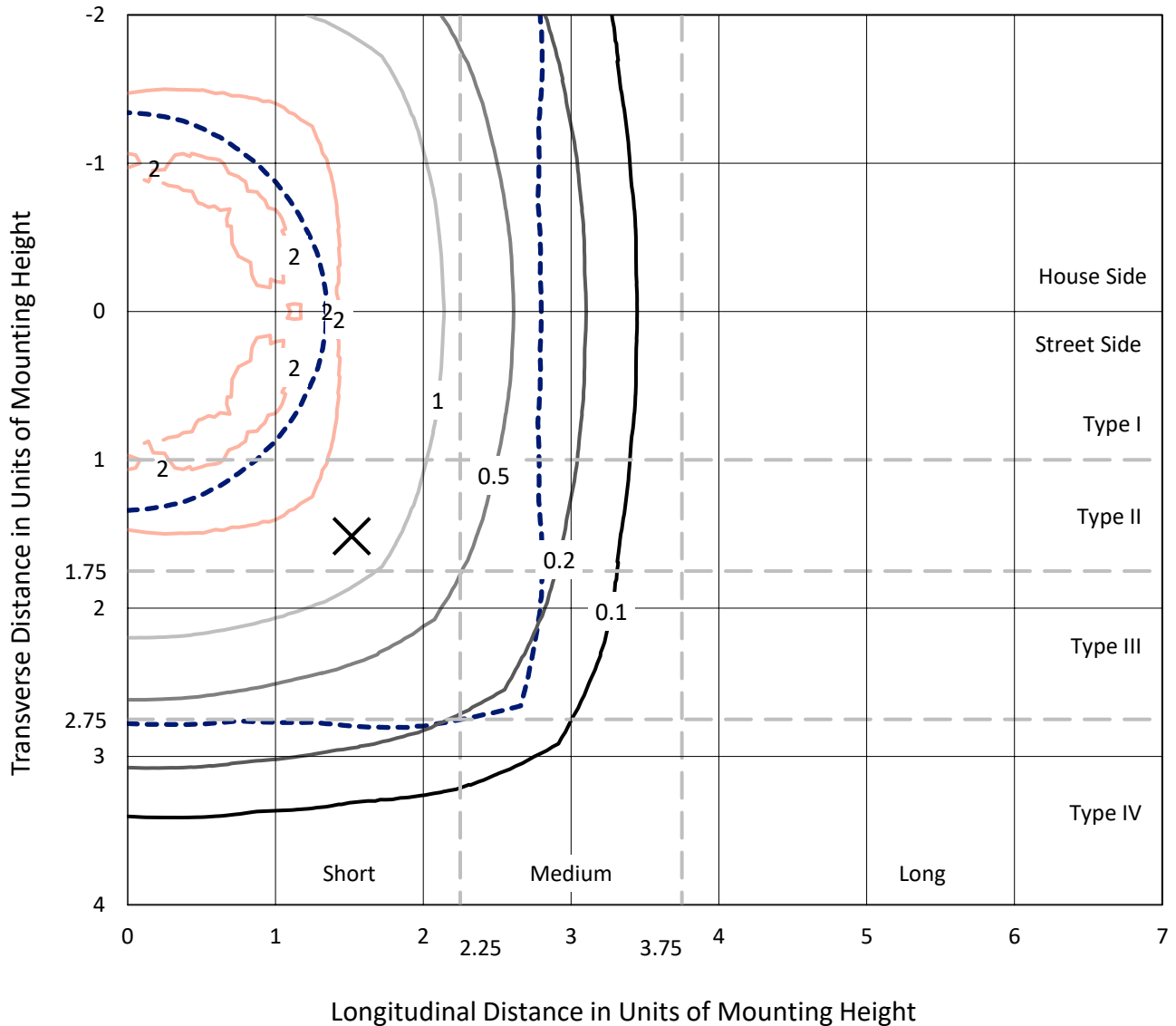
Lumens per Lamp: N/A
Luminaire Lumens: 36796.7 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

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

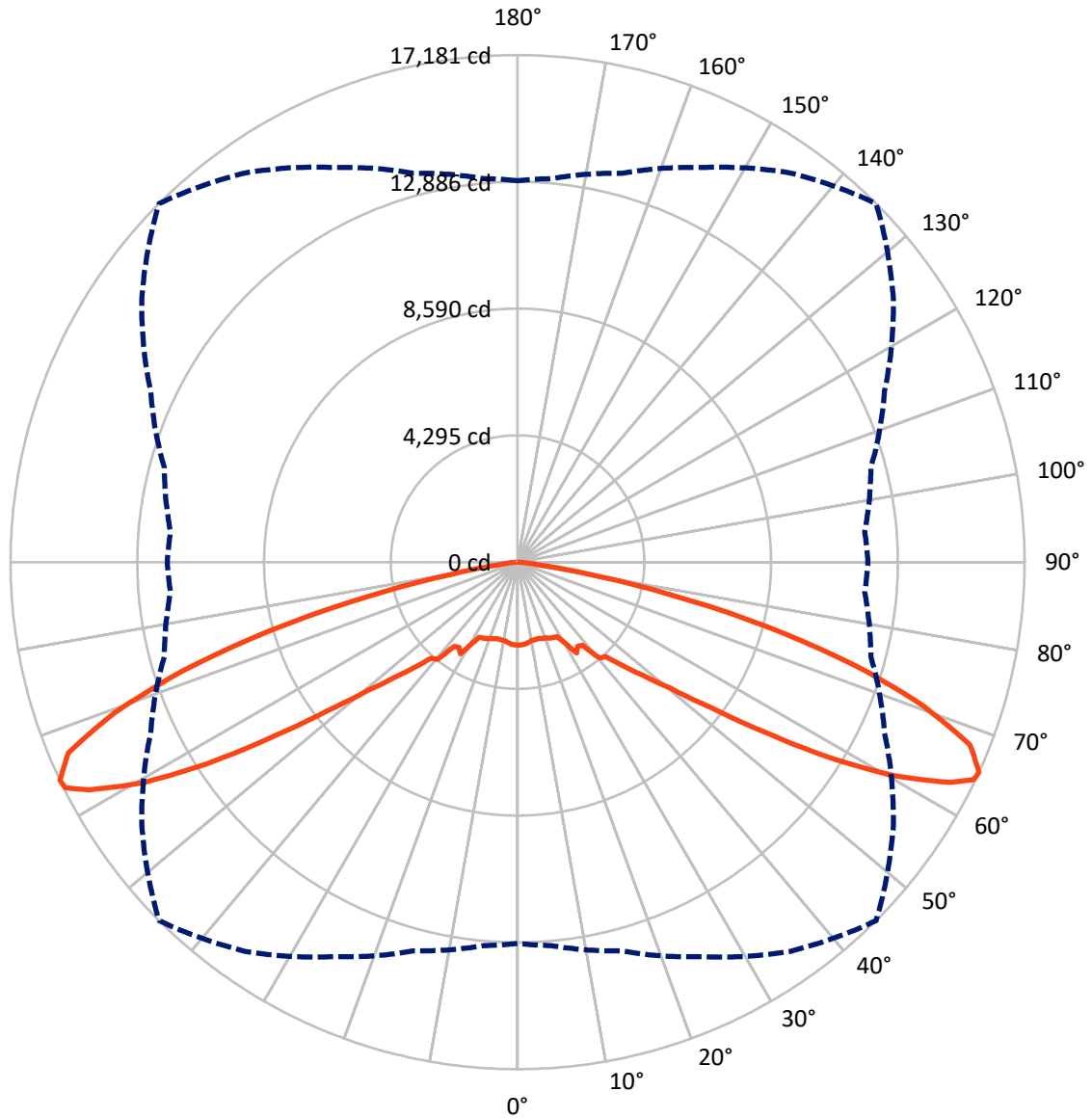
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.1 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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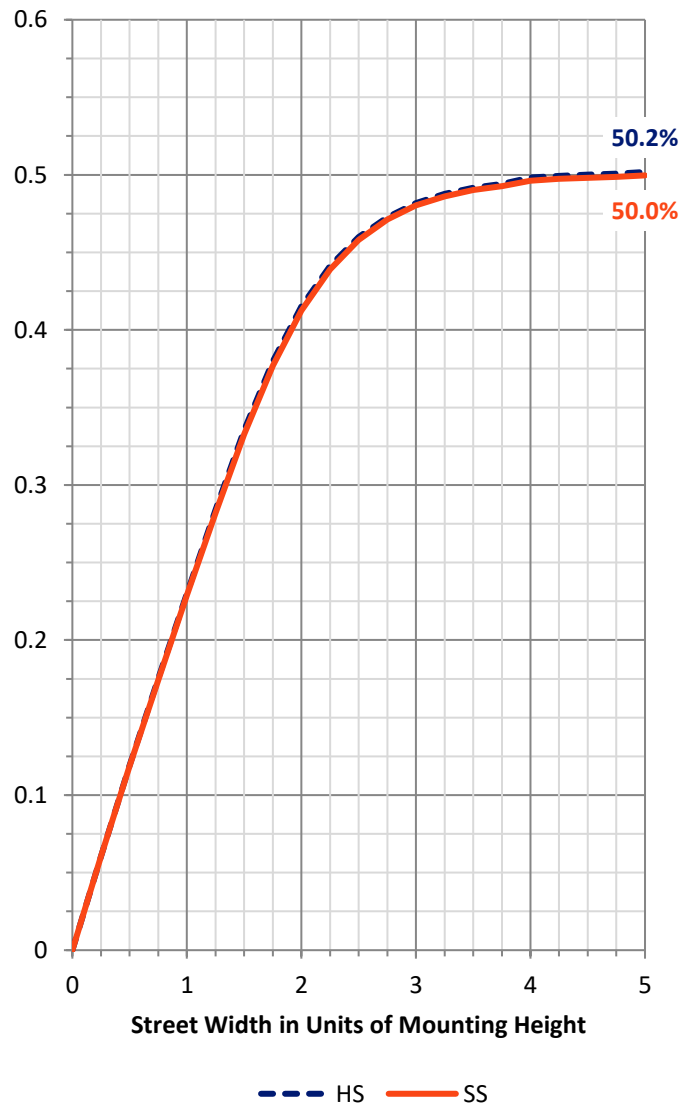
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18398.3	0.0	18398.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18398.3	0.0	18398.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	36796.7	0.0	36796.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.0	0.7
10°-20°	775.5	2.1
20°-30°	1342.4	3.6
30°-40°	2232.1	6.1
40°-50°	4027.1	10.9
50°-60°	8971.0	24.4
60°-70°	13369.6	36.3
70°-80°	5540.5	15.1
80°-90°	274.4	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°	36796.7	100.0
0°-180°	36796.7	100.0

Coefficient of Utilization



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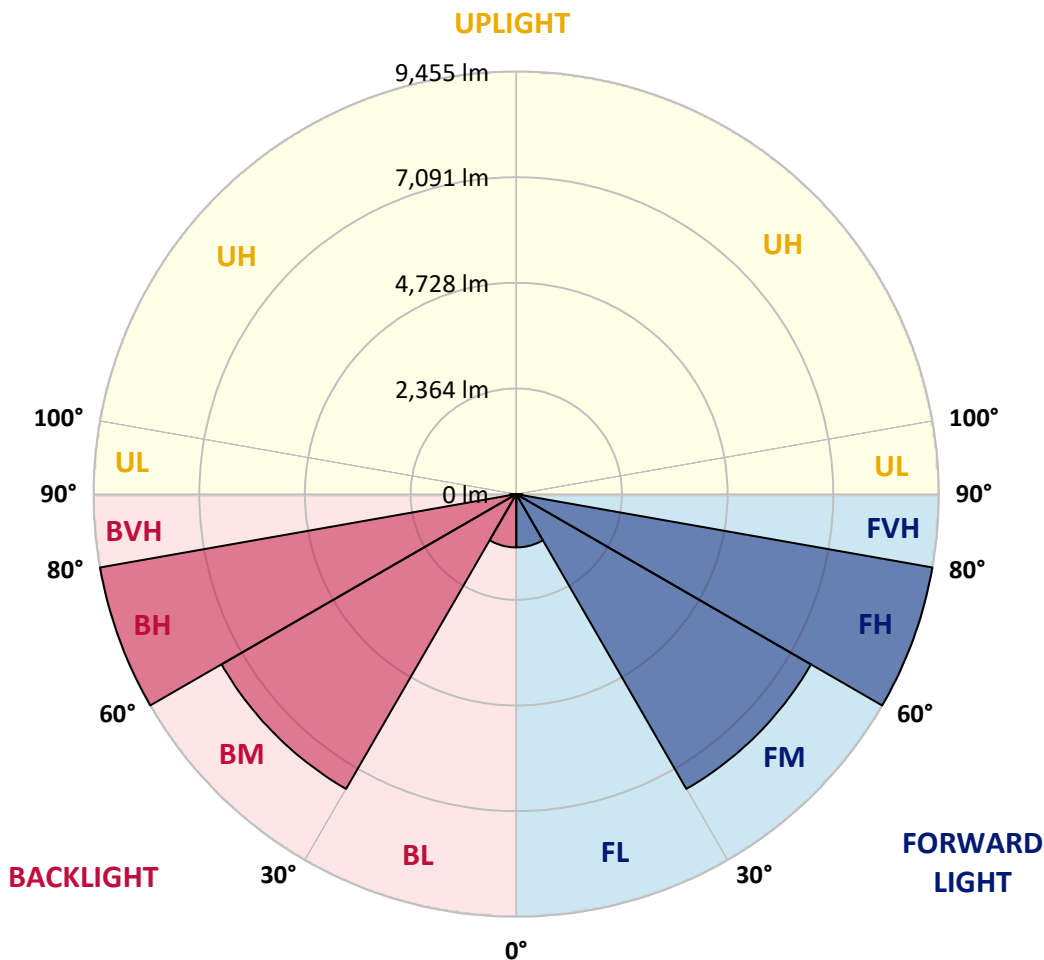
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1191.0	3.2			
FM (30°-60°)	7615.1	20.7			
FH (60°-80°)	9455.1	25.7			G4/12000
FVH (80°-90°)	137.2	0.4			G2/225
BL (0°-30°)	1191.0	3.2	B3/2500		
BM (30°-60°)	7615.1	20.7	B4/8500		
BH (60°-80°)	9455.1	25.7	B5		G4/12000
BVH (80°-90°)	137.2	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°	2813.3	2813.3	2813.3	2813.3	2813.3	2813.3	2813.3	2813.3	2813.3	2813.3	2813.3
2.5°	2780.8	2788.9	2784.9	2784.9	2797.1	2805.2	2809.3	2849.9	2833.7	2845.9	2833.7
5°	2788.9	2788.9	2797.1	2788.9	2797.1	2788.9	2797.1	2784.9	2797.1	2805.2	2817.4
7.5°	2772.7	2764.5	2752.3	2752.3	2748.3	2740.1	2728.0	2760.5	2744.2	2756.4	2776.7
10°	2776.7	2764.5	2723.9	2732.0	2695.4	2695.4	2703.6	2703.6	2740.1	2780.8	2793.0
12.5°	2776.7	2752.3	2740.1	2687.3	2687.3	2691.4	2711.7	2719.8	2744.2	2760.5	2801.1
15°	2776.7	2764.5	2744.2	2675.1	2691.4	2683.2	2703.6	2703.6	2756.4	2784.9	2805.2
17.5°	2793.0	2801.1	2764.5	2699.5	2703.6	2719.8	2707.6	2719.8	2784.9	2805.2	2833.7
20°	2797.1	2764.5	2752.3	2711.7	2748.3	2740.1	2736.1	2760.5	2780.8	2817.4	2849.9
22.5°	2788.9	2801.1	2752.3	2748.3	2780.8	2797.1	2805.2	2776.7	2801.1	2825.5	2854.0
25°	2858.0	2813.3	2801.1	2793.0	2809.3	2825.5	2817.4	2841.8	2841.8	2870.2	2906.8
27.5°	3045.1	3049.1	3024.7	2927.2	2894.6	2858.0	2874.3	2939.4	3016.6	3077.6	3089.8
30°	3130.4	3146.7	3211.7	3195.5	3183.3	3195.5	3191.4	3207.7	3215.8	3219.9	3207.7
32.5°	3207.7	3199.6	3171.1	3244.3	3484.1	3667.1	3492.3	3252.4	3199.6	3183.3	3199.6
35°	3488.2	3488.2	3427.2	3333.7	3459.7	3504.5	3423.2	3309.3	3374.4	3508.5	3516.7
37.5°	3850.0	3797.2	3821.6	3809.4	3671.1	3573.6	3715.9	3789.0	3801.2	3797.2	3837.8
40°	4065.5	4028.9	3992.3	4057.4	4183.4	4272.8	4146.8	3972.0	4016.7	4106.2	4069.6
42.5°	4557.4	4463.9	4472.1	4407.0	4402.9	4374.5	4346.0	4358.2	4423.3	4524.9	4541.2
45°	5061.6	5106.3	5077.8	4955.8	5012.8	5012.8	4931.5	4992.4	5025.0	5142.9	5159.1
47.5°	5850.3	5829.9	5842.1	5732.4	5728.3	5756.8	5728.3	5732.4	5834.0	5825.9	5781.1
50°	6773.1	6830.0	6846.3	6793.5	6728.4	6716.2	6671.5	6728.4	6789.4	6793.5	6756.9
52.5°	8049.7	8110.7	8110.7	8126.9	8208.3	8167.6	8159.5	8163.5	8045.6	7964.3	8005.0
55°	9659.6	9680.0	9749.1	9891.4	10139.4	10171.9	10017.4	9948.3	9732.8	9602.7	9704.4
57.5°	11249.2	11330.6	11521.6	11891.6	12196.5	12529.9	12082.7	11627.3	11204.5	10997.2	11033.8
60°	12570.5	12688.4	13054.3	13570.6	14416.3	14721.2	13965.0	13184.4	12326.6	11692.4	11948.5
62.5°	13192.6	13375.5	13684.5	14729.3	15997.8	16436.8	15326.9	13908.1	12607.1	11997.3	11985.1
64°	13196.6	13225.1	13843.0	14969.2	16274.2	17123.9	15656.3	13908.1	12676.2	11924.1	12062.3
65°	12924.2	13042.1	13639.8	14749.6	16099.4	17180.8	15542.4	13717.0	12391.7	11806.2	11871.3
67.5°	11688.3	11684.3	12237.2	13338.9	15213.1	16534.4	14574.8	12647.8	11688.3	11054.1	11131.3
70°	8866.9	9009.2	9537.7	10891.5	13164.1	14578.9	12745.4	10749.2	9553.9	9045.7	9017.3
72.5°	5305.5	5492.5	6167.4	7818.0	10224.7	11944.4	10115.0	7952.1	6512.9	5708.0	5728.3
75°	2419.0	2557.2	3020.7	4366.3	6813.8	8732.7	6854.4	4598.1	3297.1	2784.9	2711.7
77.5°	678.9	764.3	1020.4	2004.3	3740.3	5236.4	3846.0	2215.7	1439.2	1195.3	1170.9
80°	304.9	321.2	361.8	487.9	1187.1	2309.2	1589.6	813.1	540.7	447.2	426.9
82.5°	166.7	178.9	235.8	252.1	337.4	613.9	524.4	382.2	325.2	260.2	252.1
85°	93.5	97.6	134.2	134.2	162.6	178.9	191.1	203.3	199.2	146.4	142.3
87.5°	28.5	32.5	40.7	40.7	40.7	40.7	65.0	89.4	97.6	69.1	69.1
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)