

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: P479851

Luminaire Tested: **IFLD-S-SA6D-827-U-5WQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479851
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-827-U-5WQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5WQ distribution lens
Light Source: (96) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

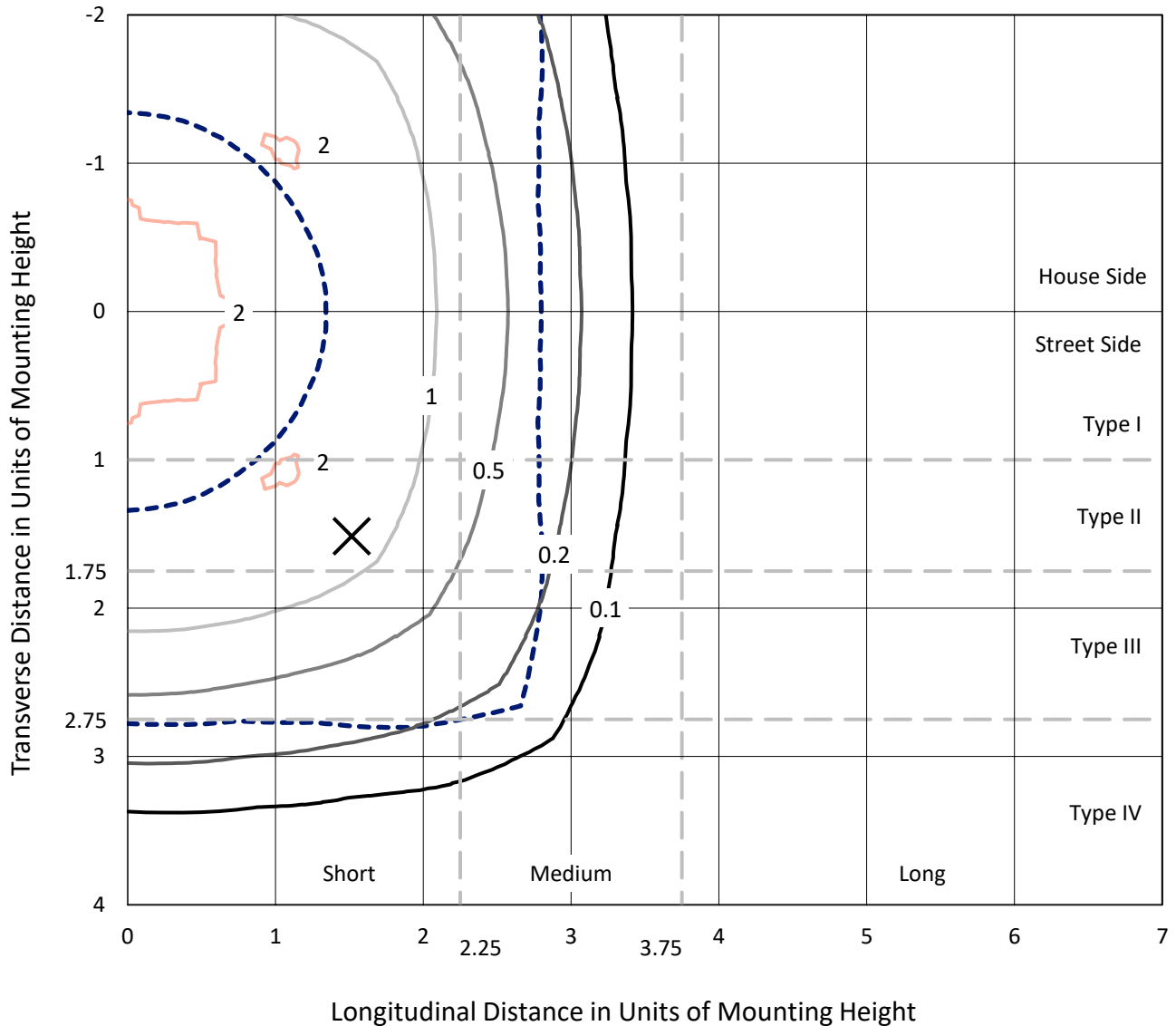
Lumens per Lamp: N/A
Luminaire Lumens: 34490.4 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 368.2
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

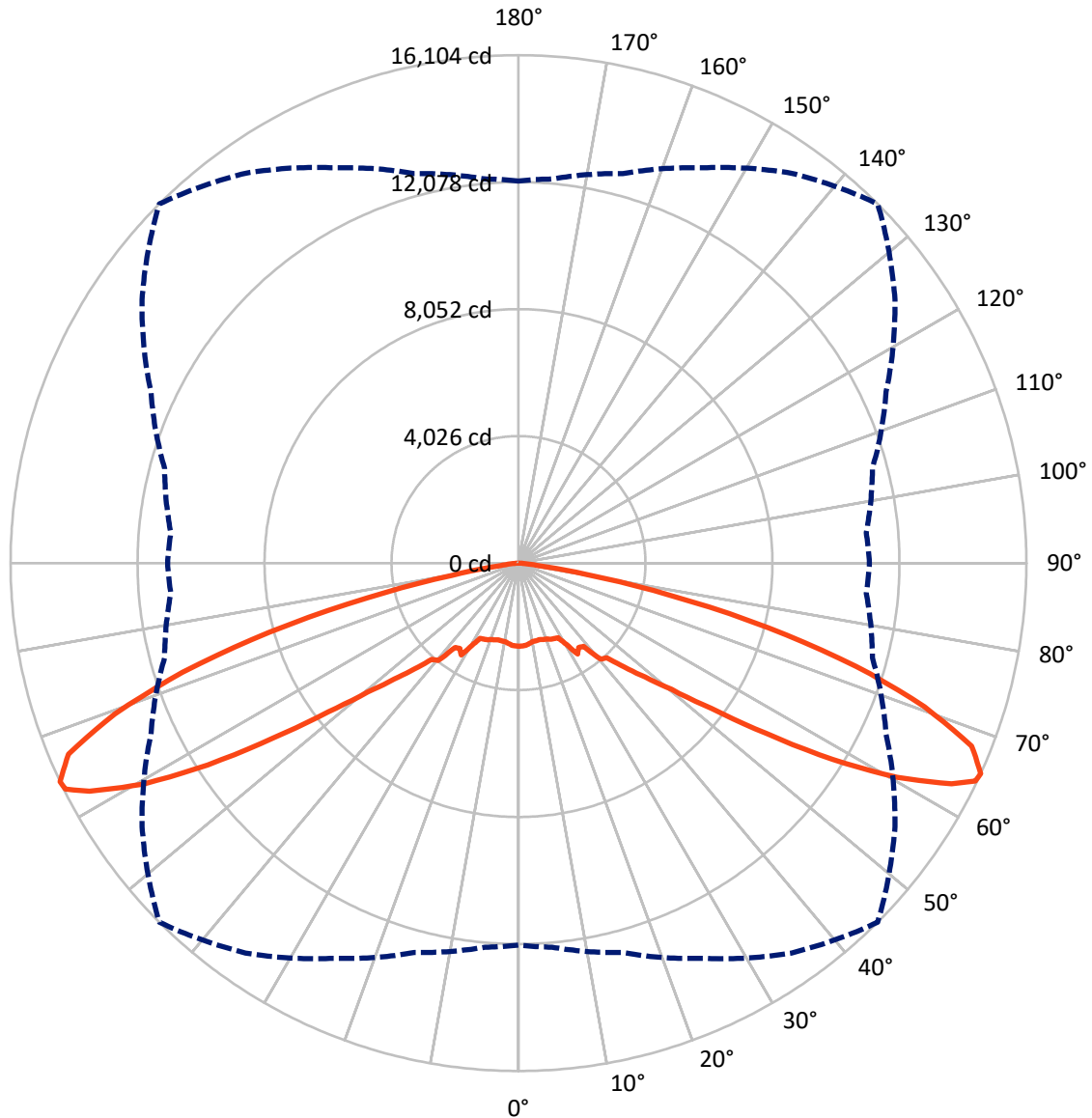
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 2.9 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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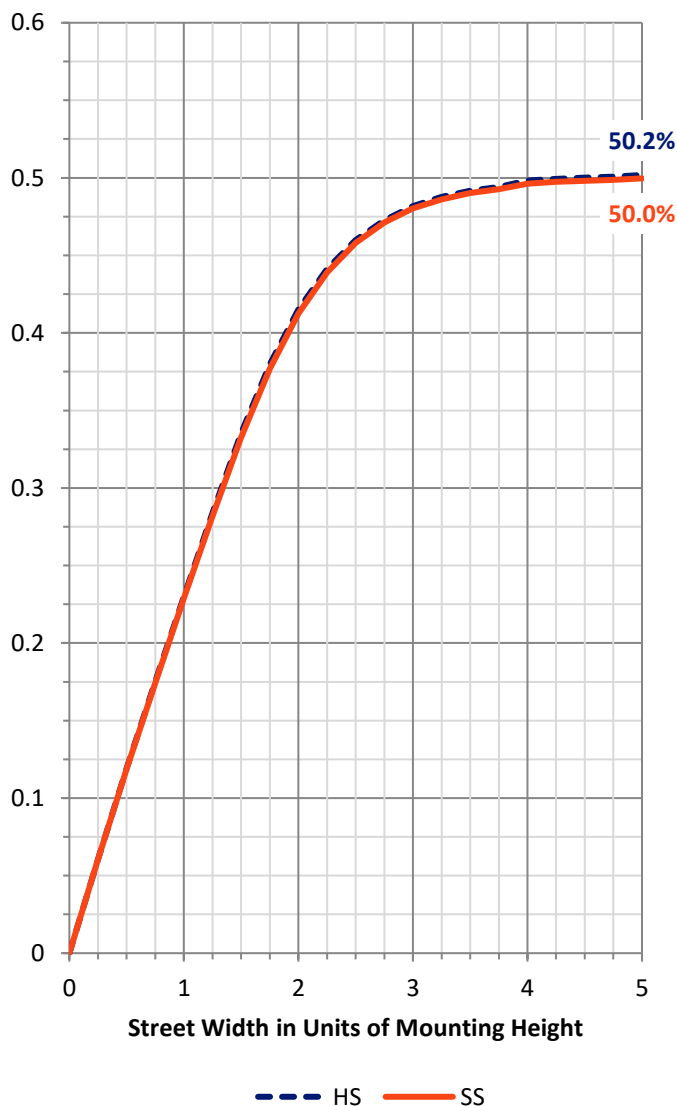
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17245.2	0.0	17245.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17245.2	0.0	17245.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	34490.4	0.0	34490.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.5	0.7
10°-20°	726.9	2.1
20°-30°	1258.2	3.6
30°-40°	2092.2	6.1
40°-50°	3774.7	10.9
50°-60°	8408.7	24.4
60°-70°	12531.7	36.3
70°-80°	5193.3	15.1
80°-90°	257.2	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°	34490.4	100.0
0°-180°	34490.4	100.0

Coefficient of Utilization



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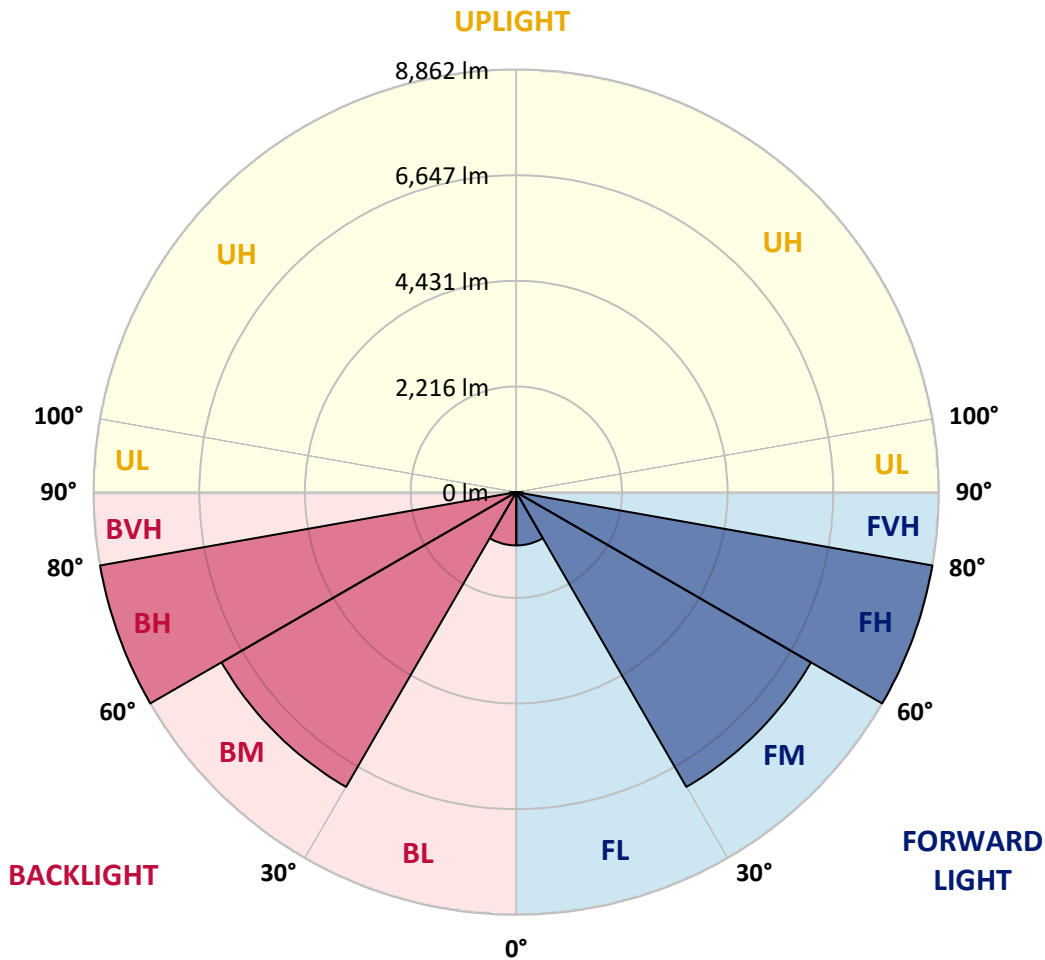
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1116.3	3.2			
FM (30°-60°)	7137.8	20.7			
FH (60°-80°)	8862.5	25.7			G4/12000
FVH (80°-90°)	128.6	0.4			G2/225
BL (0°-30°)	1116.3	3.2	B3/2500		
BM (30°-60°)	7137.8	20.7	B4/8500		
BH (60°-80°)	8862.5	25.7	B5		G4/12000
BVH (80°-90°)	128.6	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°	2637.0	2637.0	2637.0	2637.0	2637.0	2637.0	2637.0	2637.0	2637.0	2637.0	2637.0
2.5°	2606.5	2614.1	2610.3	2610.3	2621.8	2629.4	2633.2	2671.3	2656.1	2667.5	2656.1
5°	2614.1	2614.1	2621.8	2614.1	2621.8	2614.1	2621.8	2610.3	2621.8	2629.4	2640.8
7.5°	2598.9	2591.3	2579.8	2579.8	2576.0	2568.4	2557.0	2587.5	2572.2	2583.7	2602.7
10°	2602.7	2591.3	2553.2	2560.8	2526.5	2526.5	2534.1	2534.1	2568.4	2606.5	2617.9
12.5°	2602.7	2579.8	2568.4	2518.9	2518.9	2522.7	2541.7	2549.4	2572.2	2587.5	2625.6
15°	2602.7	2591.3	2572.2	2507.4	2522.7	2515.1	2534.1	2534.1	2583.7	2610.3	2629.4
17.5°	2617.9	2625.6	2591.3	2530.3	2534.1	2549.4	2537.9	2549.4	2610.3	2629.4	2656.1
20°	2621.8	2591.3	2579.8	2541.7	2576.0	2568.4	2564.6	2587.5	2606.5	2640.8	2671.3
22.5°	2614.1	2625.6	2579.8	2576.0	2606.5	2621.8	2629.4	2602.7	2625.6	2648.4	2675.1
25°	2678.9	2637.0	2625.6	2617.9	2633.2	2648.4	2640.8	2663.7	2663.7	2690.4	2724.6
27.5°	2854.2	2858.0	2835.2	2743.7	2713.2	2678.9	2694.2	2755.1	2827.5	2884.7	2896.1
30°	2934.2	2949.5	3010.5	2995.2	2983.8	2995.2	2991.4	3006.6	3014.3	3018.1	3006.6
32.5°	3006.6	2999.0	2972.3	3040.9	3265.8	3437.2	3273.4	3048.6	2999.0	2983.8	2999.0
35°	3269.6	3269.6	3212.4	3124.8	3242.9	3284.8	3208.6	3101.9	3162.9	3288.6	3296.3
37.5°	3608.7	3559.2	3582.1	3570.6	3441.1	3349.6	3483.0	3551.6	3563.0	3559.2	3597.3
40°	3810.7	3776.4	3742.1	3803.1	3921.2	4005.0	3886.9	3723.1	3765.0	3848.8	3814.5
42.5°	4271.8	4184.1	4191.8	4130.8	4127.0	4100.3	4073.6	4085.1	4146.0	4241.3	4256.5
45°	4744.3	4786.2	4759.6	4645.2	4698.6	4698.6	4622.4	4679.5	4710.0	4820.5	4835.8
47.5°	5483.6	5464.5	5476.0	5373.1	5369.3	5395.9	5369.3	5373.1	5468.4	5460.7	5418.8
50°	6348.6	6402.0	6417.2	6367.7	6306.7	6295.3	6253.4	6306.7	6363.9	6367.7	6333.4
52.5°	7545.2	7602.3	7602.3	7617.6	7693.8	7655.7	7648.1	7651.9	7541.4	7465.2	7503.3
55°	9054.2	9073.3	9138.1	9271.4	9503.9	9534.4	9389.6	9324.8	9122.8	9000.9	9096.1
57.5°	10544.2	10620.4	10799.5	11146.3	11432.1	11744.6	11325.4	10898.6	10502.3	10307.9	10342.2
60°	11782.7	11893.2	12236.1	12720.1	13512.7	13798.5	13089.7	12358.1	11554.0	10959.6	11199.6
62.5°	12365.7	12537.2	12826.8	13806.2	14995.1	15406.6	14366.3	13036.4	11817.0	11245.4	11233.9
64°	12369.5	12396.2	12975.4	14031.0	15254.2	16050.7	14675.0	13036.4	11881.8	11176.8	11306.3
65°	12114.2	12224.7	12784.9	13825.2	15090.4	16104.0	14568.3	12857.3	11615.0	11066.3	11127.2
67.5°	10955.8	10951.9	11470.2	12502.9	14259.6	15498.1	13661.3	11855.1	10955.8	10361.3	10433.7
70°	8311.1	8444.5	8939.9	10208.9	12339.0	13665.2	11946.5	10075.5	8955.1	8478.8	8452.1
72.5°	4973.0	5148.3	5780.8	7328.0	9583.9	11195.8	9481.0	7453.7	6104.7	5350.2	5369.3
75°	2267.4	2396.9	2831.3	4092.7	6386.7	8185.4	6424.8	4309.9	3090.5	2610.3	2541.7
77.5°	636.4	716.4	956.5	1878.7	3505.8	4908.2	3604.9	2076.8	1349.0	1120.3	1097.5
80°	285.8	301.0	339.2	457.3	1112.7	2164.5	1490.0	762.1	506.8	419.2	400.1
82.5°	156.2	167.7	221.0	236.3	316.3	575.4	491.6	358.2	304.9	243.9	236.3
85°	87.6	91.5	125.8	125.8	152.4	167.7	179.1	190.5	186.7	137.2	133.4
87.5°	26.7	30.5	38.1	38.1	38.1	38.1	61.0	83.8	91.5	64.8	64.8
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)