

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: P479864

Luminaire Tested: **IFLD-L-SA8B-827-U-5WQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479864
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-827-U-5WQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5WQ distribution lens
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

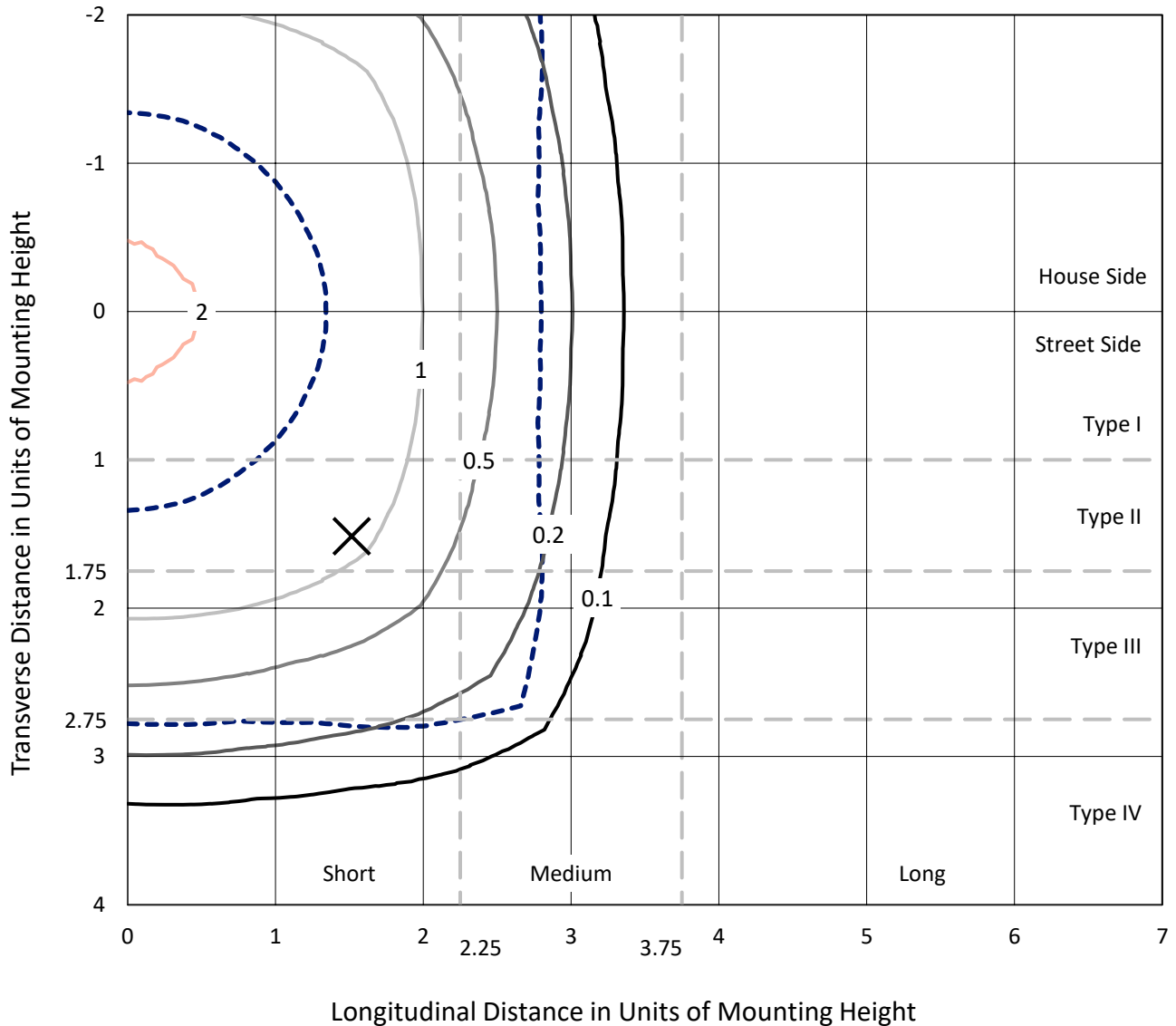
Lumens per Lamp: N/A
Luminaire Lumens: 30701.1 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 320
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

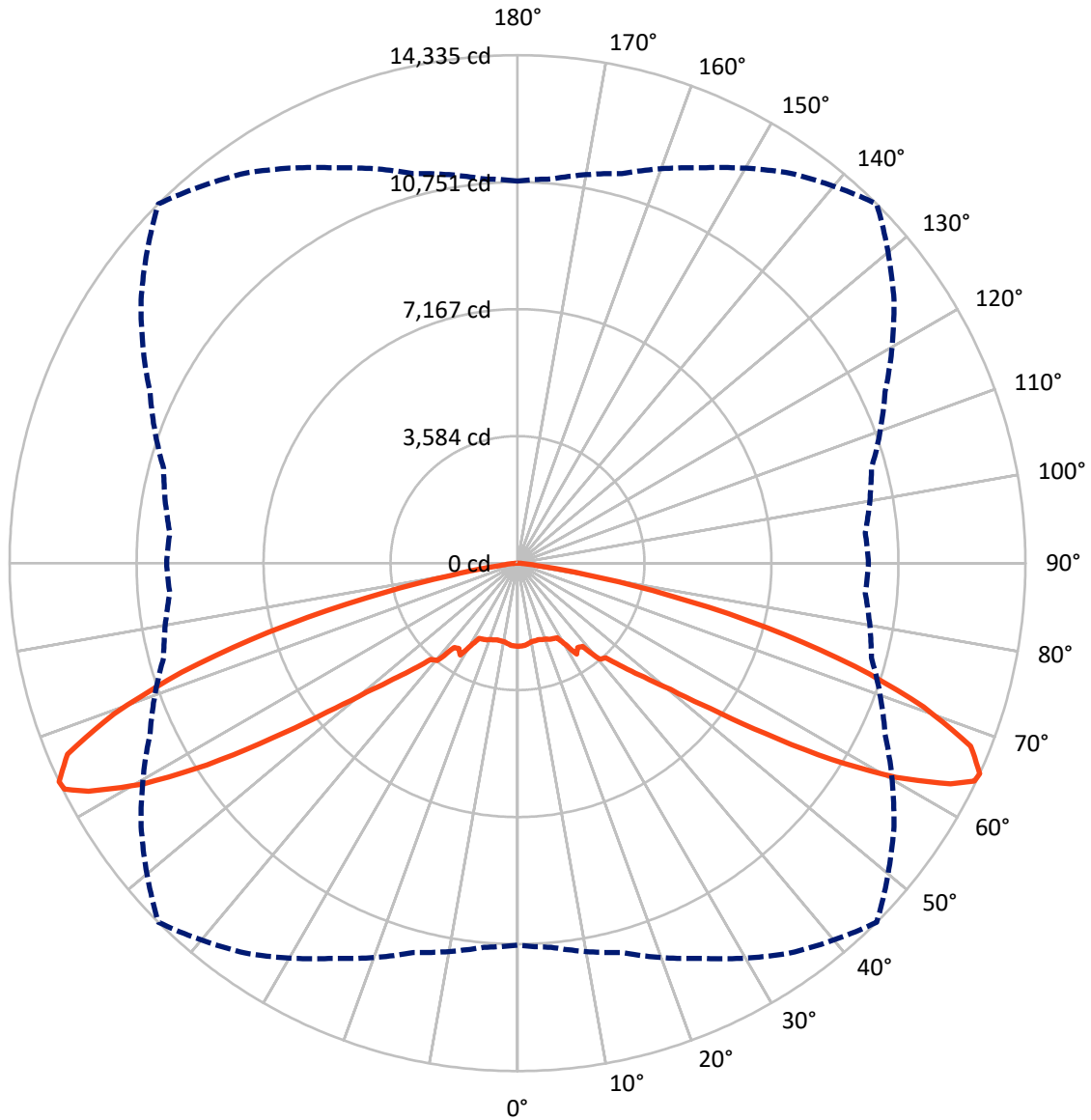
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 2.6 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	15350.6	0.0	15350.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15350.6	0.0	15350.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	30701.1	0.0	30701.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.3	0.7
10°-20°	647.1	2.1
20°-30°	1120.0	3.6
30°-40°	1862.3	6.1
40°-50°	3360.0	10.9
50°-60°	7484.9	24.4
60°-70°	11154.9	36.3
70°-80°	4622.7	15.1
80°-90°	229.0	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°	30701.1	100.0
0°-180°	30701.1	100.0

Coefficient of Utilization



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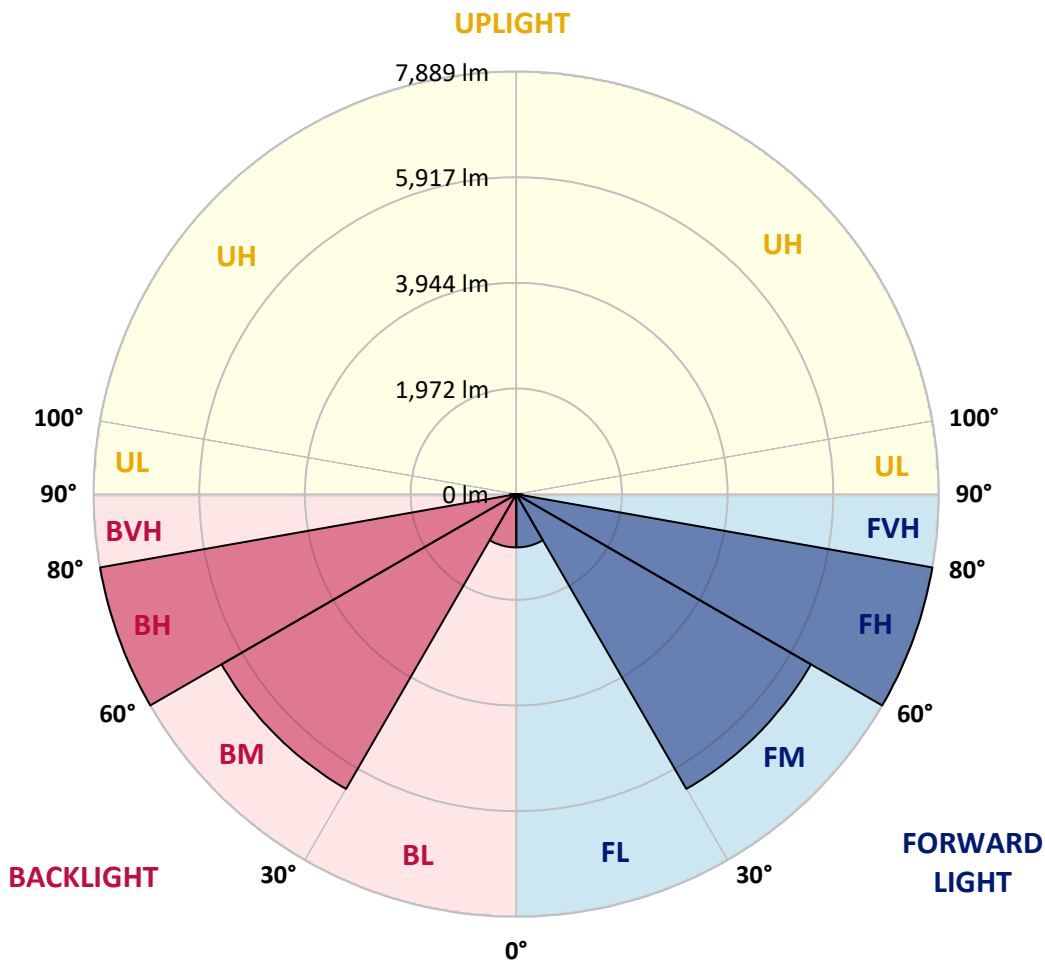
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	993.7	3.2			
FM (30°-60°)	6353.6	20.7			
FH (60°-80°)	7888.8	25.7			G4/12000
FVH (80°-90°)	114.5	0.4			G2/225
BL (0°-30°)	993.7	3.2	B2/1000		
BM (30°-60°)	6353.6	20.7	B4/8500		
BH (60°-80°)	7888.8	25.7	B5		G4/12000
BVH (80°-90°)	114.5	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°	2347.3	2347.3	2347.3	2347.3	2347.3	2347.3	2347.3	2347.3	2347.3	2347.3	2347.3
2.5°	2320.2	2326.9	2323.5	2323.5	2333.7	2340.5	2343.9	2377.8	2364.3	2374.4	2364.3
5°	2326.9	2326.9	2333.7	2326.9	2333.7	2326.9	2333.7	2323.5	2333.7	2340.5	2350.7
7.5°	2313.4	2306.6	2296.4	2296.4	2293.0	2286.2	2276.1	2303.2	2289.6	2299.8	2316.8
10°	2316.8	2306.6	2272.7	2279.5	2248.9	2248.9	2255.7	2255.7	2286.2	2320.2	2330.3
12.5°	2316.8	2296.4	2286.2	2242.1	2242.1	2245.5	2262.5	2269.3	2289.6	2303.2	2337.1
15°	2316.8	2306.6	2289.6	2232.0	2245.5	2238.7	2255.7	2255.7	2299.8	2323.5	2340.5
17.5°	2330.3	2337.1	2306.6	2252.3	2255.7	2269.3	2259.1	2269.3	2323.5	2340.5	2364.3
20°	2333.7	2306.6	2296.4	2262.5	2293.0	2286.2	2282.8	2303.2	2320.2	2350.7	2377.8
22.5°	2326.9	2337.1	2296.4	2293.0	2320.2	2333.7	2340.5	2316.8	2337.1	2357.5	2381.2
25°	2384.6	2347.3	2337.1	2330.3	2343.9	2357.5	2350.7	2371.0	2371.0	2394.8	2425.3
27.5°	2540.6	2544.0	2523.7	2442.3	2415.1	2384.6	2398.2	2452.4	2516.9	2567.8	2578.0
30°	2611.9	2625.4	2679.7	2666.1	2656.0	2666.1	2662.8	2676.3	2683.1	2686.5	2676.3
32.5°	2676.3	2669.5	2645.8	2706.8	2907.0	3059.6	2913.8	2713.6	2669.5	2656.0	2669.5
35°	2910.4	2910.4	2859.5	2781.5	2886.6	2923.9	2856.1	2761.1	2815.4	2927.3	2934.1
37.5°	3212.3	3168.2	3188.5	3178.3	3063.0	2981.6	3100.3	3161.4	3171.6	3168.2	3202.1
40°	3392.0	3361.5	3331.0	3385.3	3490.4	3565.0	3459.9	3314.0	3351.3	3426.0	3395.4
42.5°	3802.5	3724.5	3731.2	3677.0	3673.6	3649.8	3626.1	3636.3	3690.5	3775.3	3788.9
45°	4223.1	4260.4	4236.7	4134.9	4182.4	4182.4	4114.5	4165.4	4192.6	4290.9	4304.5
47.5°	4881.1	4864.2	4874.4	4782.8	4779.4	4803.1	4779.4	4782.8	4867.6	4860.8	4823.5
50°	5651.1	5698.6	5712.2	5668.1	5613.8	5603.7	5566.3	5613.8	5664.7	5668.1	5637.6
52.5°	6716.2	6767.1	6767.1	6780.7	6848.5	6814.6	6807.8	6811.2	6712.8	6645.0	6678.9
55°	8059.5	8076.4	8134.1	8252.8	8459.8	8486.9	8358.0	8300.3	8120.5	8012.0	8096.8
57.5°	9385.8	9453.6	9613.0	9921.7	10176.1	10454.3	10081.1	9701.2	9348.5	9175.5	9206.0
60°	10488.2	10586.6	10891.8	11322.6	12028.2	12282.6	11651.7	11000.4	10284.7	9755.5	9969.2
62.5°	11007.2	11159.8	11417.6	12289.4	13347.7	13714.0	12788.0	11604.2	10518.7	10009.9	9999.7
64°	11010.6	11034.3	11549.9	12489.5	13578.3	14287.3	13062.7	11604.2	10576.4	9948.9	10064.2
65°	10783.3	10881.7	11380.3	12306.3	13432.5	14334.8	12967.8	11444.7	10338.9	9850.5	9904.8
67.5°	9752.1	9748.7	10210.0	11129.3	12693.0	13795.4	12160.5	10552.6	9752.1	9223.0	9287.4
70°	7398.0	7516.8	7957.7	9087.3	10983.4	12163.9	10634.0	8968.6	7971.3	7547.3	7523.5
72.5°	4426.6	4582.6	5145.7	6522.9	8531.0	9965.8	8439.4	6634.8	5434.0	4762.4	4779.4
75°	2018.3	2133.6	2520.3	3643.1	5685.1	7286.1	5719.0	3836.4	2750.9	2323.5	2262.5
77.5°	566.5	637.7	851.4	1672.3	3120.7	4368.9	3208.9	1848.7	1200.8	997.3	976.9
80°	254.4	268.0	301.9	407.0	990.5	1926.7	1326.3	678.4	451.1	373.1	356.2
82.5°	139.1	149.2	196.7	210.3	281.5	512.2	437.6	318.9	271.4	217.1	210.3
85°	78.0	81.4	111.9	111.9	135.7	149.2	159.4	169.6	166.2	122.1	118.7
87.5°	23.7	27.1	33.9	33.9	33.9	33.9	54.3	74.6	81.4	57.7	57.7
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)