

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: P479623

Luminaire Tested: **IFLD-M-SA4E-727-U-5WQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479623
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-727-U-5WQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5WQ distribution lens
Light Source: (64) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

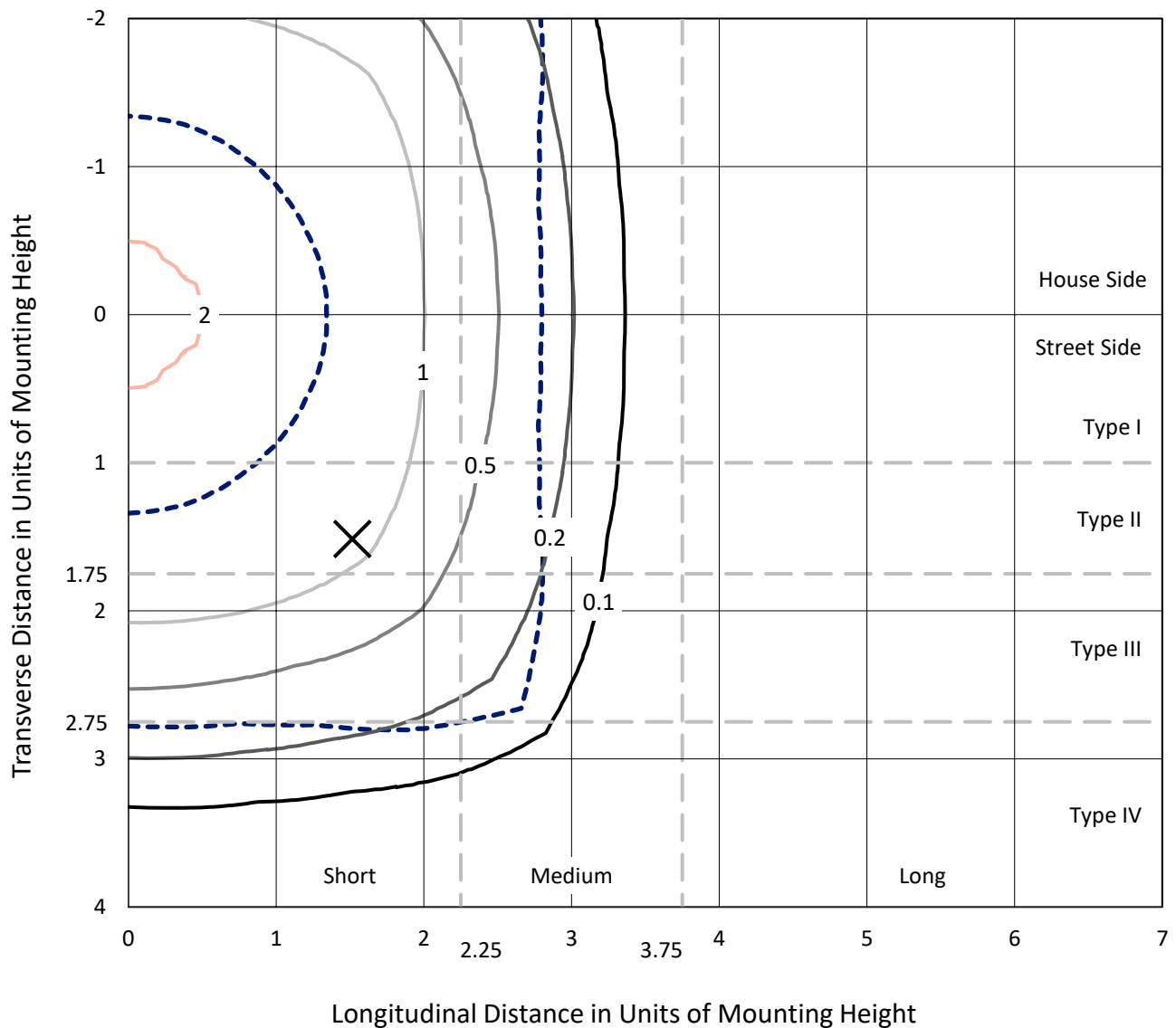
Lumens per Lamp: N/A
Luminaire Lumens: 31070.9 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 314.8
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

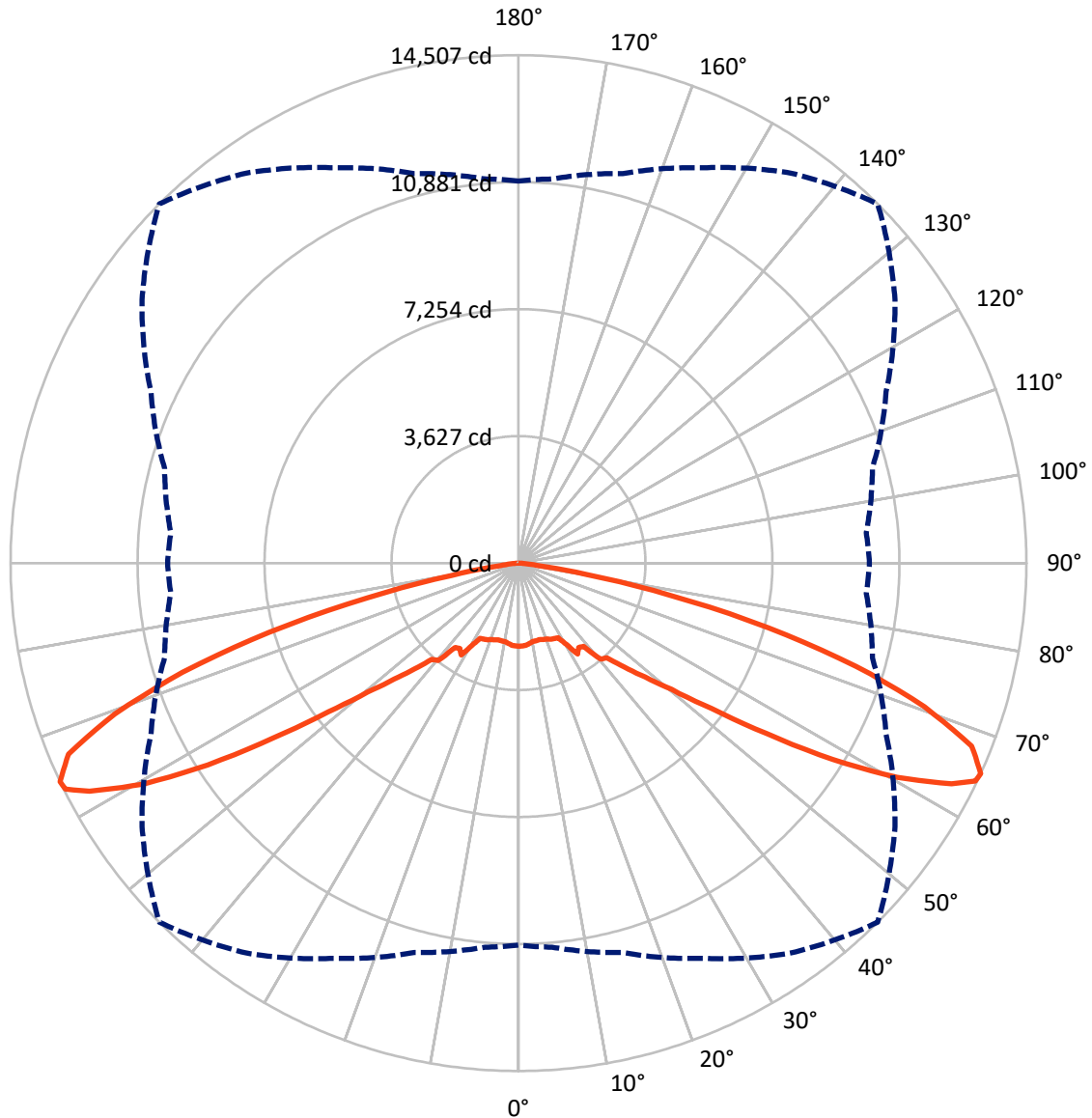
× Max cd
 - - - 1/2 Max cd



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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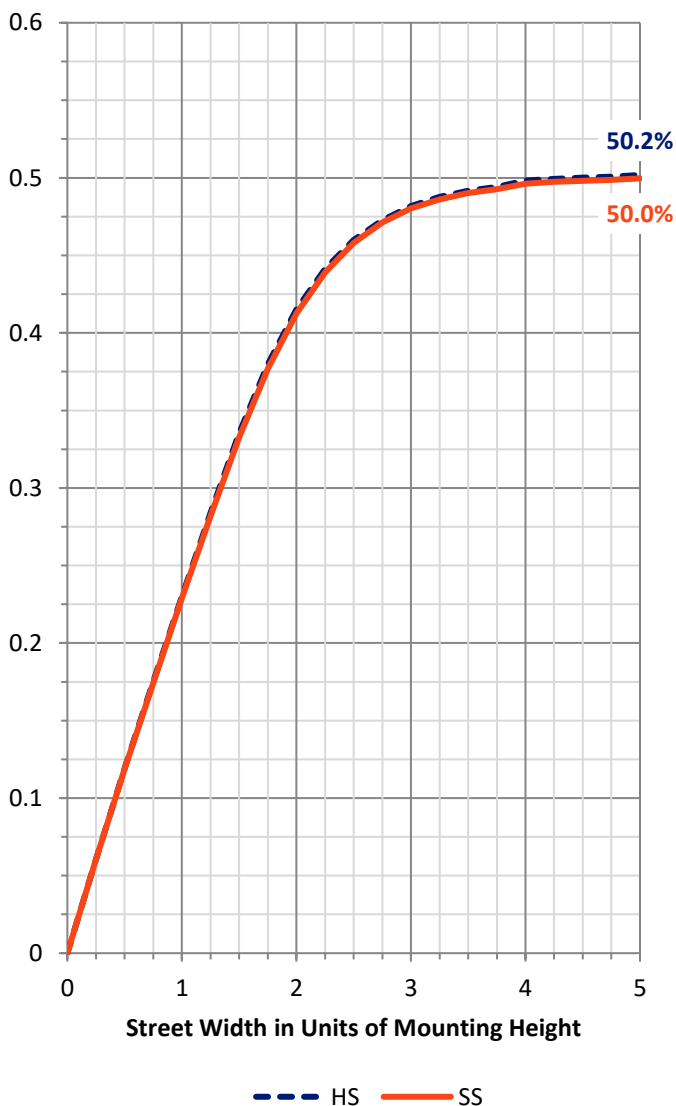
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15535.5	0.0	15535.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15535.5	0.0	15535.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	31070.9	0.0	31070.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.9	0.7
10°-20°	654.8	2.1
20°-30°	1133.5	3.6
30°-40°	1884.8	6.1
40°-50°	3400.4	10.9
50°-60°	7575.0	24.4
60°-70°	11289.2	36.3
70°-80°	4678.4	15.1
80°-90°	231.7	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°	31070.9	100.0
0°-180°	31070.9	100.0

Coefficient of Utilization



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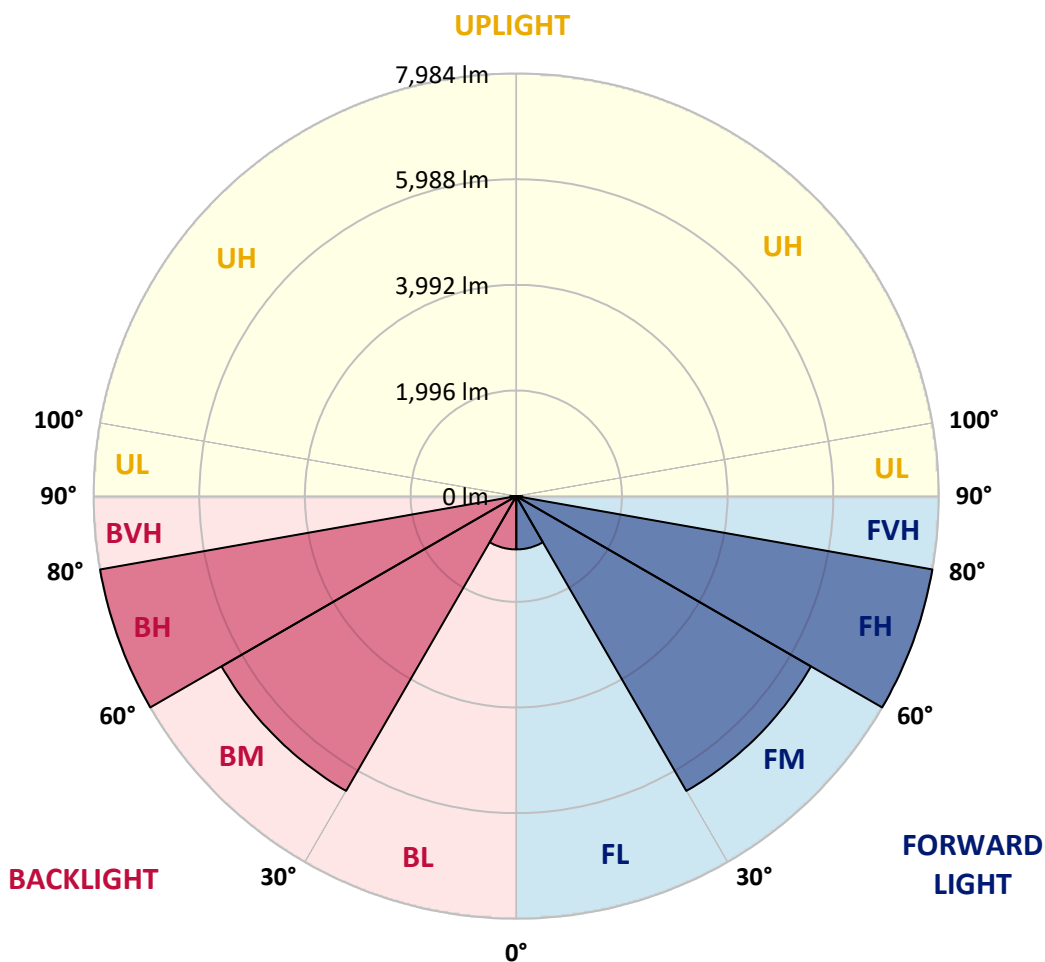
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1005.6	3.2			
FM (30°-60°)	6430.1	20.7			
FH (60°-80°)	7983.8	25.7			G4/12000
FVH (80°-90°)	115.9	0.4			G2/225
BL (0°-30°)	1005.6	3.2	B3/2500		
BM (30°-60°)	6430.1	20.7	B4/8500		
BH (60°-80°)	7983.8	25.7	B5		G4/12000
BVH (80°-90°)	115.9	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°	2375.6	2375.6	2375.6	2375.6	2375.6	2375.6	2375.6	2375.6	2375.6	2375.6	2375.6
2.5°	2348.1	2355.0	2351.5	2351.5	2361.8	2368.7	2372.1	2406.5	2392.7	2403.0	2392.7
5°	2355.0	2355.0	2361.8	2355.0	2361.8	2355.0	2361.8	2351.5	2361.8	2368.7	2379.0
7.5°	2341.2	2334.4	2324.1	2324.1	2320.6	2313.8	2303.5	2330.9	2317.2	2327.5	2344.7
10°	2344.7	2334.4	2300.0	2306.9	2276.0	2276.0	2282.9	2282.9	2313.8	2348.1	2358.4
12.5°	2344.7	2324.1	2313.8	2269.1	2269.1	2272.6	2289.7	2296.6	2317.2	2330.9	2365.3
15°	2344.7	2334.4	2317.2	2258.8	2272.6	2265.7	2282.9	2282.9	2327.5	2351.5	2368.7
17.5°	2358.4	2365.3	2334.4	2279.4	2282.9	2296.6	2286.3	2296.6	2351.5	2368.7	2392.7
20°	2361.8	2334.4	2324.1	2289.7	2320.6	2313.8	2310.3	2330.9	2348.1	2379.0	2406.5
22.5°	2355.0	2365.3	2324.1	2320.6	2348.1	2361.8	2368.7	2344.7	2365.3	2385.9	2409.9
25°	2413.3	2375.6	2365.3	2358.4	2372.1	2385.9	2379.0	2399.6	2399.6	2423.6	2454.5
27.5°	2571.2	2574.7	2554.1	2471.7	2444.2	2413.3	2427.1	2482.0	2547.2	2598.7	2609.0
30°	2643.3	2657.1	2712.0	2698.3	2688.0	2698.3	2694.8	2708.6	2715.4	2718.8	2708.6
32.5°	2708.6	2701.7	2677.7	2739.4	2942.0	3096.5	2948.9	2746.3	2701.7	2688.0	2701.7
35°	2945.4	2945.4	2893.9	2815.0	2921.4	2959.2	2890.5	2794.4	2849.3	2962.6	2969.5
37.5°	3250.9	3206.3	3226.9	3216.6	3099.9	3017.5	3137.7	3199.5	3209.8	3206.3	3240.6
40°	3432.9	3402.0	3371.1	3426.0	3532.4	3608.0	3501.5	3353.9	3391.7	3467.2	3436.3
42.5°	3848.3	3769.3	3776.2	3721.3	3717.8	3693.8	3669.8	3680.1	3735.0	3820.8	3834.5
45°	4273.9	4311.7	4287.7	4184.7	4232.8	4232.8	4164.1	4215.6	4243.1	4342.6	4356.3
47.5°	4939.9	4922.8	4933.1	4840.4	4836.9	4861.0	4836.9	4840.4	4926.2	4919.3	4881.6
50°	5719.2	5767.3	5781.0	5736.4	5681.4	5671.1	5633.4	5681.4	5732.9	5736.4	5705.5
52.5°	6797.1	6848.6	6848.6	6862.3	6931.0	6896.7	6889.8	6893.2	6793.7	6725.0	6759.4
55°	8156.5	8173.7	8232.1	8352.2	8561.6	8589.1	8458.6	8400.3	8218.3	8108.5	8194.3
57.5°	9498.8	9567.5	9728.8	10041.2	10298.7	10580.2	10202.6	9818.1	9461.0	9286.0	9316.9
60°	10614.5	10714.1	11023.0	11459.0	12173.0	12430.5	11792.0	11132.9	10408.5	9873.0	10089.3
62.5°	11139.7	11294.2	11555.1	12437.4	13508.4	13879.2	12942.0	11743.9	10645.4	10130.5	10120.2
64°	11143.2	11167.2	11689.0	12639.9	13741.9	14459.3	13220.1	11743.9	10703.8	10068.7	10185.4
65°	10913.2	11012.7	11517.3	12454.5	13594.2	14507.4	13123.9	11582.6	10463.5	9969.1	10024.0
67.5°	9869.6	9866.1	10333.0	11263.3	12845.9	13961.6	12306.9	10679.7	9869.6	9334.0	9399.3
70°	7487.1	7607.3	8053.6	9196.7	11115.7	12310.3	10762.1	9076.6	8067.3	7638.2	7614.2
72.5°	4479.9	4637.8	5207.7	6601.4	8633.7	10085.8	8541.0	6714.7	5499.5	4819.8	4836.9
75°	2042.6	2159.3	2550.6	3686.9	5753.5	7373.9	5787.9	3882.6	2784.1	2351.5	2289.7
77.5°	573.3	645.4	861.7	1692.4	3158.3	4421.6	3247.5	1870.9	1215.2	1009.3	988.7
80°	257.5	271.2	305.5	411.9	1002.4	1949.9	1342.3	686.6	456.6	377.6	360.5
82.5°	140.7	151.0	199.1	212.8	284.9	518.4	442.8	322.7	274.6	219.7	212.8
85°	79.0	82.4	113.3	113.3	137.3	151.0	161.3	171.6	168.2	123.6	120.2
87.5°	24.0	27.5	34.3	34.3	34.3	34.3	54.9	75.5	82.4	58.4	58.4
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)