

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: P524284

Luminaire Tested: **IFLD-M-SA4D-927-U-55**

Issue Date: 05/27/2021



Test Information

Test Method: LM-79-08
Report Number: P524284
Test Lab: INNOVATION CENTER(G2)
Issue Date: 05/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-927-U-55
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 55
distribution lens
Light Source: (64) 2700K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19593.1 lumens
Efficiency: N/A
Efficacy: 78.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 249.7
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

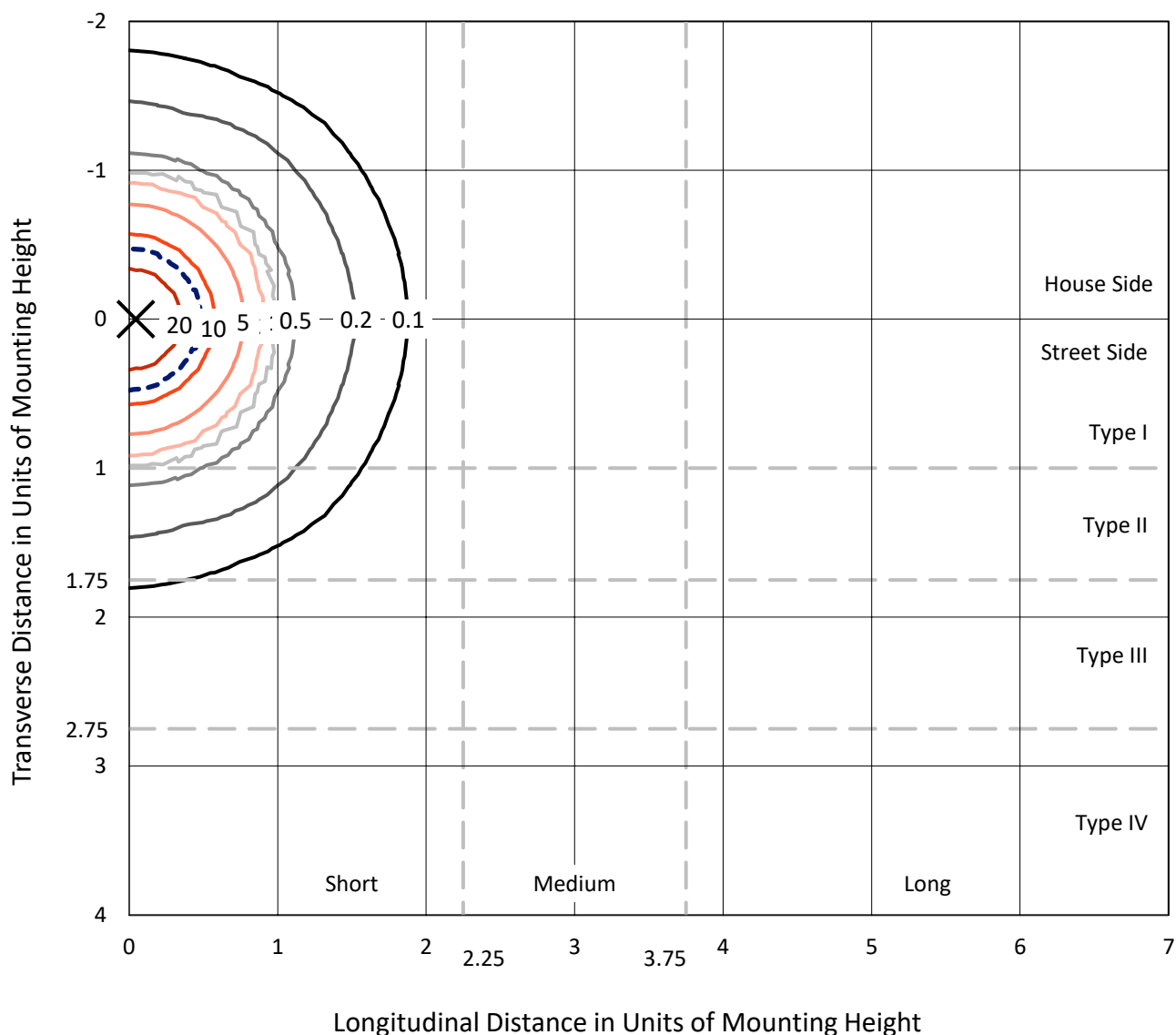
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

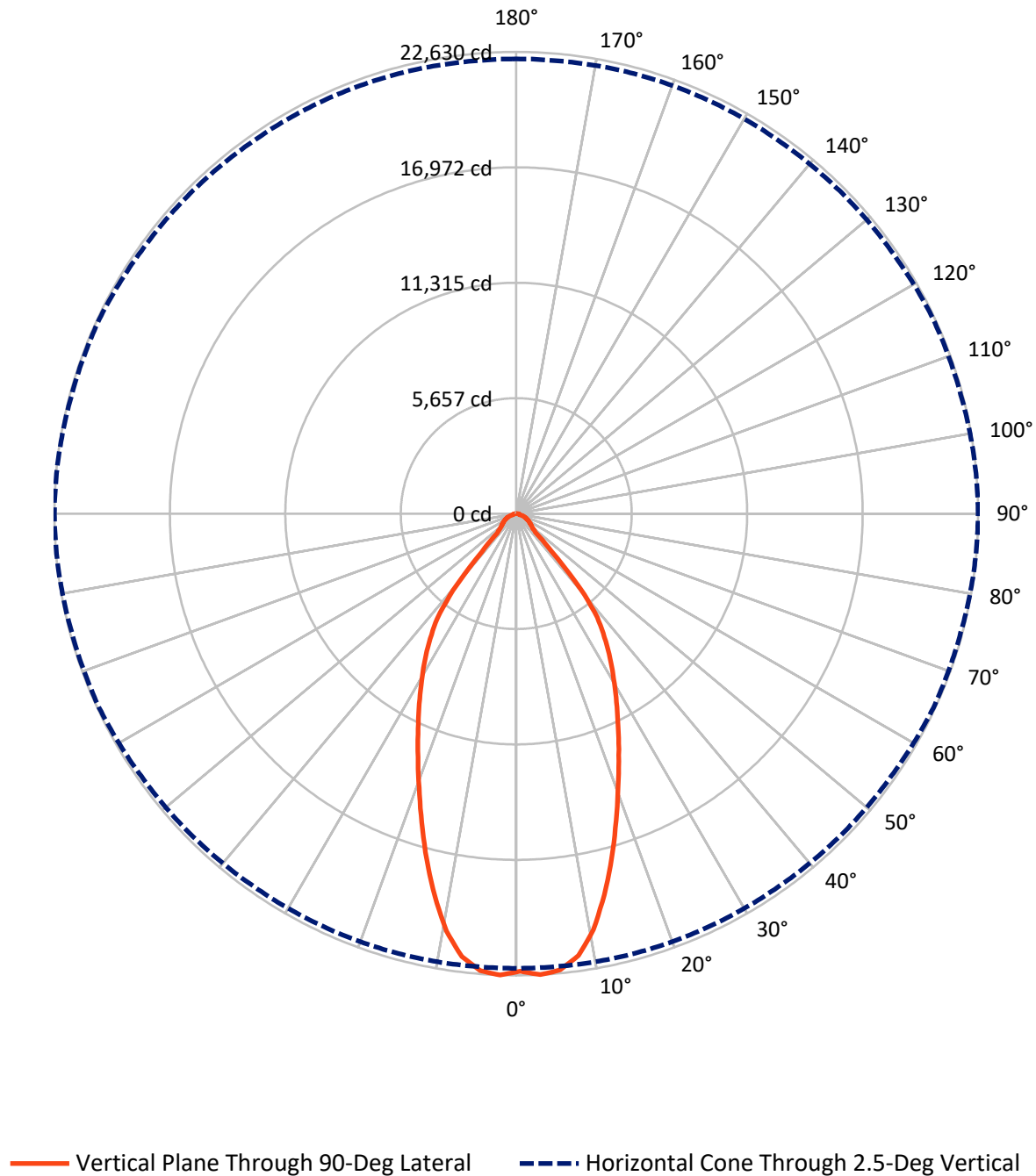


Based on 25 foot mounting height. Maximum calculated value = 35.9 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9796.5	0.0	9796.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9796.5	0.0	9796.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	19593.1	0.0	19593.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2067.6	10.6
10°-20°	4772.7	24.4
20°-30°	5240.0	26.7
30°-40°	4543.5	23.2
40°-50°	1495.0	7.6
50°-60°	670.3	3.4
60°-70°	473.8	2.4
70°-80°	257.2	1.3
80°-90°	73.0	0.4
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°	19593.1	100.0
0°-180°	19593.1	100.0

Coefficient of Utilization



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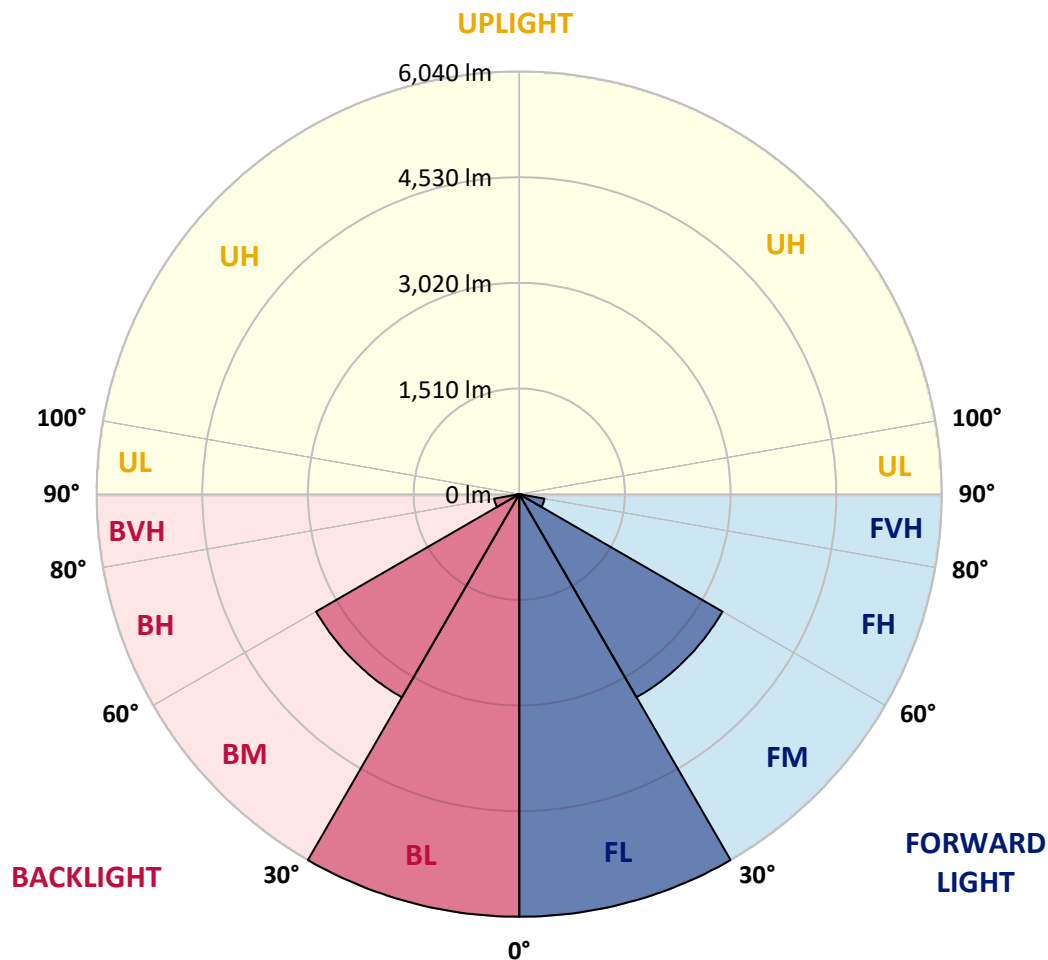
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6040.2	30.8			
FM	(30°-60°)	3354.4	17.1			
FH	(60°-80°)	365.5	1.9			G0/660
FVH	(80°-90°)	36.5	0.2			G1/100
BL	(0°-30°)	6040.2	30.8	B5		
BM	(30°-60°)	3354.4	17.1	B3/5000		
BH	(60°-80°)	365.5	1.9	B1/500		G0/660
BVH	(80°-90°)	36.5	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	22428.0	22428.0	22428.0	22428.0	22428.0	22428.0	22428.0	22428.0	22428.0	22428.0
2.5°	22288.4	22285.5	22321.1	22338.9	22347.8	22389.4	22430.9	22540.8	22543.7	22609.0
5°	22258.7	22232.0	22255.8	22220.2	22229.1	22229.1	22282.5	22362.6	22392.3	22457.6
7.5°	21596.7	21590.8	21576.0	21537.4	21584.9	21552.2	21650.2	21721.4	21789.7	21822.4
10°	20361.8	20305.4	20305.4	20252.0	20299.5	20254.9	20415.2	20480.5	20596.3	20664.6
12.5°	18764.7	18740.9	18743.9	18720.1	18717.2	18654.8	18841.9	18898.3	19002.2	19103.1
15°	17060.7	17025.1	17057.7	17057.7	17031.0	16974.6	17173.5	17250.7	17402.1	17449.6
17.5°	15377.5	15362.6	15383.4	15392.3	15371.5	15318.1	15511.1	15680.3	15784.2	15784.2
20°	13833.8	13827.9	13854.6	13827.9	13807.1	13771.4	13949.6	14112.8	14204.9	14210.8
22.5°	12477.1	12509.8	12486.0	12453.4	12408.8	12382.1	12545.4	12696.8	12759.1	12821.5
25°	11286.7	11295.6	11313.4	11263.0	11209.5	11176.9	11298.6	11426.2	11524.2	11559.8
27.5°	10307.1	10339.7	10295.2	10218.0	10188.3	10149.7	10235.8	10327.8	10399.1	10449.6
30°	9354.1	9371.9	9380.9	9300.7	9229.5	9173.0	9244.3	9324.4	9351.2	9395.7
32.5°	8439.8	8469.5	8499.2	8401.2	8350.7	8297.3	8332.9	8383.4	8398.2	8401.2
35°	7528.4	7507.7	7480.9	7445.3	7406.7	7341.4	7377.0	7394.8	7406.7	7406.7
37.5°	6427.1	6444.9	6450.8	6382.5	6364.7	6320.2	6343.9	6346.9	6370.7	6385.5
40°	4862.6	4924.9	4883.4	4841.8	4847.8	4794.3	4785.4	4773.5	4827.0	4847.8
42.5°	2645.0	2751.9	2642.1	2677.7	2651.0	2621.3	2612.4	2627.2	2559.0	2502.6
45°	1329.9	1324.0	1347.8	1347.8	1371.5	1380.4	1359.6	1341.8	1332.9	1309.2
47.5°	1071.7	1053.9	1050.9	1065.7	1083.5	1095.4	1077.6	1068.7	1065.7	1080.6
50°	920.3	893.6	884.6	905.4	920.3	932.1	917.3	917.3	914.3	938.1
52.5°	801.5	774.8	774.8	816.4	828.2	840.1	831.2	831.2	831.2	857.9
55°	709.5	688.7	665.0	718.4	757.0	768.9	762.9	760.0	762.9	792.6
57.5°	638.3	626.4	611.5	623.4	682.8	697.6	694.7	694.7	700.6	724.3
60°	570.0	564.0	558.1	558.1	605.6	632.3	629.3	629.3	635.3	650.1
62.5°	507.6	501.7	495.8	501.7	519.5	561.1	561.1	564.0	572.9	578.9
65°	445.3	442.3	442.3	445.3	451.2	483.9	495.8	504.7	513.6	516.5
67.5°	385.9	383.0	385.9	391.9	391.9	406.7	433.4	442.3	451.2	451.2
70°	311.7	326.5	335.5	338.4	344.4	347.3	371.1	388.9	397.8	385.9
72.5°	169.2	193.0	290.9	299.8	302.8	305.8	323.6	344.4	350.3	228.6
75°	121.7	121.7	243.4	258.3	261.2	261.2	276.1	296.9	302.8	175.1
77.5°	80.2	77.2	169.2	187.0	213.7	172.2	225.6	249.4	255.3	145.5
80°	62.3	59.4	130.6	145.5	148.4	118.7	184.1	201.9	204.8	118.7
82.5°	47.5	44.5	95.0	106.9	115.8	77.2	130.6	154.4	160.3	103.9
85°	26.7	26.7	47.5	44.5	68.3	50.5	74.2	77.2	103.9	65.3
87.5°	8.9	11.9	20.8	20.8	23.7	20.8	29.7	29.7	32.7	23.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

22428.0
22629.8
22469.5
21875.8
20738.8
19171.4
17514.9
15822.8
14243.5
12857.1
11583.6
10464.4
9404.6
8436.8
7442.3
6447.9
4874.5
2529.3
1329.9
1092.5
967.8
887.6
810.4
742.2
662.0
587.8
522.5
451.2
341.4
195.9
172.2
142.5
106.9
106.9
62.3
17.8
0.0