

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: P524382

Luminaire Tested: **IFLD-S-SA3E-940-U-55**

Issue Date: 05/27/2021

Test Information

Test Method: LM-79-08
Report Number: P524382
Test Lab: INNOVATION CENTER(G2)
Issue Date: 05/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-940-U-55
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 55
distribution lens
Light Source: (48) 4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19282.5 lumens
Efficiency: N/A
Efficacy: 83.1 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): 232.1
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

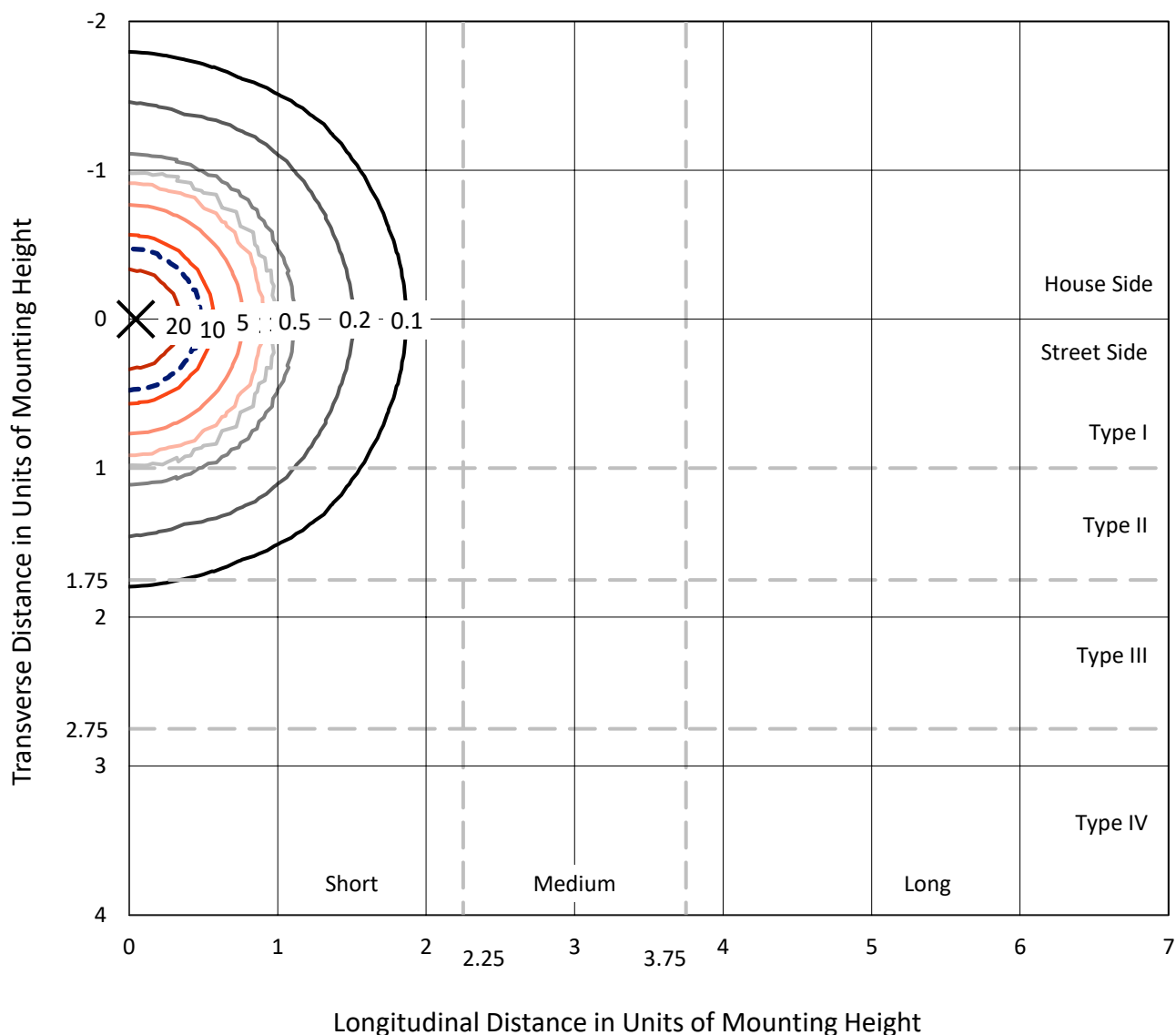
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

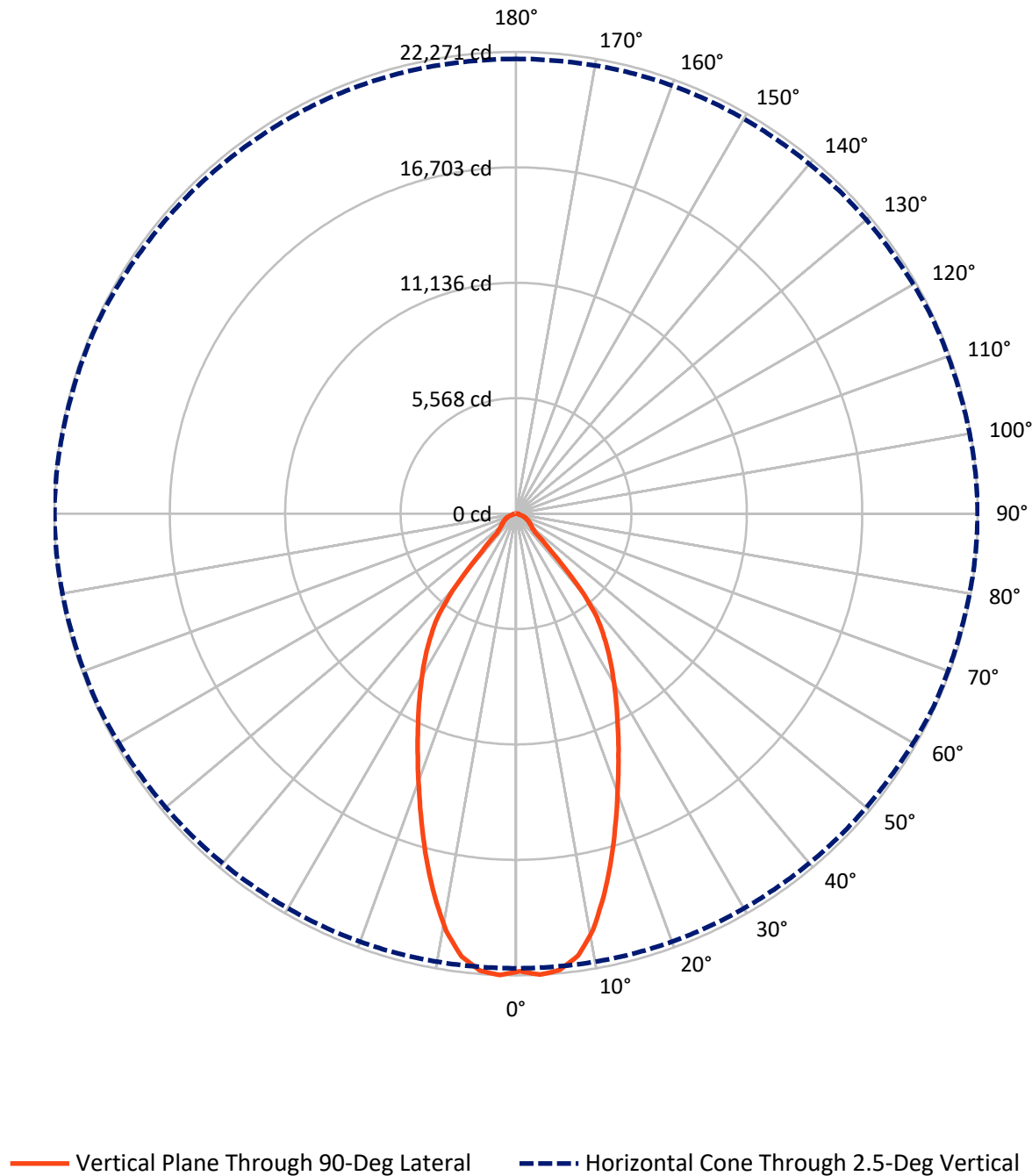


Based on 25 foot mounting height. Maximum calculated value = 35.3 fc

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	9641.2	0.0	9641.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9641.2	0.0	9641.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	19282.5	0.0	19282.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2034.8	10.6
10°-20°	4697.1	24.4
20°-30°	5157.0	26.7
30°-40°	4471.5	23.2
40°-50°	1471.3	7.6
50°-60°	659.7	3.4
60°-70°	466.3	2.4
70°-80°	253.2	1.3
80°-90°	71.8	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°	19282.5	100.0
0°-180°	19282.5	100.0

Coefficient of Utilization



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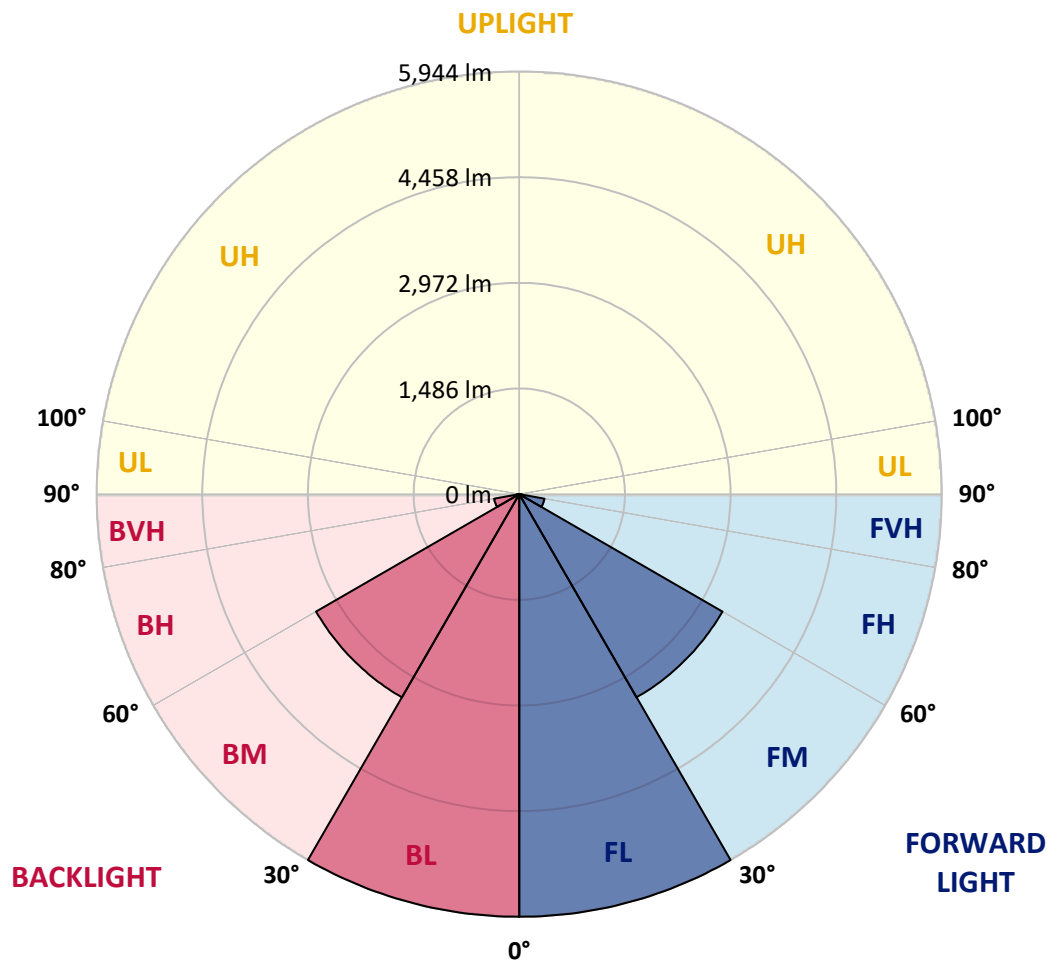
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5944.4	30.8			
FM	(30°-60°)	3301.2	17.1			
FH	(60°-80°)	359.7	1.9			G0/660
FVH	(80°-90°)	35.9	0.2			G1/100
BL	(0°-30°)	5944.4	30.8	B5		
BM	(30°-60°)	3301.2	17.1	B3/5000		
BH	(60°-80°)	359.7	1.9	B1/500		G0/660
BVH	(80°-90°)	35.9	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°	22072.4	22072.4	22072.4	22072.4	22072.4	22072.4	22072.4	22072.4	22072.4	22072.4
2.5°	21935.1	21932.2	21967.2	21984.8	21993.5	22034.4	22075.3	22183.4	22186.3	22250.6
5°	21905.9	21879.6	21902.9	21867.9	21876.7	21876.7	21929.2	22008.1	22037.3	22101.6
7.5°	21254.4	21248.5	21233.9	21195.9	21242.7	21210.5	21306.9	21377.1	21444.3	21476.4
10°	20039.0	19983.5	19983.5	19930.9	19977.6	19933.8	20091.6	20155.9	20269.8	20337.0
12.5°	18467.2	18443.8	18446.7	18423.4	18420.4	18359.1	18543.2	18598.7	18700.9	18800.2
15°	16790.2	16755.2	16787.3	16787.3	16761.0	16705.5	16901.2	16977.2	17126.2	17172.9
17.5°	15133.7	15119.1	15139.5	15148.3	15127.8	15075.3	15265.2	15431.7	15533.9	15533.9
20°	13614.5	13608.6	13634.9	13608.6	13588.2	13553.1	13728.4	13889.1	13979.7	13985.5
22.5°	12279.3	12311.5	12288.1	12256.0	12212.1	12185.8	12346.5	12495.5	12556.9	12618.2
25°	11107.8	11116.5	11134.1	11084.4	11031.8	10999.7	11119.5	11245.1	11341.5	11376.6
27.5°	10143.7	10175.8	10132.0	10056.0	10026.8	9988.8	10073.5	10164.1	10234.2	10283.9
30°	9205.8	9223.4	9232.1	9153.3	9083.1	9027.6	9097.7	9176.6	9202.9	9246.7
32.5°	8306.0	8335.2	8364.4	8268.0	8218.4	8165.8	8200.8	8250.5	8265.1	8268.0
35°	7409.1	7388.6	7362.3	7327.3	7289.3	7225.0	7260.1	7277.6	7289.3	7289.3
37.5°	6325.2	6342.7	6348.6	6281.4	6263.8	6220.0	6243.4	6246.3	6269.7	6284.3
40°	4785.5	4846.9	4806.0	4765.1	4770.9	4718.3	4709.6	4697.9	4750.5	4770.9
42.5°	2603.1	2708.3	2600.2	2635.2	2609.0	2579.7	2571.0	2585.6	2518.4	2462.9
45°	1308.9	1303.0	1326.4	1326.4	1349.8	1358.5	1338.1	1320.5	1311.8	1288.4
47.5°	1054.7	1037.2	1034.2	1048.8	1066.4	1078.1	1060.5	1051.8	1048.8	1063.4
50°	905.7	879.4	870.6	891.1	905.7	917.4	902.8	902.8	899.8	923.2
52.5°	788.8	762.5	762.5	803.4	815.1	826.8	818.0	818.0	818.0	844.3
55°	698.3	677.8	654.4	707.0	745.0	756.7	750.8	747.9	750.8	780.1
57.5°	628.1	616.4	601.8	613.5	672.0	686.6	683.6	683.6	689.5	712.9
60°	560.9	555.1	549.3	549.3	596.0	622.3	619.4	619.4	625.2	639.8
62.5°	499.6	493.7	487.9	493.7	511.3	552.2	552.2	555.1	563.9	569.7
65°	438.2	435.3	435.3	438.2	444.1	476.2	487.9	496.7	505.4	508.4
67.5°	379.8	376.9	379.8	385.6	385.6	400.3	426.5	435.3	444.1	444.1
70°	306.8	321.4	330.1	333.1	338.9	341.8	365.2	382.7	391.5	379.8
72.5°	166.5	189.9	286.3	295.1	298.0	300.9	318.5	338.9	344.7	225.0
75°	119.8	119.8	239.6	254.2	257.1	257.1	271.7	292.2	298.0	172.4
77.5°	78.9	76.0	166.5	184.1	210.4	169.5	222.0	245.4	251.3	143.2
80°	61.4	58.4	128.5	143.2	146.1	116.9	181.1	198.7	201.6	116.9
82.5°	46.7	43.8	93.5	105.2	113.9	76.0	128.5	151.9	157.8	102.3
85°	26.3	26.3	46.7	43.8	67.2	49.7	73.0	76.0	102.3	64.3
87.5°	8.8	11.7	20.5	20.5	23.4	20.5	29.2	29.2	32.1	23.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

22072.4
22271.1
22113.3
21529.0
20410.0
18867.4
17237.2
15571.9
14017.7
12653.3
11399.9
10298.5
9255.5
8303.1
7324.4
6345.6
4797.2
2489.2
1308.9
1075.1
952.4
873.5
797.6
730.4
651.5
578.5
514.2
444.1
336.0
192.8
169.5
140.2
105.2
105.2
61.4
17.5
0.0