

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: P524342

Luminaire Tested: **IFLD-S-SA3D-935-U-55**

Issue Date: 05/27/2021



Test Information

Test Method: LM-79-08
Report Number: P524342
Test Lab: INNOVATION CENTER(G2)
Issue Date: 05/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-935-U-55
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 55
distribution lens
Light Source: (48) 3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15310.3 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

Input Watts (W): 184.1
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

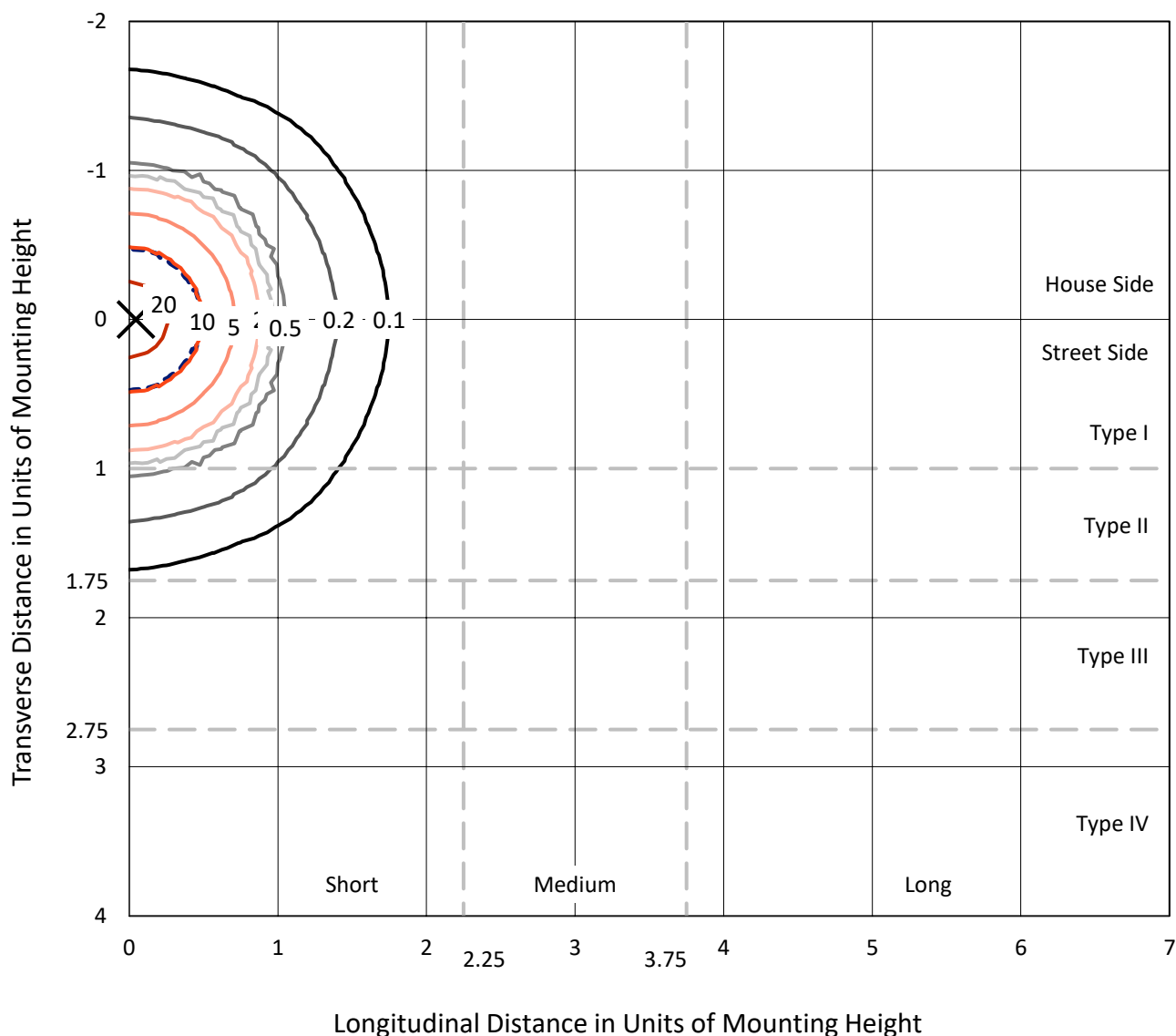
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

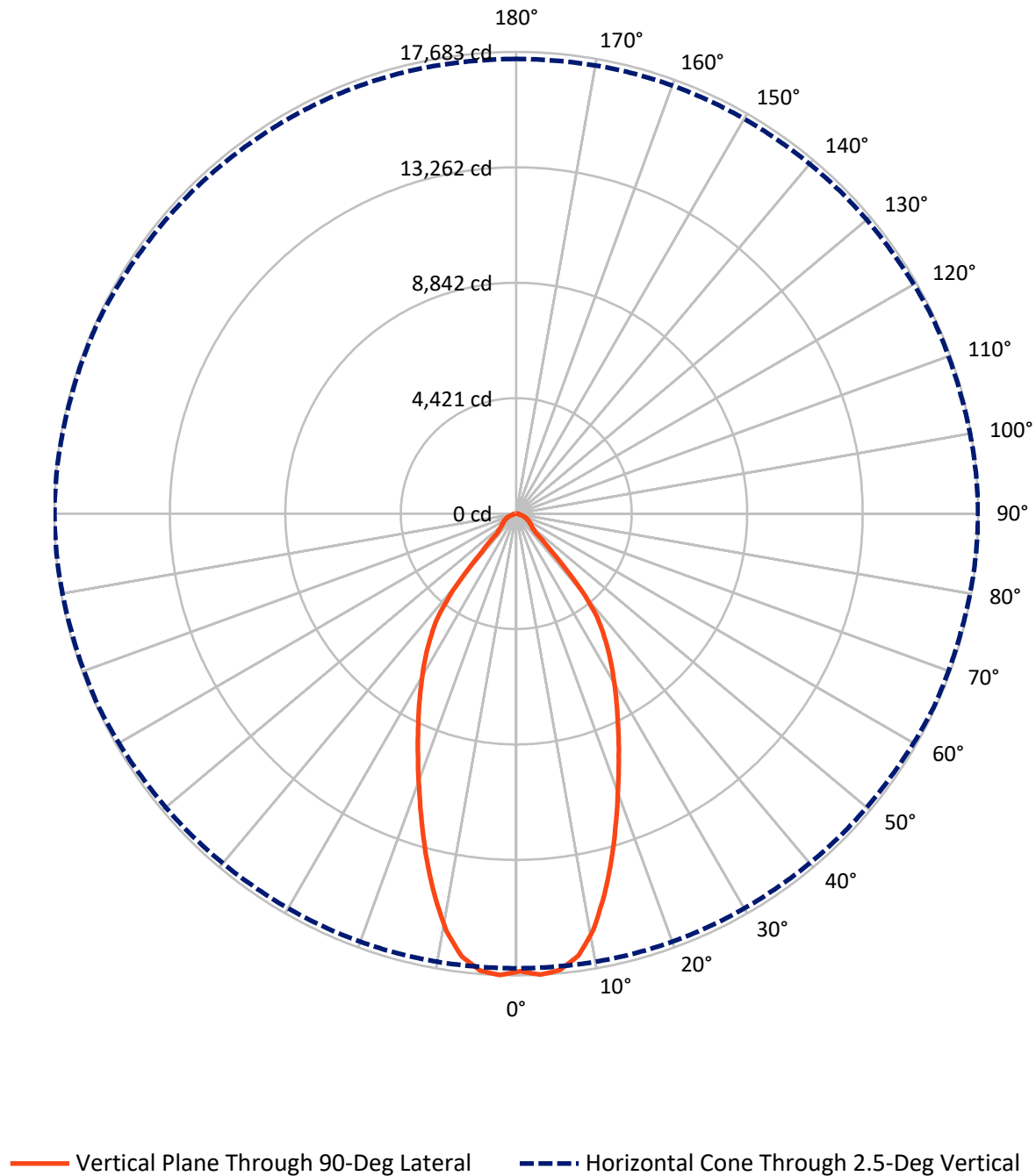


Based on 25 foot mounting height. Maximum calculated value = 28 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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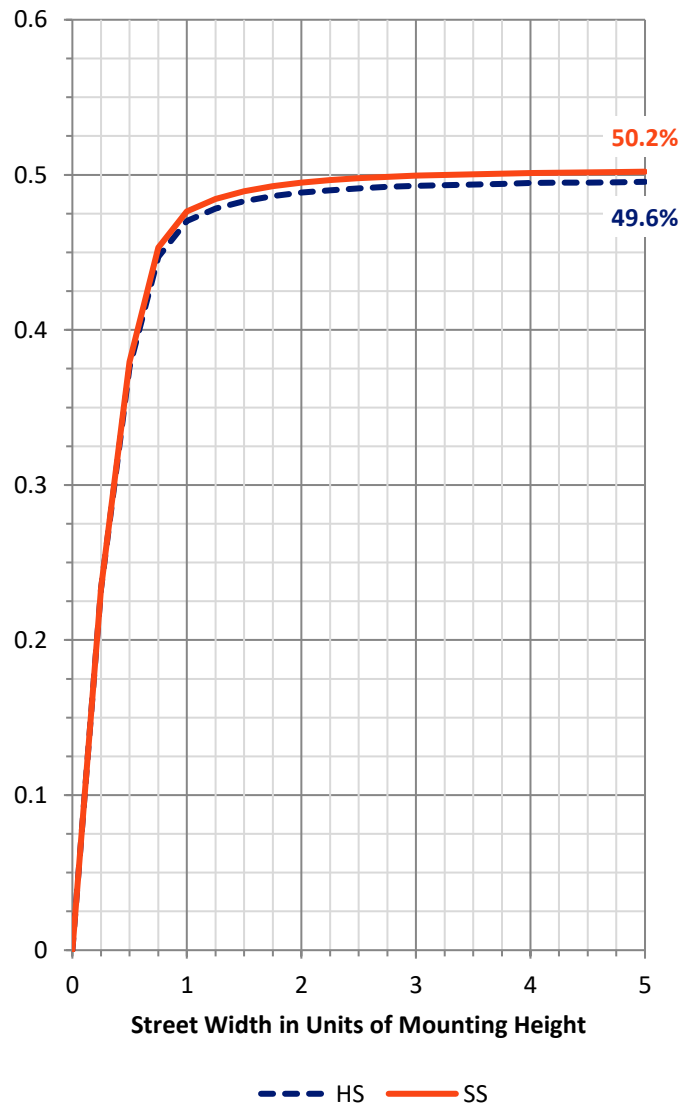
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7655.1	0.0	7655.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7655.1	0.0	7655.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	15310.3	0.0	15310.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1615.6	10.6
10°-20°	3729.5	24.4
20°-30°	4094.6	26.7
30°-40°	3550.3	23.2
40°-50°	1168.2	7.6
50°-60°	523.8	3.4
60°-70°	370.2	2.4
70°-80°	201.0	1.3
80°-90°	57.0	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°	15310.3	100.0
0°-180°	15310.3	100.0

Coefficient of Utilization



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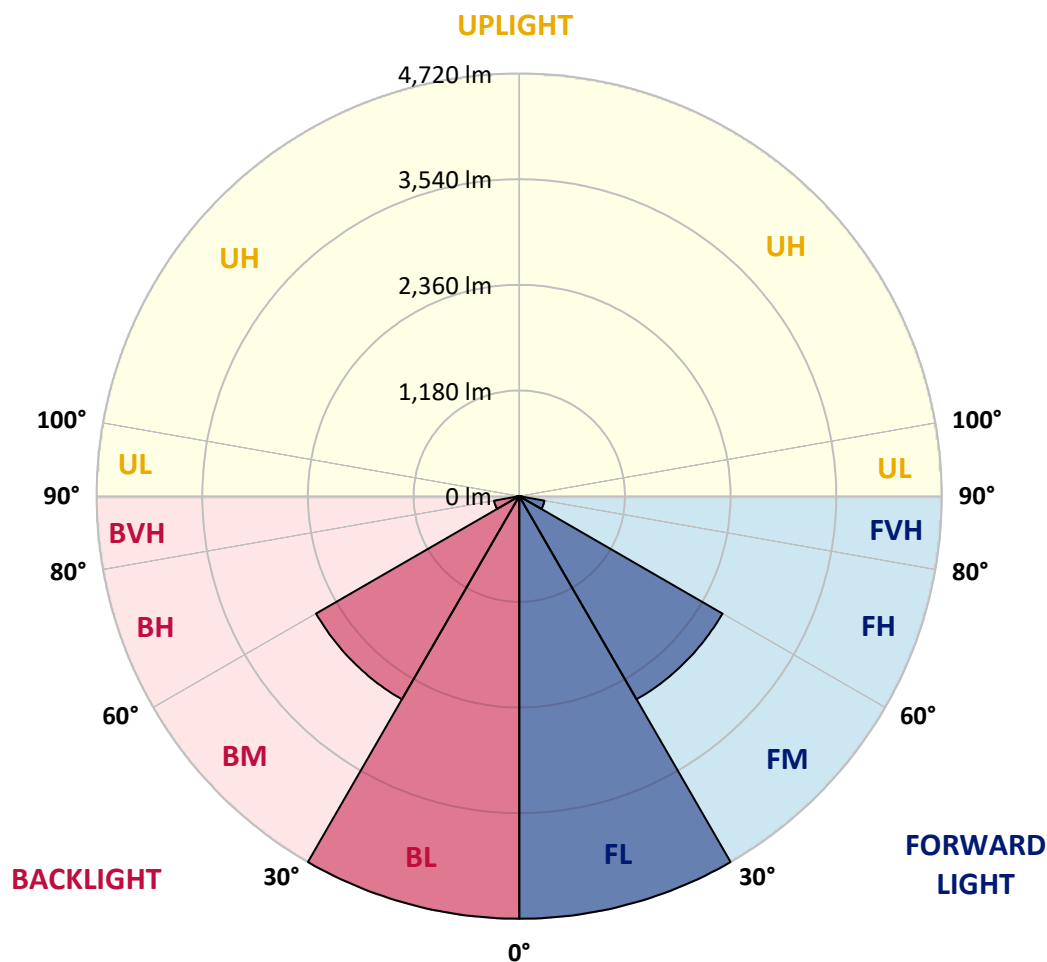
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4719.8	30.8			
FM	(30°-60°)	2621.2	17.1			
FH	(60°-80°)	285.6	1.9			G0/660
FVH	(80°-90°)	28.5	0.2			G1/100
BL	(0°-30°)	4719.8	30.8	B4/5000		
BM	(30°-60°)	2621.2	17.1	B3/5000		
BH	(60°-80°)	285.6	1.9	B1/500		G0/660
BVH	(80°-90°)	28.5	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	17525.5	17525.5	17525.5	17525.5	17525.5	17525.5	17525.5	17525.5	17525.5	17525.5
2.5°	17416.4	17414.1	17442.0	17455.9	17462.8	17495.3	17527.8	17613.6	17615.9	17667.0
5°	17393.2	17372.4	17390.9	17363.1	17370.0	17370.0	17411.8	17474.4	17497.6	17548.7
7.5°	16875.9	16871.3	16859.7	16829.5	16866.7	16841.1	16917.7	16973.4	17026.7	17052.2
10°	15910.9	15866.9	15866.9	15825.1	15862.2	15827.4	15952.7	16003.7	16094.2	16147.6
12.5°	14662.9	14644.4	14646.7	14628.1	14625.8	14577.1	14723.2	14767.3	14848.5	14927.4
15°	13331.4	13303.6	13329.1	13329.1	13308.2	13264.1	13419.6	13479.9	13598.2	13635.3
17.5°	12016.1	12004.5	12020.8	12027.7	12011.5	11969.7	12120.5	12252.7	12333.9	12333.9
20°	10809.9	10805.2	10826.1	10805.2	10789.0	10761.2	10900.4	11027.9	11099.8	11104.5
22.5°	9749.8	9775.3	9756.7	9731.2	9696.4	9675.5	9803.1	9921.4	9970.1	10018.9
25°	8819.6	8826.5	8840.4	8801.0	8759.3	8733.7	8828.8	8928.6	9005.1	9033.0
27.5°	8054.1	8079.6	8044.8	7984.5	7961.3	7931.1	7998.4	8070.3	8126.0	8165.4
30°	7309.4	7323.3	7330.3	7267.7	7212.0	7167.9	7223.6	7286.2	7307.1	7341.9
32.5°	6595.0	6618.2	6641.4	6564.8	6525.4	6483.6	6511.4	6550.9	6562.5	6564.8
35°	5882.8	5866.6	5845.7	5817.9	5787.7	5736.7	5764.5	5778.4	5787.7	5787.7
37.5°	5022.2	5036.1	5040.7	4987.4	4973.5	4938.7	4957.2	4959.6	4978.1	4989.7
40°	3799.7	3848.4	3815.9	3783.5	3788.1	3746.3	3739.4	3730.1	3771.9	3788.1
42.5°	2066.9	2150.4	2064.5	2092.4	2071.5	2048.3	2041.4	2052.9	1999.6	1955.5
45°	1039.2	1034.6	1053.2	1053.2	1071.7	1078.7	1062.4	1048.5	1041.6	1023.0
47.5°	837.4	823.5	821.2	832.8	846.7	856.0	842.1	835.1	832.8	844.4
50°	719.1	698.2	691.3	707.5	719.1	728.4	716.8	716.8	714.5	733.0
52.5°	626.3	605.4	605.4	637.9	647.2	656.5	649.5	649.5	649.5	670.4
55°	554.4	538.2	519.6	561.4	591.5	600.8	596.2	593.8	596.2	619.4
57.5°	498.7	489.5	477.9	487.1	533.5	545.1	542.8	542.8	547.5	566.0
60°	445.4	440.7	436.1	436.1	473.2	494.1	491.8	491.8	496.4	508.0
62.5°	396.7	392.0	387.4	392.0	406.0	438.4	438.4	440.7	447.7	452.3
65°	348.0	345.6	345.6	348.0	352.6	378.1	387.4	394.4	401.3	403.6
67.5°	301.6	299.2	301.6	306.2	306.2	317.8	338.7	345.6	352.6	352.6
70°	243.6	255.2	262.1	264.4	269.1	271.4	290.0	303.9	310.8	301.6
72.5°	132.2	150.8	227.3	234.3	236.6	238.9	252.8	269.1	273.7	178.6
75°	95.1	95.1	190.2	201.8	204.1	204.1	215.7	232.0	236.6	136.9
77.5°	62.6	60.3	132.2	146.1	167.0	134.5	176.3	194.9	199.5	113.7
80°	48.7	46.4	102.1	113.7	116.0	92.8	143.8	157.7	160.1	92.8
82.5°	37.1	34.8	74.2	83.5	90.5	60.3	102.1	120.6	125.3	81.2
85°	20.9	20.9	37.1	34.8	53.4	39.4	58.0	60.3	81.2	51.0
87.5°	7.0	9.3	16.2	16.2	18.6	16.2	23.2	23.2	25.5	18.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

17525.5
17683.2
17557.9
17094.0
16205.5
14980.7
13686.3
12364.1
11130.0
10046.7
9051.5
8177.0
7348.9
6592.6
5815.5
5038.4
3809.0
1976.4
1039.2
853.7
756.2
693.6
633.3
579.9
517.3
459.3
408.3
352.6
266.8
153.1
134.5
111.3
83.5
83.5
48.7
13.9
0.0