

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: P524375

Luminaire Tested: **IFLD-S-SA2C-940-U-55**

Issue Date: 05/27/2021

Test Information

Test Method: LM-79-08
Report Number: P524375
Test Lab: INNOVATION CENTER(G2)
Issue Date: 05/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-940-U-55
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 55
distribution lens
Light Source: (32) 4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10160.8 lumens
Efficiency: N/A
Efficacy: 93.9 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): 108.2
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

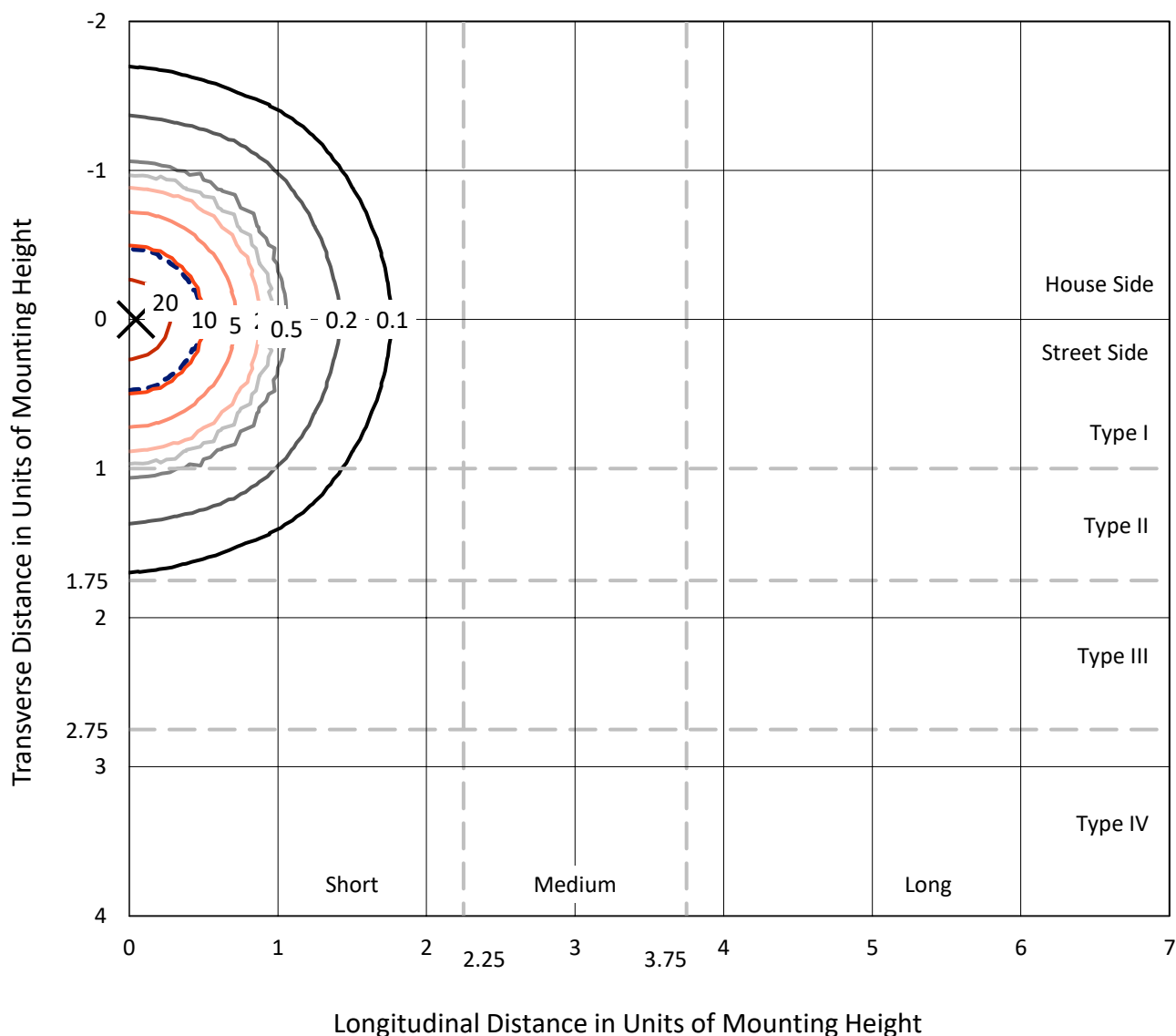
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

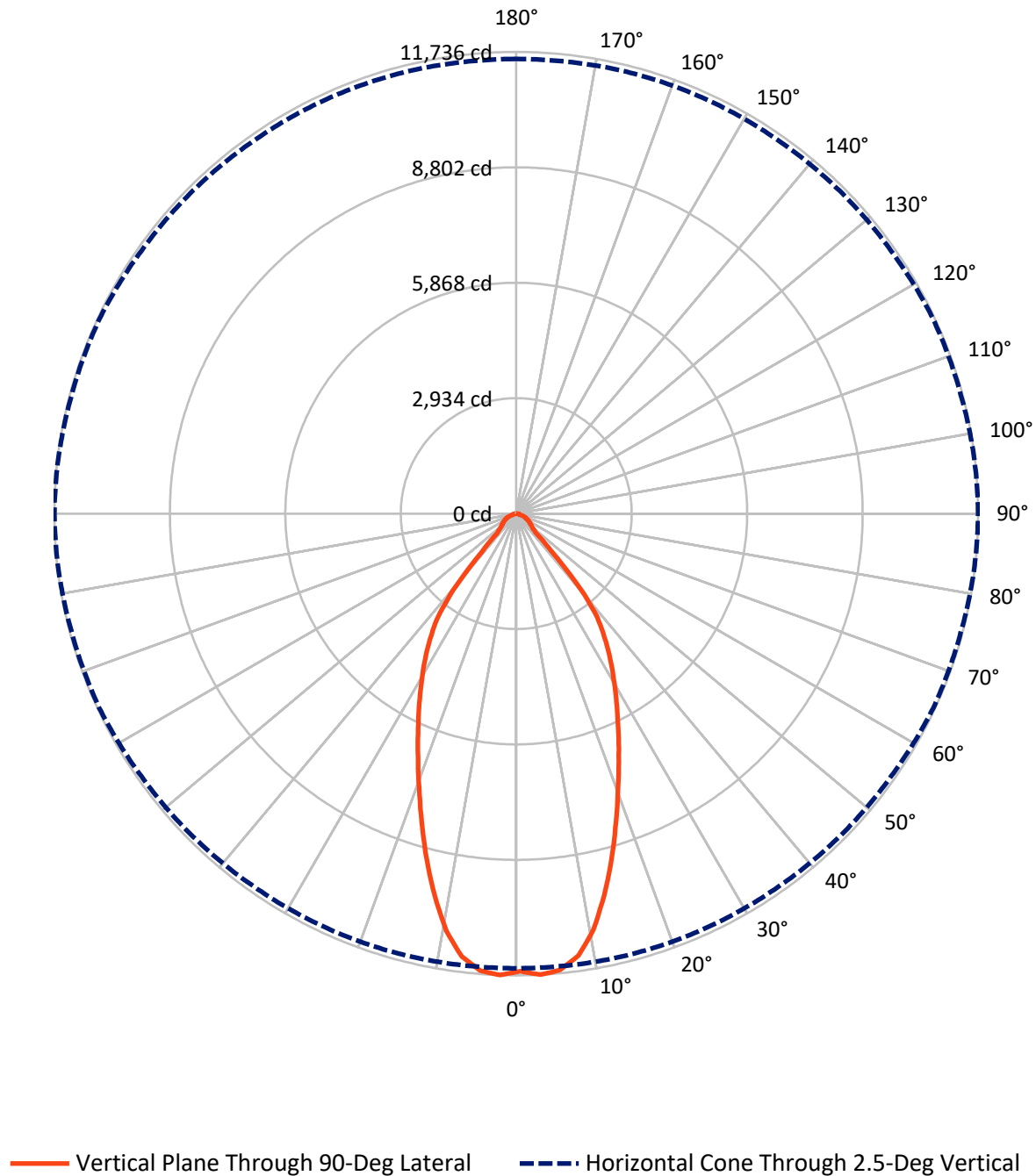


Based on 20 foot mounting height. Maximum calculated value = 29.1 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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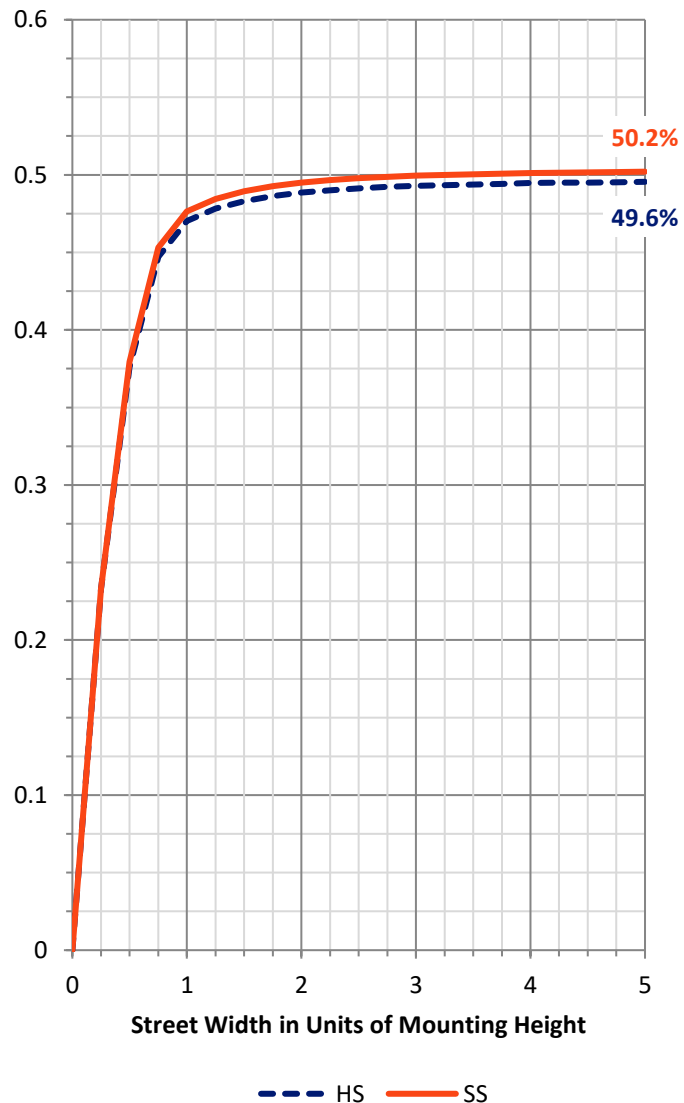
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5080.4	0.0	5080.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5080.4	0.0	5080.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	10160.8	0.0	10160.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1072.2	10.6
10°-20°	2475.1	24.4
20°-30°	2717.4	26.7
30°-40°	2356.2	23.2
40°-50°	775.3	7.6
50°-60°	347.6	3.4
60°-70°	245.7	2.4
70°-80°	133.4	1.3
80°-90°	37.8	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°	10160.8	100.0
0°-180°	10160.8	100.0

Coefficient of Utilization



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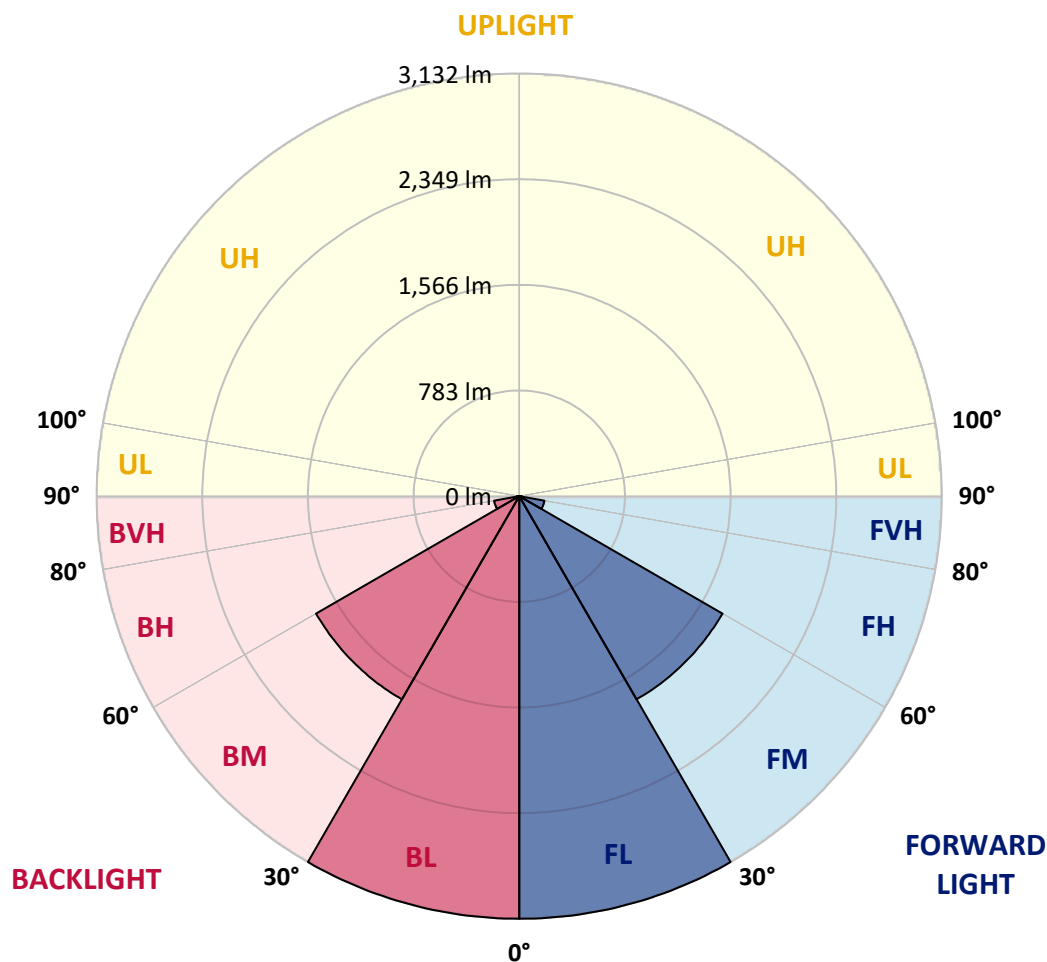
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3132.4	30.8			
FM	(30°-60°)	1739.6	17.1			
FH	(60°-80°)	189.6	1.9			G0/660
FVH	(80°-90°)	18.9	0.2			G1/100
BL	(0°-30°)	3132.4	30.8	B4/5000		
BM	(30°-60°)	1739.6	17.1	B2/2500		
BH	(60°-80°)	189.6	1.9	B1/500		G0/660
BVH	(80°-90°)	18.9	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11630.9	11630.9	11630.9	11630.9	11630.9	11630.9	11630.9	11630.9	11630.9	11630.9
2.5°	11558.5	11557.0	11575.5	11584.7	11589.3	11610.9	11632.4	11689.4	11690.9	11724.8
5°	11543.1	11529.3	11541.6	11523.1	11527.7	11527.7	11555.4	11597.0	11612.4	11646.3
7.5°	11199.8	11196.7	11189.0	11169.0	11193.7	11176.7	11227.5	11264.5	11299.9	11316.8
10°	10559.4	10530.1	10530.1	10502.4	10527.1	10504.0	10587.1	10621.0	10681.0	10716.4
12.5°	9731.1	9718.8	9720.4	9708.1	9706.5	9674.2	9771.2	9800.4	9854.3	9906.6
15°	8847.5	8829.0	8845.9	8845.9	8832.1	8802.8	8906.0	8946.0	9024.5	9049.2
17.5°	7974.6	7966.9	7977.7	7982.3	7971.5	7943.8	8043.9	8131.6	8185.5	8185.5
20°	7174.0	7171.0	7184.8	7171.0	7160.2	7141.7	7234.1	7318.8	7366.5	7369.6
22.5°	6470.5	6487.4	6475.1	6458.2	6435.1	6421.2	6505.9	6584.4	6616.7	6649.1
25°	5853.2	5857.8	5867.0	5840.8	5813.1	5796.2	5859.3	5925.5	5976.3	5994.8
27.5°	5345.1	5362.1	5339.0	5298.9	5283.5	5263.5	5308.2	5355.9	5392.9	5419.0
30°	4850.9	4860.2	4864.8	4823.2	4786.3	4757.0	4794.0	4835.6	4849.4	4872.5
32.5°	4376.8	4392.2	4407.6	4356.8	4330.6	4302.9	4321.4	4347.5	4355.2	4356.8
35°	3904.2	3893.4	3879.5	3861.1	3841.0	3807.2	3825.6	3834.9	3841.0	3841.0
37.5°	3333.0	3342.2	3345.3	3309.9	3300.7	3277.6	3289.9	3291.4	3303.8	3311.5
40°	2521.7	2554.0	2532.5	2510.9	2514.0	2486.3	2481.7	2475.5	2503.2	2514.0
42.5°	1371.7	1427.1	1370.2	1388.6	1374.8	1359.4	1354.8	1362.5	1327.0	1297.8
45°	689.7	686.6	698.9	698.9	711.2	715.9	705.1	695.9	691.2	678.9
47.5°	555.8	546.5	545.0	552.7	561.9	568.1	558.8	554.2	552.7	560.4
50°	477.2	463.4	458.8	469.5	477.2	483.4	475.7	475.7	474.2	486.5
52.5°	415.7	401.8	401.8	423.4	429.5	435.7	431.1	431.1	431.1	444.9
55°	367.9	357.2	344.8	372.6	392.6	398.7	395.7	394.1	395.7	411.0
57.5°	331.0	324.8	317.1	323.3	354.1	361.8	360.2	360.2	363.3	375.6
60°	295.6	292.5	289.4	289.4	314.1	327.9	326.4	326.4	329.5	337.1
62.5°	263.3	260.2	257.1	260.2	269.4	291.0	291.0	292.5	297.1	300.2
65°	230.9	229.4	229.4	230.9	234.0	250.9	257.1	261.7	266.3	267.9
67.5°	200.1	198.6	200.1	203.2	203.2	210.9	224.8	229.4	234.0	234.0
70°	161.6	169.3	174.0	175.5	178.6	180.1	192.4	201.7	206.3	200.1
72.5°	87.8	100.1	150.9	155.5	157.0	158.6	167.8	178.6	181.7	118.5
75°	63.1	63.1	126.2	133.9	135.5	135.5	143.2	153.9	157.0	90.8
77.5°	41.6	40.0	87.8	97.0	110.8	89.3	117.0	129.3	132.4	75.4
80°	32.3	30.8	67.7	75.4	77.0	61.6	95.4	104.7	106.2	61.6
82.5°	24.6	23.1	49.3	55.4	60.0	40.0	67.7	80.1	83.1	53.9
85°	13.9	13.9	24.6	23.1	35.4	26.2	38.5	40.0	53.9	33.9
87.5°	4.6	6.2	10.8	10.8	12.3	10.8	15.4	15.4	16.9	12.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

11630.9
11735.6
11652.4
11344.5
10754.9
9942.1
9083.0
8205.5
7386.5
6667.6
6007.1
5426.7
4877.1
4375.2
3859.5
3343.8
2527.9
1311.6
689.7
566.5
501.9
460.3
420.3
384.9
343.3
304.8
271.0
234.0
177.0
101.6
89.3
73.9
55.4
55.4
32.3
9.2
0.0