

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: P524376

Luminaire Tested: **IFLD-S-SA2D-940-U-55**

Issue Date: 05/27/2021

Test Information

Test Method: LM-79-08
Report Number: P524376
Test Lab: INNOVATION CENTER(G2)
Issue Date: 05/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-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: 11180.3 lumens
Efficiency: N/A
Efficacy: 90.2 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): 123.9
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

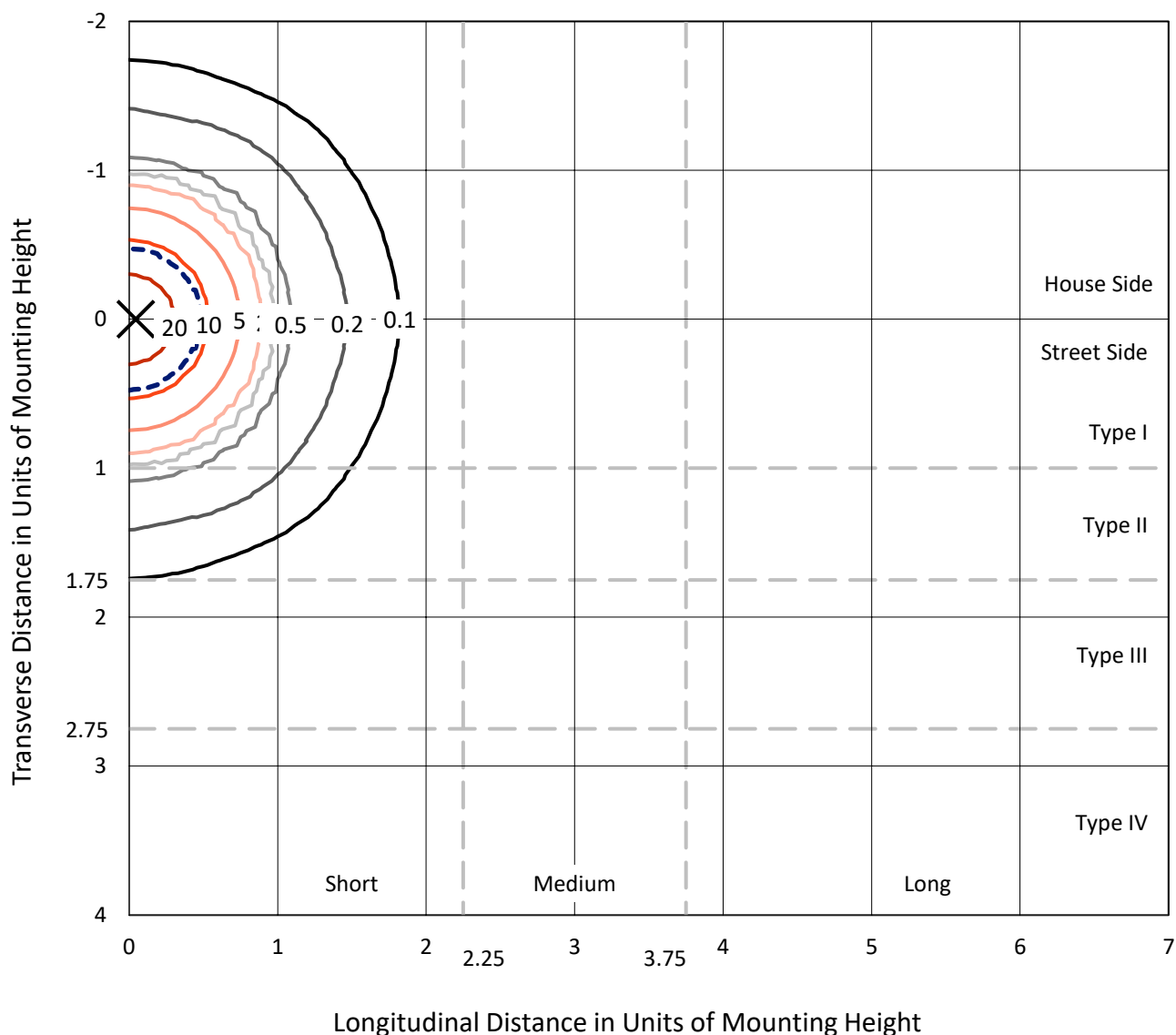
REPORT NUMBER: P524376

CATALOG NUMBER: IFLD-S-SA2D-940-U-55

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

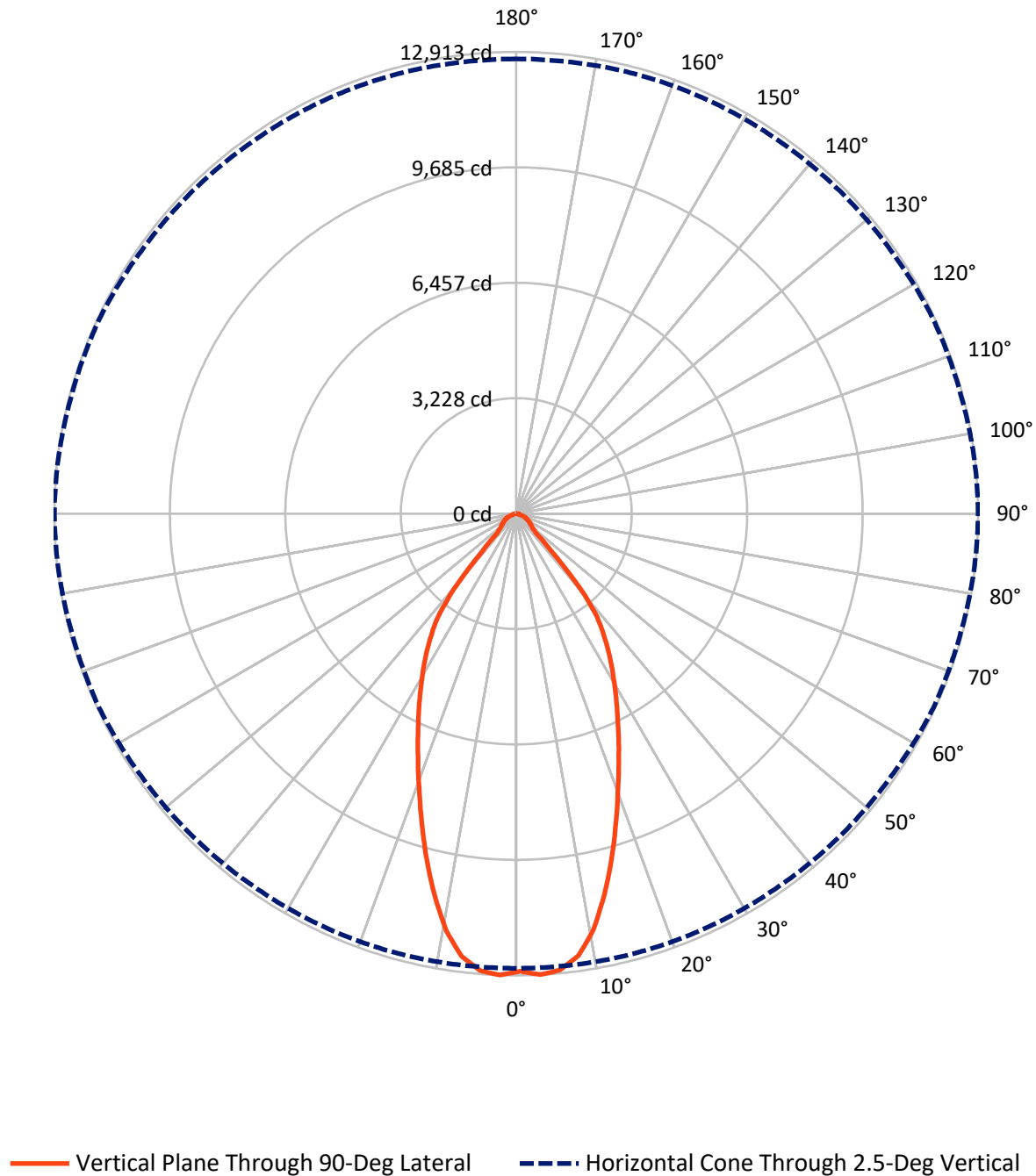


Based on 20 foot mounting height. Maximum calculated value = 32 fc

Type V - Short - N/A

REPORT NUMBER: P524376
CATALOG NUMBER: IFLD-S-SA2D-940-U-55

Luminous Intensity Polar Plot



REPORT NUMBER: P524376

CATALOG NUMBER: IFLD-S-SA2D-940-U-55

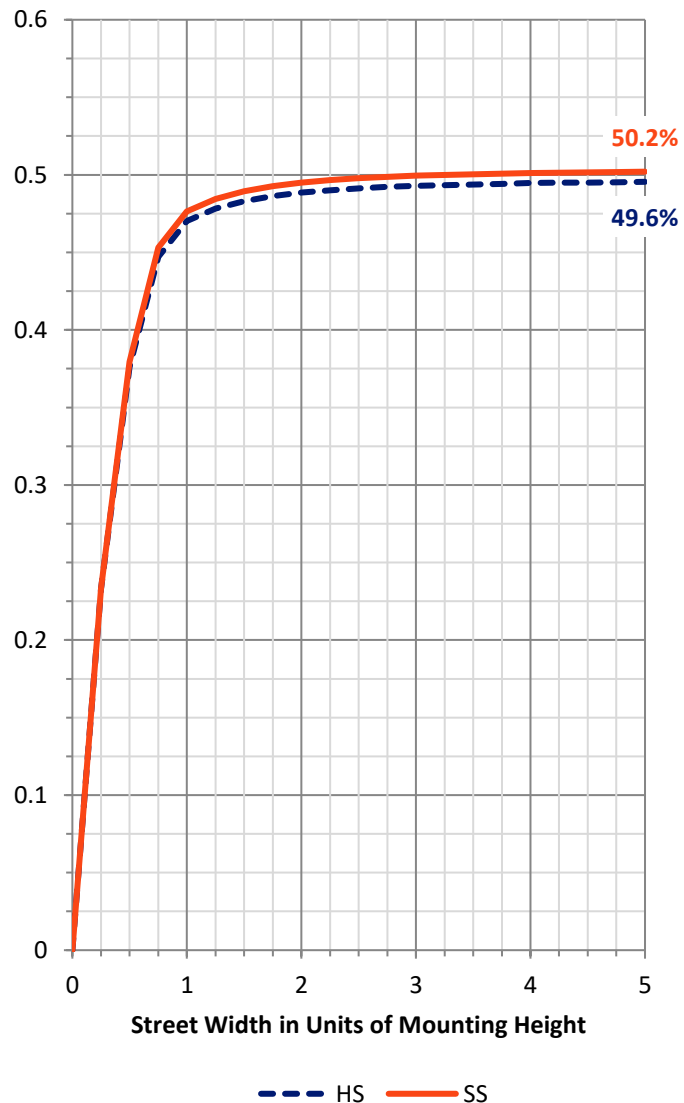
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5590.1	0.0	5590.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5590.1	0.0	5590.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	11180.3	0.0	11180.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1179.8	10.6
10°-20°	2723.4	24.4
20°-30°	2990.1	26.7
30°-40°	2592.6	23.2
40°-50°	853.1	7.6
50°-60°	382.5	3.4
60°-70°	270.4	2.4
70°-80°	146.8	1.3
80°-90°	41.6	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°	11180.3	100.0
0°-180°	11180.3	100.0

Coefficient of Utilization



REPORT NUMBER: P524376

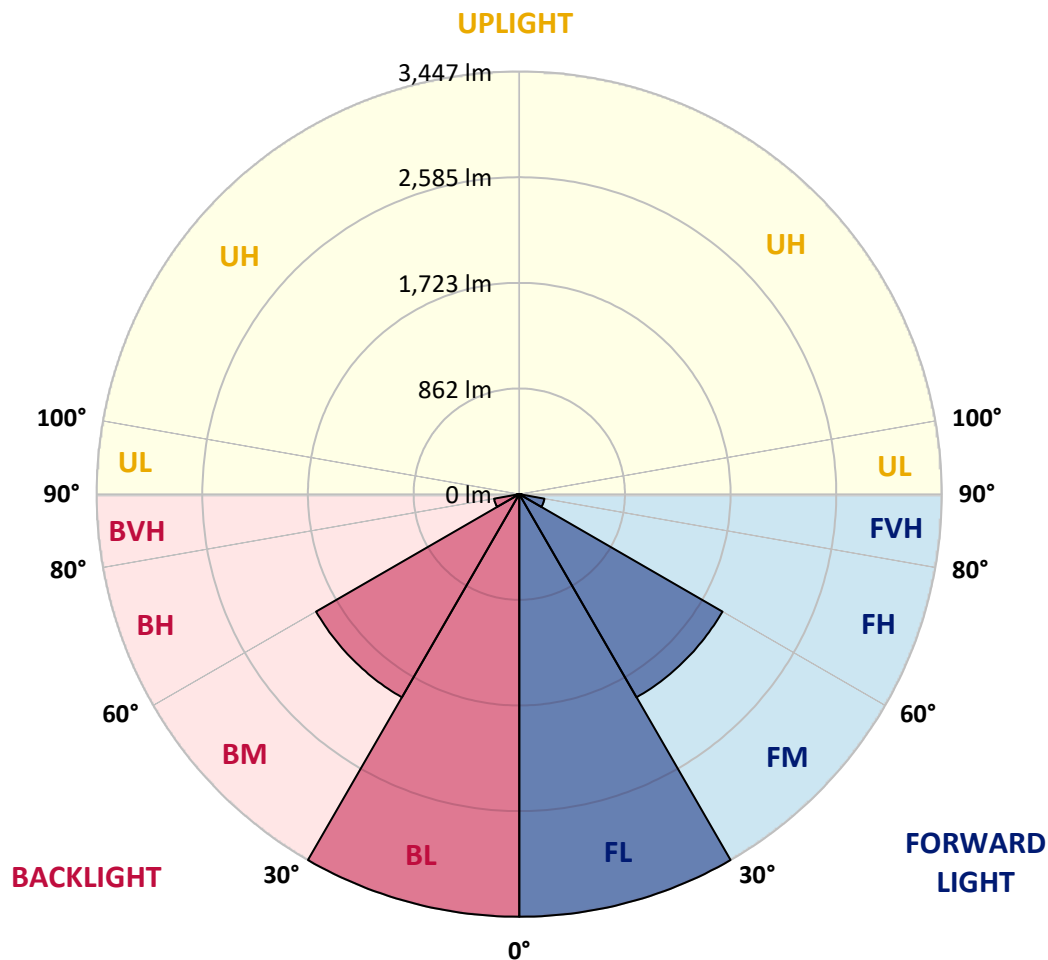
CATALOG NUMBER: IFLD-S-SA2D-940-U-55

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3446.7	30.8			
FM	(30°-60°)	1914.1	17.1			
FH	(60°-80°)	208.6	1.9			G0/660
FVH	(80°-90°)	20.8	0.2			G1/100
BL	(0°-30°)	3446.7	30.8	B4/5000		
BM	(30°-60°)	1914.1	17.1	B2/2500		
BH	(60°-80°)	208.6	1.9	B1/500		G0/660
BVH	(80°-90°)	20.8	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



REPORT NUMBER: P524376

CATALOG NUMBER: IFLD-S-SA2D-940-U-55

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12797.9	12797.9	12797.9	12797.9	12797.9	12797.9	12797.9	12797.9	12797.9	12797.9
2.5°	12718.3	12716.6	12736.9	12747.1	12752.1	12775.9	12799.6	12862.3	12864.0	12901.2
5°	12701.3	12686.1	12699.6	12679.3	12684.4	12684.4	12714.9	12760.6	12777.6	12814.8
7.5°	12323.6	12320.2	12311.7	12289.7	12316.8	12298.2	12354.1	12394.7	12433.7	12452.3
10°	11618.9	11586.7	11586.7	11556.2	11583.3	11557.9	11649.4	11686.6	11752.7	11791.7
12.5°	10707.5	10694.0	10695.7	10682.1	10680.4	10644.9	10751.6	10783.8	10843.1	10900.6
15°	9735.2	9714.9	9733.5	9733.5	9718.3	9686.1	9799.6	9843.6	9930.0	9957.1
17.5°	8774.7	8766.3	8778.1	8783.2	8771.3	8740.8	8851.0	8947.5	9006.8	9006.8
20°	7893.9	7890.5	7905.7	7890.5	7878.6	7858.3	7959.9	8053.1	8105.6	8109.0
22.5°	7119.7	7138.4	7124.8	7106.2	7080.8	7065.5	7158.7	7245.1	7280.7	7316.2
25°	6440.4	6445.5	6455.7	6426.9	6396.4	6377.8	6447.2	6520.1	6576.0	6596.3
27.5°	5881.4	5900.1	5874.7	5830.6	5813.7	5791.7	5840.8	5893.3	5934.0	5962.7
30°	5337.7	5347.8	5352.9	5307.2	5266.5	5234.3	5275.0	5320.7	5336.0	5361.4
32.5°	4815.9	4832.9	4849.8	4793.9	4765.1	4734.6	4755.0	4783.7	4792.2	4793.9
35°	4295.9	4284.0	4268.8	4248.5	4226.4	4189.2	4209.5	4219.7	4226.4	4226.4
37.5°	3667.4	3677.6	3681.0	3642.0	3631.9	3606.4	3620.0	3621.7	3635.2	3643.7
40°	2774.7	2810.3	2786.6	2762.9	2766.2	2735.7	2730.7	2723.9	2754.4	2766.2
42.5°	1509.3	1570.3	1507.6	1528.0	1512.7	1495.8	1490.7	1499.2	1460.2	1428.0
45°	758.9	755.5	769.1	769.1	782.6	787.7	775.8	765.7	760.6	747.0
47.5°	611.5	601.4	599.7	608.1	618.3	625.1	614.9	609.8	608.1	616.6
50°	525.1	509.9	504.8	516.7	525.1	531.9	523.4	523.4	521.7	535.3
52.5°	457.4	442.1	442.1	465.8	472.6	479.4	474.3	474.3	474.3	489.6
55°	404.9	393.0	379.4	409.9	432.0	438.7	435.3	433.7	435.3	452.3
57.5°	364.2	357.4	349.0	355.7	389.6	398.1	396.4	396.4	399.8	413.3
60°	325.2	321.9	318.5	318.5	345.6	360.8	359.1	359.1	362.5	371.0
62.5°	289.7	286.3	282.9	286.3	296.4	320.2	320.2	321.9	326.9	330.3
65°	254.1	252.4	252.4	254.1	257.5	276.1	282.9	288.0	293.1	294.7
67.5°	220.2	218.5	220.2	223.6	223.6	232.1	247.3	252.4	257.5	257.5
70°	177.9	186.3	191.4	193.1	196.5	198.2	211.7	221.9	227.0	220.2
72.5°	96.6	110.1	166.0	171.1	172.8	174.5	184.6	196.5	199.9	130.4
75°	69.5	69.5	138.9	147.4	149.1	149.1	157.5	169.4	172.8	99.9
77.5°	45.7	44.0	96.6	106.7	122.0	98.2	128.7	142.3	145.7	83.0
80°	35.6	33.9	74.5	83.0	84.7	67.8	105.0	115.2	116.9	67.8
82.5°	27.1	25.4	54.2	61.0	66.1	44.0	74.5	88.1	91.5	59.3
85°	15.2	15.2	27.1	25.4	39.0	28.8	42.3	44.0	59.3	37.3
87.5°	5.1	6.8	11.9	11.9	13.6	11.9	16.9	16.9	18.6	13.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

12797.9
12913.1
12821.6
12482.8
11834.0
10939.6
9994.4
9028.8
8127.6
7336.6
6609.8
5971.2
5366.5
4814.2
4246.8
3679.3
2781.5
1443.3
758.9
623.4
552.2
506.5
462.5
423.5
377.8
335.4
298.1
257.5
194.8
111.8
98.2
81.3
61.0
61.0
35.6
10.2
0.0