

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: P524381

Luminaire Tested: **IFLD-S-SA3D-940-U-55**

Issue Date: 05/27/2021

Test Information

Test Method: LM-79-08
Report Number: P524381
Test Lab: INNOVATION CENTER(G2)
Issue Date: 05/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-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: 16661.5 lumens
Efficiency: N/A
Efficacy: 90.5 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): 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

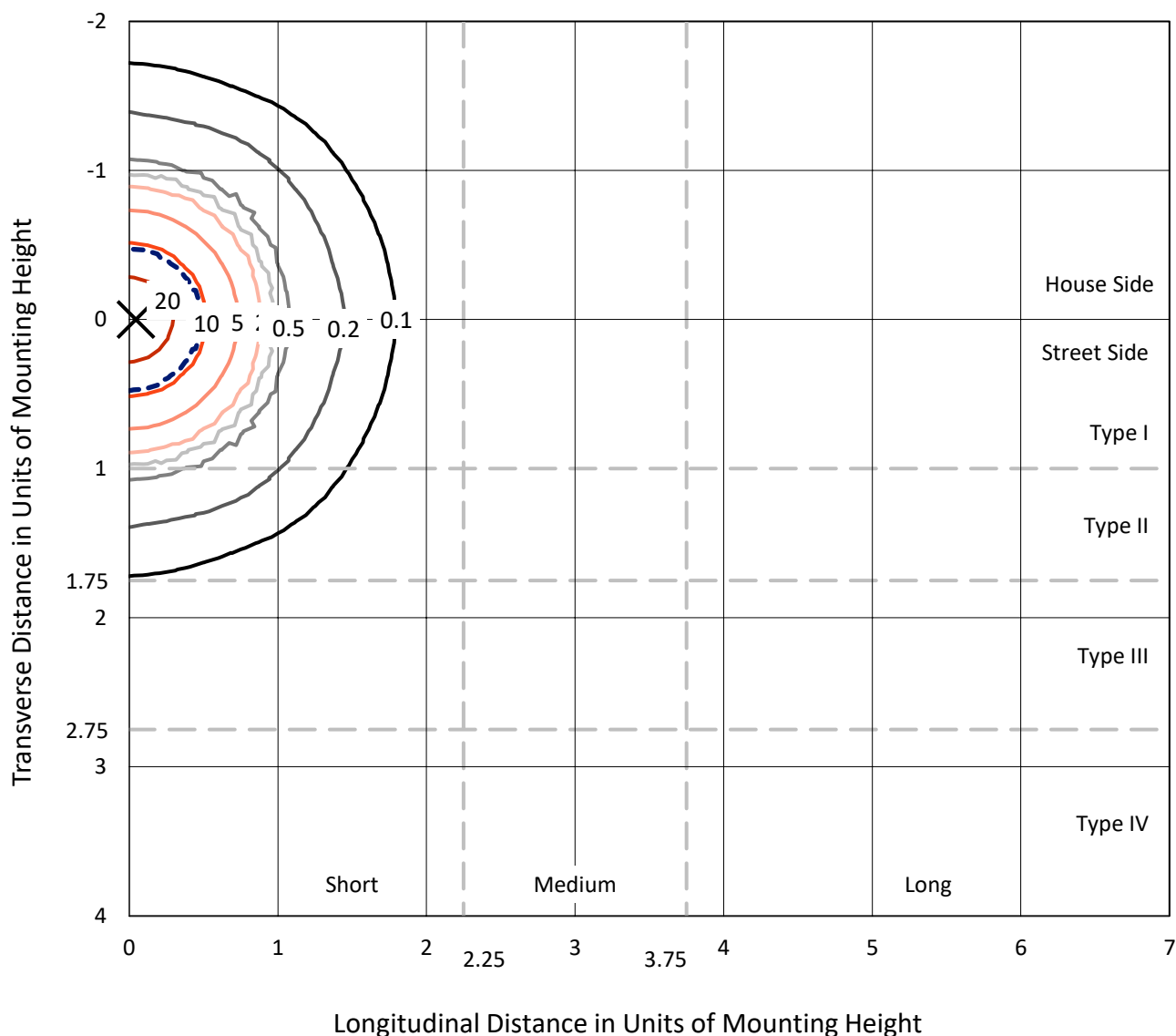
REPORT NUMBER: P524381

CATALOG NUMBER: IFLD-S-SA3D-940-U-55

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

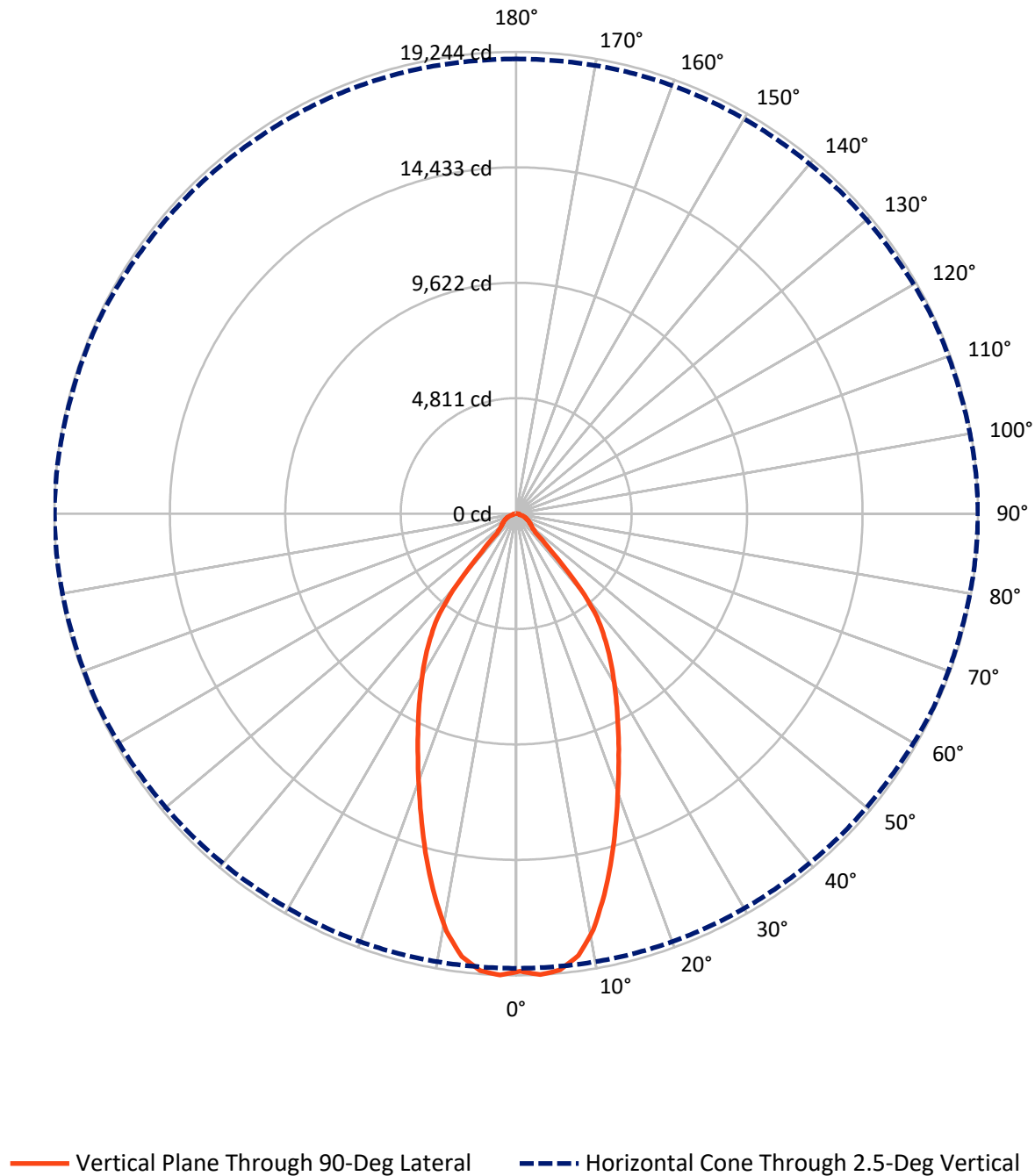


Based on 25 foot mounting height. Maximum calculated value = 30.5 fc

Type V - Short - N/A

REPORT NUMBER: P524381
CATALOG NUMBER: IFLD-S-SA3D-940-U-55

Luminous Intensity Polar Plot



REPORT NUMBER: P524381

CATALOG NUMBER: IFLD-S-SA3D-940-U-55

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8330.8	0.0	8330.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8330.8	0.0	8330.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	16661.5	0.0	16661.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1758.2	10.6
10°-20°	4058.6	24.4
20°-30°	4456.0	26.7
30°-40°	3863.7	23.2
40°-50°	1271.3	7.6
50°-60°	570.0	3.4
60°-70°	402.9	2.4
70°-80°	218.8	1.3
80°-90°	62.0	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°	16661.5	100.0
0°-180°	16661.5	100.0

Coefficient of Utilization



REPORT NUMBER: P524381

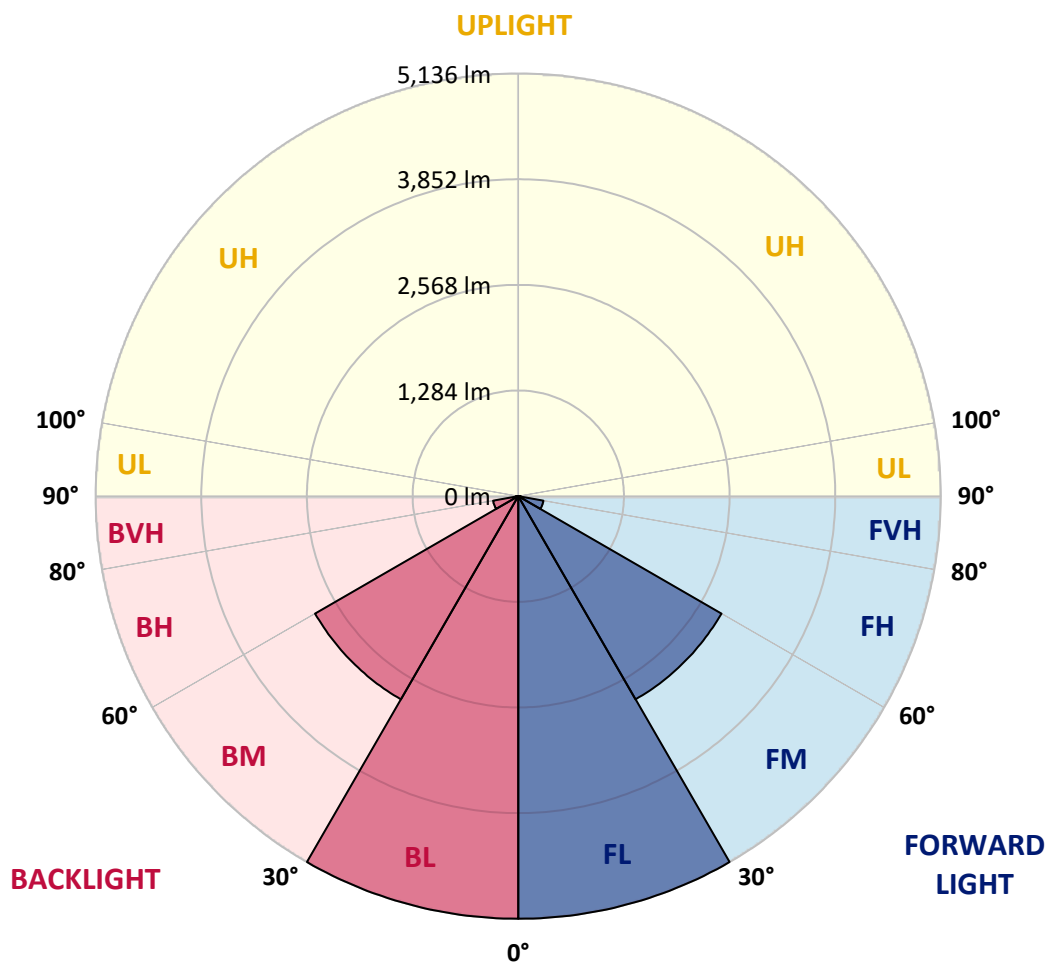
CATALOG NUMBER: IFLD-S-SA3D-940-U-55

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5136.4	30.8			
FM	(30°-60°)	2852.5	17.1			
FH	(60°-80°)	310.8	1.9			G0/660
FVH	(80°-90°)	31.0	0.2			G1/100
BL	(0°-30°)	5136.4	30.8	B5		
BM	(30°-60°)	2852.5	17.1	B3/5000		
BH	(60°-80°)	310.8	1.9	B1/500		G0/660
BVH	(80°-90°)	31.0	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



REPORT NUMBER: P524381

CATALOG NUMBER: IFLD-S-SA3D-940-U-55

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	19072.2	19072.2	19072.2	19072.2	19072.2	19072.2	19072.2	19072.2	19072.2	19072.2
2.5°	18953.6	18951.0	18981.3	18996.5	19004.1	19039.4	19074.7	19168.1	19170.7	19226.2
5°	18928.3	18905.6	18925.8	18895.5	18903.1	18903.1	18948.5	19016.7	19041.9	19097.5
7.5°	18365.4	18360.3	18347.7	18314.9	18355.3	18327.5	18410.8	18471.4	18529.5	18557.2
10°	17315.2	17267.2	17267.2	17221.8	17262.2	17224.3	17360.6	17416.2	17514.6	17572.7
12.5°	15957.0	15936.9	15939.4	15919.2	15916.7	15863.6	16022.7	16070.6	16159.0	16244.8
15°	14508.0	14477.7	14505.5	14505.5	14482.8	14434.8	14603.9	14669.6	14798.3	14838.7
17.5°	13076.7	13064.0	13081.7	13089.3	13071.6	13026.2	13190.3	13334.1	13422.5	13422.5
20°	11763.9	11758.9	11781.6	11758.9	11741.2	11710.9	11862.4	12001.2	12079.5	12084.5
22.5°	10610.3	10638.0	10617.8	10590.1	10552.2	10529.5	10668.3	10797.1	10850.1	10903.1
25°	9598.0	9605.5	9620.7	9577.8	9532.3	9504.6	9608.1	9716.6	9799.9	9830.2
27.5°	8764.9	8792.7	8754.8	8689.2	8663.9	8631.1	8704.3	8782.6	8843.1	8886.1
30°	7954.5	7969.7	7977.3	7909.1	7848.5	7800.6	7861.1	7929.3	7952.0	7989.9
32.5°	7177.0	7202.3	7227.5	7144.2	7101.3	7055.8	7086.1	7129.0	7141.7	7144.2
35°	6402.0	6384.3	6361.6	6331.3	6298.5	6243.0	6273.3	6288.4	6298.5	6298.5
37.5°	5465.4	5480.6	5485.6	5427.6	5412.4	5374.6	5394.7	5397.3	5417.5	5430.1
40°	4135.0	4188.1	4152.7	4117.4	4122.4	4077.0	4069.4	4059.3	4104.8	4122.4
42.5°	2249.3	2340.2	2246.8	2277.1	2254.3	2229.1	2221.5	2234.1	2176.1	2128.1
45°	1131.0	1125.9	1146.1	1146.1	1166.3	1173.9	1156.2	1141.1	1133.5	1113.3
47.5°	911.3	896.2	893.7	906.3	921.4	931.5	916.4	908.8	906.3	918.9
50°	782.6	759.9	752.3	770.0	782.6	792.7	780.1	780.1	777.5	797.7
52.5°	681.6	658.9	658.9	694.2	704.3	714.4	706.8	706.8	706.8	729.6
55°	603.3	585.7	565.5	610.9	643.7	653.8	648.8	646.3	648.8	674.0
57.5°	542.8	532.7	520.0	530.1	580.6	593.2	590.7	590.7	595.8	616.0
60°	484.7	479.6	474.6	474.6	515.0	537.7	535.2	535.2	540.2	552.9
62.5°	431.7	426.6	421.6	426.6	441.8	477.1	477.1	479.6	487.2	492.3
65°	378.7	376.1	376.1	378.7	383.7	411.5	421.6	429.2	436.7	439.3
67.5°	328.2	325.7	328.2	333.2	333.2	345.8	368.6	376.1	383.7	383.7
70°	265.1	277.7	285.3	287.8	292.8	295.4	315.6	330.7	338.3	328.2
72.5°	143.9	164.1	247.4	255.0	257.5	260.0	275.2	292.8	297.9	194.4
75°	103.5	103.5	207.0	219.6	222.2	222.2	234.8	252.4	257.5	148.9
77.5°	68.2	65.6	143.9	159.0	181.8	146.4	191.9	212.1	217.1	123.7
80°	53.0	50.5	111.1	123.7	126.2	101.0	156.5	171.7	174.2	101.0
82.5°	40.4	37.9	80.8	90.9	98.5	65.6	111.1	131.3	136.3	88.4
85°	22.7	22.7	40.4	37.9	58.1	42.9	63.1	65.6	88.4	55.5
87.5°	7.6	10.1	17.7	17.7	20.2	17.7	25.2	25.2	27.8	20.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

19072.2
19243.9
19107.6
18602.7
17635.8
16302.9
14894.3
13455.3
12112.3
10933.4
9850.4
8898.7
7997.5
7174.5
6328.8
5483.1
4145.1
2150.8
1131.0
929.0
823.0
754.8
689.2
631.1
563.0
499.8
444.3
383.7
290.3
166.6
146.4
121.2
90.9
90.9
53.0
15.1
0.0