

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: P524264

Luminaire Tested: **IFLD-S-SA3D-927-U-55**

Issue Date: 05/27/2021



Test Information

Test Method: LM-79-08
Report Number: P524264
Test Lab: INNOVATION CENTER(G2)
Issue Date: 05/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-927-U-55
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 55 distribution lens
Light Source: (48) 2700K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14597.2 lumens
Efficiency: N/A
Efficacy: 79.3 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

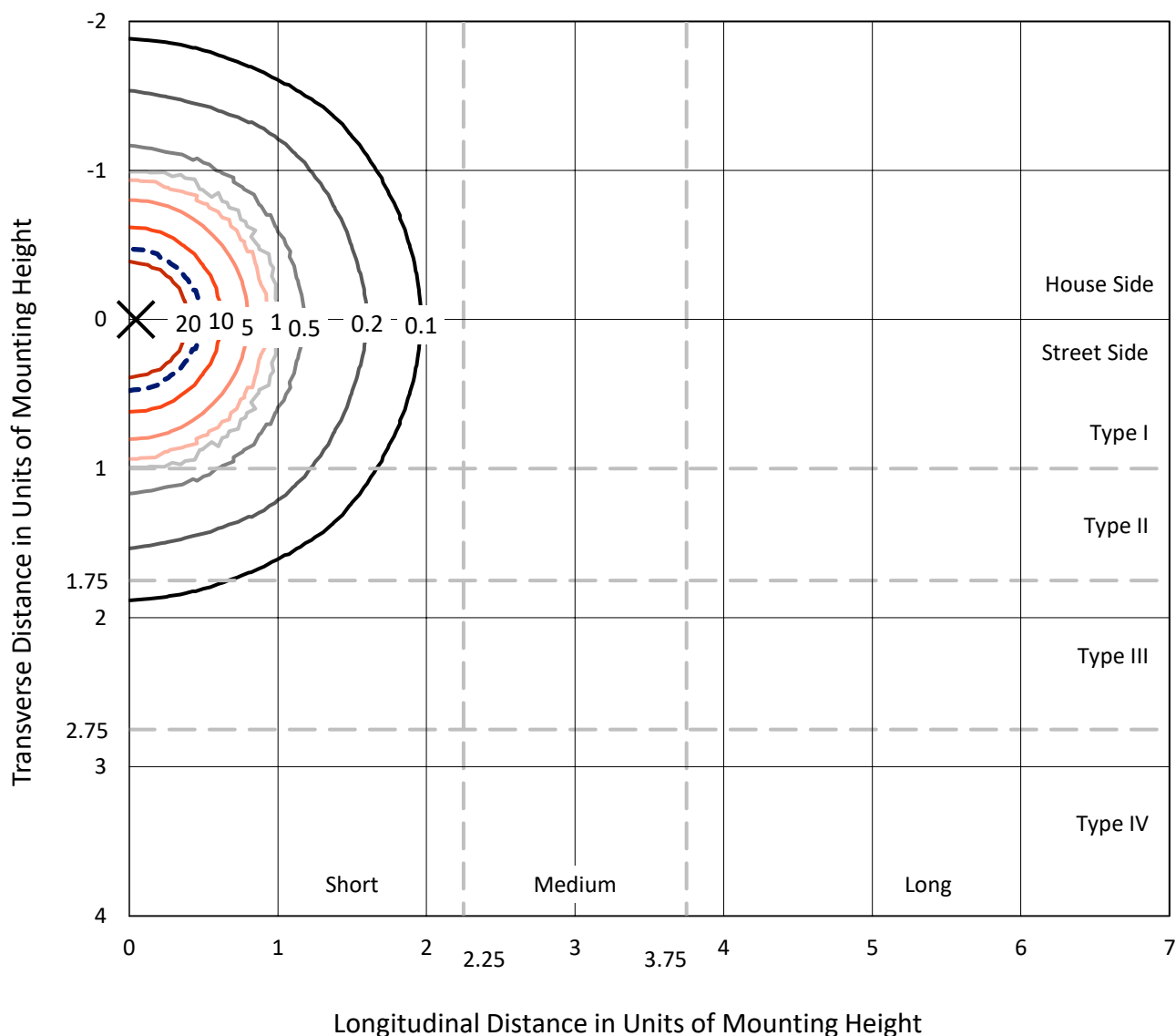
REPORT NUMBER: P524264

CATALOG NUMBER: IFLD-S-SA3D-927-U-55

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

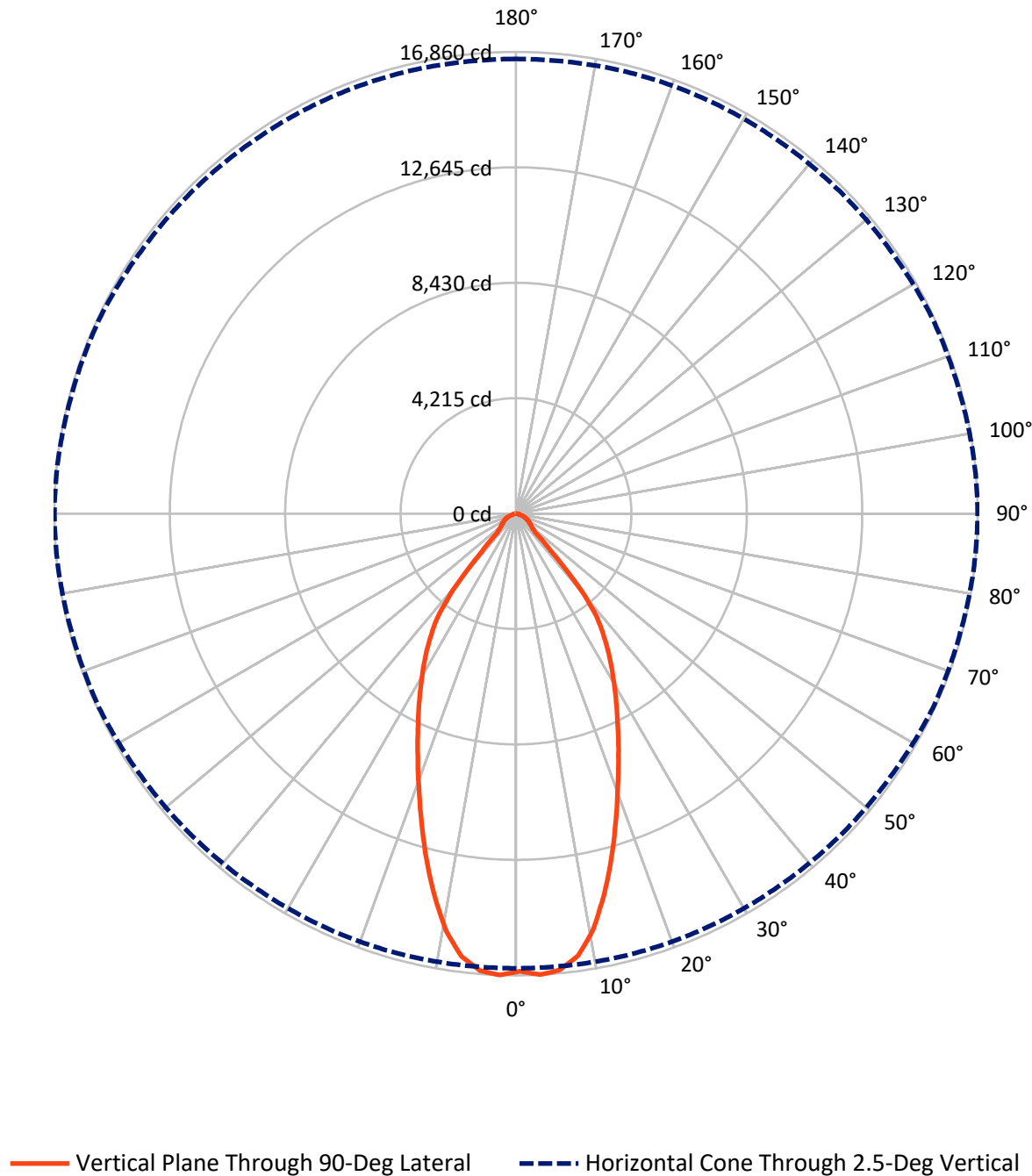


Based on 20 foot mounting height. Maximum calculated value = 41.8 fc

Type V - Short - N/A

REPORT NUMBER: P524264
CATALOG NUMBER: IFLD-S-SA3D-927-U-55

Luminous Intensity Polar Plot



REPORT NUMBER: P524264

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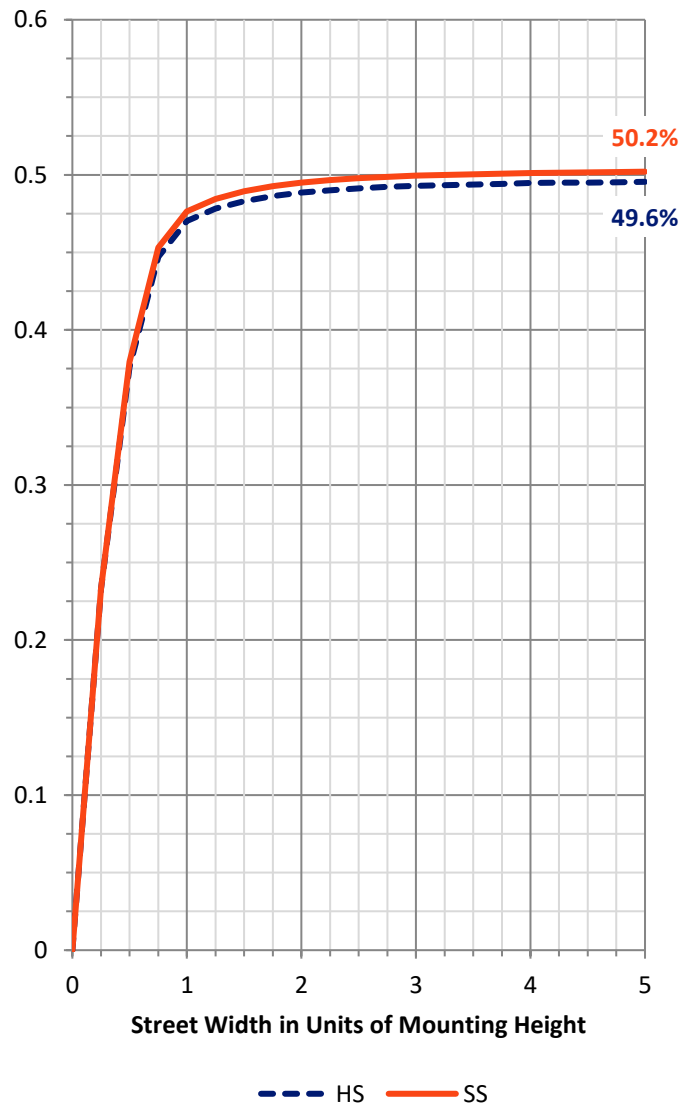
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7298.6	0.0	7298.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7298.6	0.0	7298.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	14597.2	0.0	14597.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1540.4	10.6
10°-20°	3555.8	24.4
20°-30°	3903.9	26.7
30°-40°	3385.0	23.2
40°-50°	1113.8	7.6
50°-60°	499.4	3.4
60°-70°	353.0	2.4
70°-80°	191.7	1.3
80°-90°	54.4	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°	14597.2	100.0
0°-180°	14597.2	100.0

Coefficient of Utilization



REPORT NUMBER: P524264

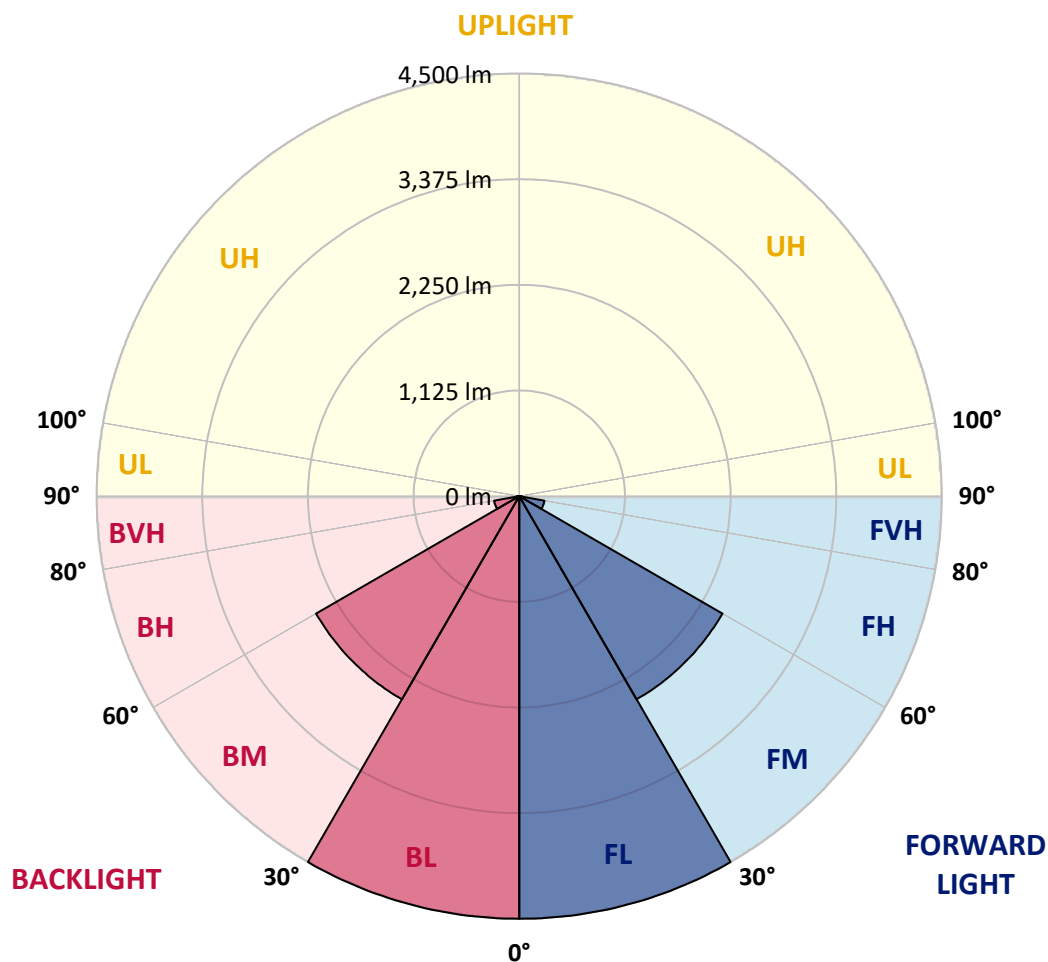
CATALOG NUMBER: IFLD-S-SA3D-927-U-55

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4500.0	30.8			
FM	(30°-60°)	2499.1	17.1			
FH	(60°-80°)	272.3	1.9			G0/660
FVH	(80°-90°)	27.2	0.2			G1/100
BL	(0°-30°)	4500.0	30.8	B4/5000		
BM	(30°-60°)	2499.1	17.1	B2/2500		
BH	(60°-80°)	272.3	1.9	B1/500		G0/660
BVH	(80°-90°)	27.2	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°	16709.2	16709.2	16709.2	16709.2	16709.2	16709.2	16709.2	16709.2	16709.2	16709.2
2.5°	16605.2	16603.0	16629.6	16642.8	16649.5	16680.4	16711.4	16793.2	16795.4	16844.1
5°	16583.1	16563.2	16580.9	16554.4	16561.0	16561.0	16600.8	16660.5	16682.6	16731.3
7.5°	16089.9	16085.5	16074.4	16045.7	16081.1	16056.7	16129.7	16182.8	16233.7	16258.0
10°	15169.8	15127.8	15127.8	15088.0	15123.4	15090.2	15209.7	15258.3	15344.6	15395.4
12.5°	13980.0	13962.3	13964.5	13946.8	13944.6	13898.1	14037.5	14079.5	14156.9	14232.1
15°	12710.5	12683.9	12708.3	12708.3	12688.4	12646.3	12794.5	12852.0	12964.8	13000.2
17.5°	11456.5	11445.4	11460.9	11467.5	11452.0	11412.2	11556.0	11682.0	11759.5	11759.5
20°	10306.4	10302.0	10321.9	10302.0	10286.5	10259.9	10392.6	10514.3	10582.8	10587.3
22.5°	9295.7	9320.0	9302.3	9278.0	9244.8	9224.9	9346.5	9459.3	9505.8	9552.2
25°	8408.8	8415.4	8428.7	8391.1	8351.3	8326.9	8417.6	8512.7	8585.7	8612.2
27.5°	7678.9	7703.2	7670.1	7612.6	7590.5	7561.7	7625.8	7694.4	7747.5	7785.1
30°	6969.0	6982.2	6988.9	6929.2	6876.1	6834.1	6887.1	6946.9	6966.8	6999.9
32.5°	6287.8	6309.9	6332.0	6259.0	6221.4	6181.6	6208.2	6245.8	6256.8	6259.0
35°	5608.8	5593.3	5573.4	5546.9	5518.1	5469.5	5496.0	5509.3	5518.1	5518.1
37.5°	4788.3	4801.5	4806.0	4755.1	4741.8	4708.6	4726.3	4728.6	4746.2	4757.3
40°	3622.7	3669.2	3638.2	3607.2	3611.7	3571.8	3565.2	3556.4	3596.2	3611.7
42.5°	1970.6	2050.2	1968.4	1994.9	1975.0	1952.9	1946.3	1957.3	1906.5	1864.4
45°	990.8	986.4	1004.1	1004.1	1021.8	1028.4	1012.9	999.7	993.0	975.3
47.5°	798.4	785.1	782.9	794.0	807.3	816.1	802.8	796.2	794.0	805.0
50°	685.6	665.7	659.1	674.6	685.6	694.5	683.4	683.4	681.2	698.9
52.5°	597.2	577.2	577.2	608.2	617.1	625.9	619.3	619.3	619.3	639.2
55°	528.6	513.1	495.4	535.2	564.0	572.8	568.4	566.2	568.4	590.5
57.5°	475.5	466.7	455.6	464.5	508.7	519.7	517.5	517.5	522.0	539.6
60°	424.6	420.2	415.8	415.8	451.2	471.1	468.9	468.9	473.3	484.4
62.5°	378.2	373.8	369.3	373.8	387.0	418.0	418.0	420.2	426.9	431.3
65°	331.8	329.5	329.5	331.8	336.2	360.5	369.3	376.0	382.6	384.8
67.5°	287.5	285.3	287.5	291.9	291.9	303.0	322.9	329.5	336.2	336.2
70°	232.2	243.3	249.9	252.1	256.6	258.8	276.5	289.7	296.4	287.5
72.5°	126.1	143.8	216.7	223.4	225.6	227.8	241.1	256.6	261.0	170.3
75°	90.7	90.7	181.4	192.4	194.6	194.6	205.7	221.2	225.6	130.5
77.5°	59.7	57.5	126.1	139.3	159.2	128.3	168.1	185.8	190.2	108.4
80°	46.4	44.2	97.3	108.4	110.6	88.5	137.1	150.4	152.6	88.5
82.5°	35.4	33.2	70.8	79.6	86.3	57.5	97.3	115.0	119.4	77.4
85°	19.9	19.9	35.4	33.2	50.9	37.6	55.3	57.5	77.4	48.7
87.5°	6.6	8.8	15.5	15.5	17.7	15.5	22.1	22.1	24.3	17.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

16709.2
16859.6
16740.1
16297.8
15450.7
14283.0
13048.9
11788.2
10611.6
9578.7
8629.9
7796.1
7006.6
6285.6
5544.7
4803.7
3631.6
1884.3
990.8
813.9
721.0
661.3
603.8
552.9
493.2
437.9
389.3
336.2
254.3
146.0
128.3
106.2
79.6
79.6
46.4
13.3
0.0