

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: P524377

Luminaire Tested: **IFLD-S-SA2E-940-U-55**

Issue Date: 05/27/2021

Test Information

Test Method: LM-79-08
Report Number: P524377
Test Lab: INNOVATION CENTER(G2)
Issue Date: 05/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-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: 12938.7 lumens
Efficiency: N/A
Efficacy: 82.8 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): 156.2
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

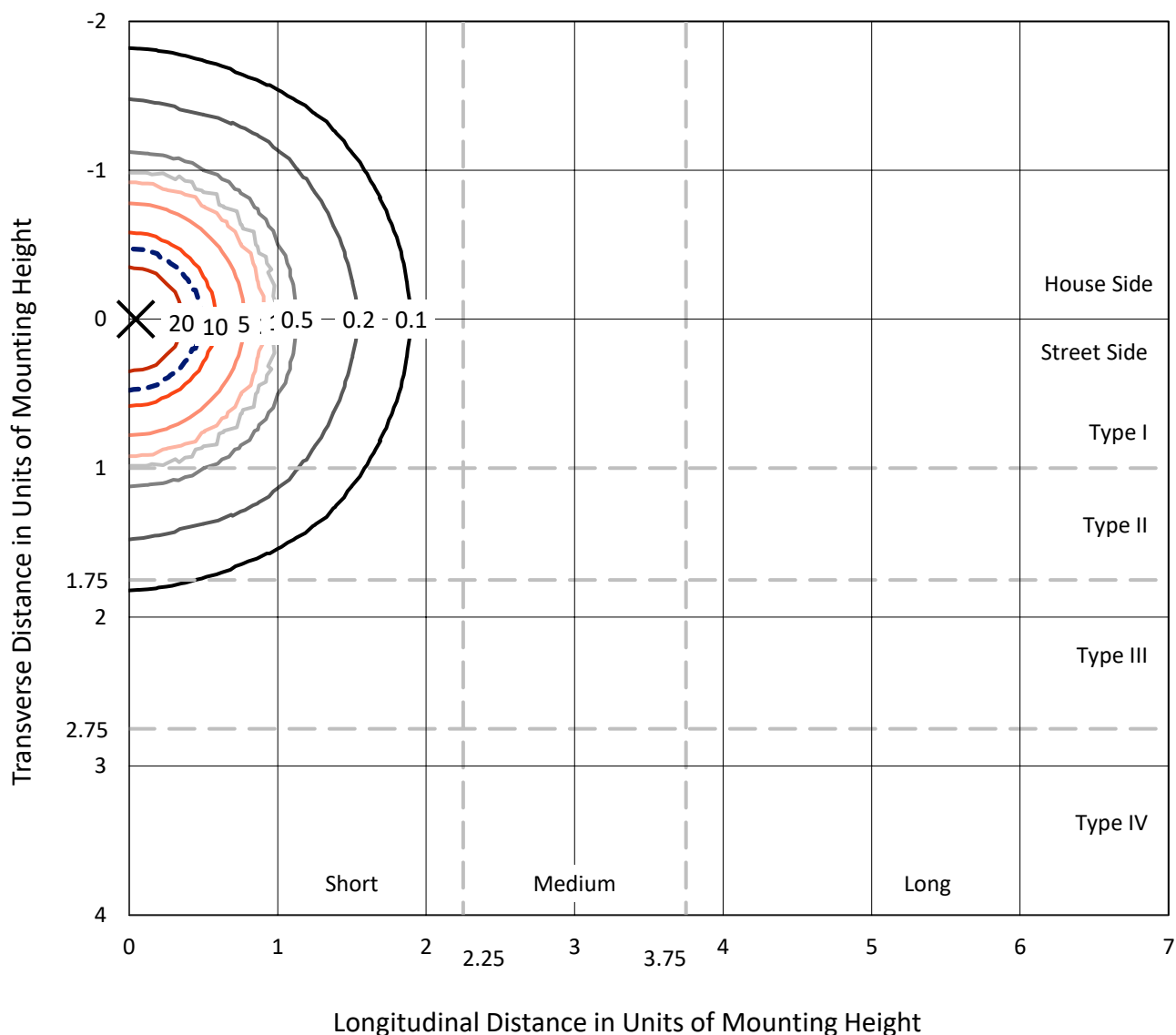
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

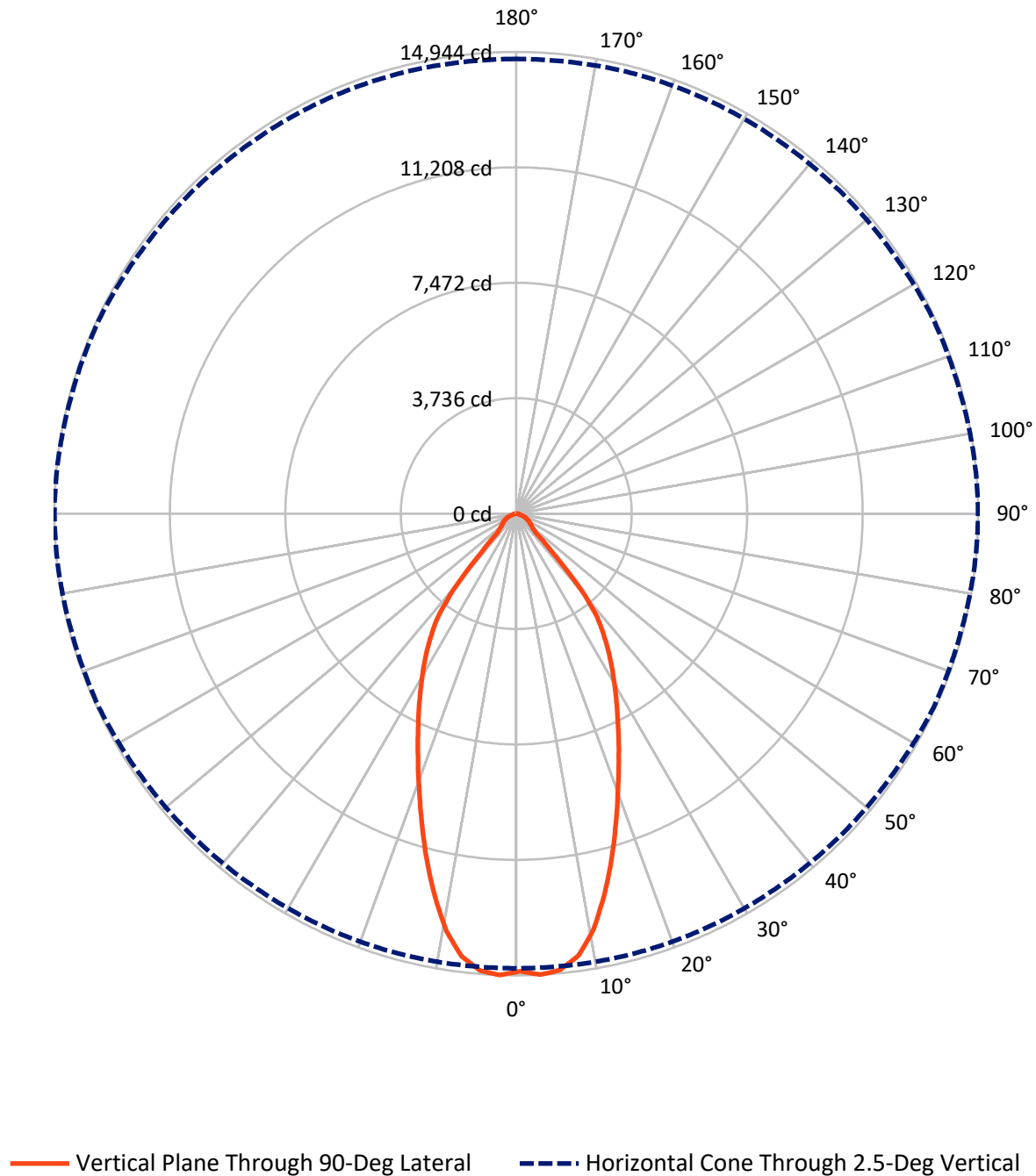


Based on 20 foot mounting height. Maximum calculated value = 37 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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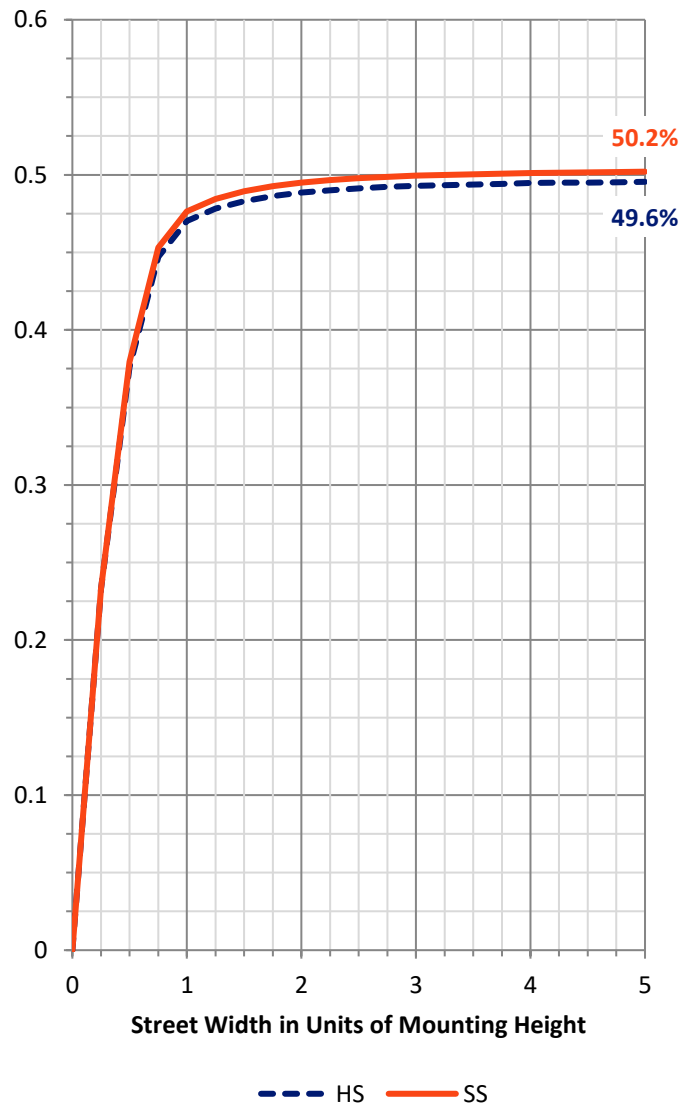
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6469.4	0.0	6469.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6469.4	0.0	6469.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	12938.7	0.0	12938.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1365.4	10.6
10°-20°	3151.8	24.4
20°-30°	3460.4	26.7
30°-40°	3000.4	23.2
40°-50°	987.3	7.6
50°-60°	442.6	3.4
60°-70°	312.9	2.4
70°-80°	169.9	1.3
80°-90°	48.2	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°	12938.7	100.0
0°-180°	12938.7	100.0

Coefficient of Utilization



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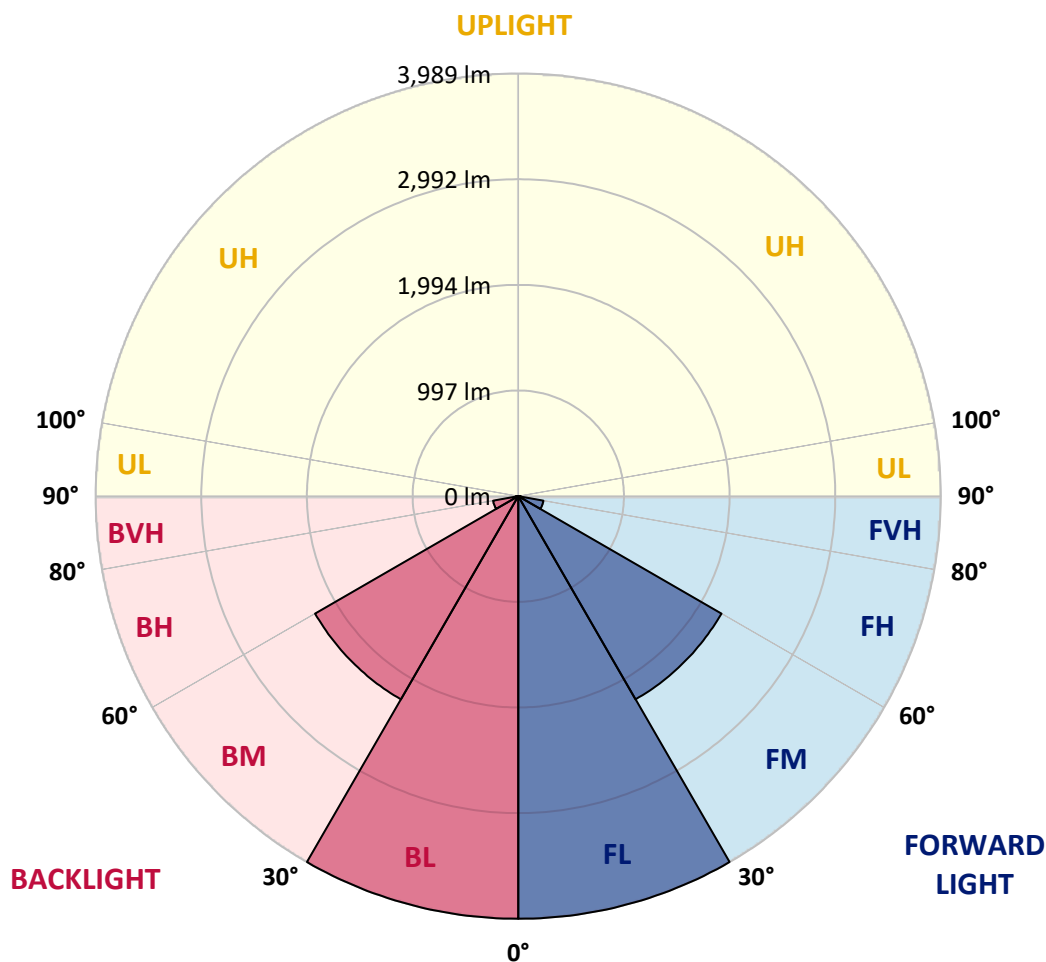
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3988.8	30.8			
FM	(30°-60°)	2215.1	17.1			
FH	(60°-80°)	241.4	1.9			G0/660
FVH	(80°-90°)	24.1	0.2			G1/100
BL	(0°-30°)	3988.8	30.8	B4/5000		
BM	(30°-60°)	2215.1	17.1	B2/2500		
BH	(60°-80°)	241.4	1.9	B1/500		G0/660
BVH	(80°-90°)	24.1	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°	14810.8	14810.8	14810.8	14810.8	14810.8	14810.8	14810.8	14810.8	14810.8	14810.8
2.5°	14718.6	14716.7	14740.2	14752.0	14757.9	14785.3	14812.7	14885.3	14887.2	14930.4
5°	14699.0	14681.4	14697.1	14673.6	14679.4	14679.4	14714.7	14767.7	14787.3	14830.4
7.5°	14261.9	14258.0	14248.2	14222.7	14254.0	14232.5	14297.2	14344.2	14389.3	14410.9
10°	13446.3	13409.1	13409.1	13373.8	13405.2	13375.8	13481.6	13524.8	13601.2	13646.3
12.5°	12391.7	12376.0	12377.9	12362.3	12360.3	12319.1	12442.6	12479.9	12548.5	12615.1
15°	11266.4	11242.9	11264.4	11264.4	11246.8	11209.5	11340.9	11391.9	11491.8	11523.2
17.5°	10154.8	10145.0	10158.8	10164.6	10150.9	10115.6	10243.1	10354.8	10423.4	10423.4
20°	9135.4	9131.5	9149.2	9131.5	9117.8	9094.3	9211.9	9319.7	9380.5	9384.4
22.5°	8239.5	8261.1	8245.4	8223.9	8194.5	8176.8	8284.6	8384.6	8425.8	8466.9
25°	7453.4	7459.3	7471.1	7437.7	7402.5	7380.9	7461.3	7545.6	7610.3	7633.8
27.5°	6806.5	6828.1	6798.7	6747.7	6728.1	6702.6	6759.4	6820.2	6867.3	6900.6
30°	6177.2	6189.0	6194.8	6141.9	6094.9	6057.6	6104.7	6157.6	6175.2	6204.7
32.5°	5573.4	5593.0	5612.6	5547.9	5514.6	5479.3	5502.8	5536.2	5546.0	5547.9
35°	4971.6	4957.8	4940.2	4916.7	4891.2	4848.1	4871.6	4883.3	4891.2	4891.2
37.5°	4244.3	4256.0	4259.9	4214.8	4203.1	4173.7	4189.4	4191.3	4207.0	4216.8
40°	3211.1	3252.3	3224.8	3197.4	3201.3	3166.0	3160.2	3152.3	3187.6	3201.3
42.5°	1746.7	1817.3	1744.8	1768.3	1750.6	1731.0	1725.1	1734.9	1689.9	1652.6
45°	878.3	874.3	890.0	890.0	905.7	911.6	897.9	886.1	880.2	864.5
47.5°	707.7	695.9	694.0	703.8	715.5	723.4	711.6	705.7	703.8	713.6
50°	607.7	590.1	584.2	597.9	607.7	615.6	605.8	605.8	603.8	619.5
52.5°	529.3	511.7	511.7	539.1	547.0	554.8	548.9	548.9	548.9	566.6
55°	468.5	454.8	439.1	474.4	499.9	507.7	503.8	501.9	503.8	523.4
57.5°	421.5	413.6	403.8	411.7	450.9	460.7	458.7	458.7	462.7	478.3
60°	376.4	372.5	368.6	368.6	399.9	417.6	415.6	415.6	419.5	429.3
62.5°	335.2	331.3	327.4	331.3	343.1	370.5	370.5	372.5	378.4	382.3
65°	294.1	292.1	292.1	294.1	298.0	319.5	327.4	333.3	339.1	341.1
67.5°	254.9	252.9	254.9	258.8	258.8	268.6	286.2	292.1	298.0	298.0
70°	205.8	215.6	221.5	223.5	227.4	229.4	245.0	256.8	262.7	254.9
72.5°	111.7	127.4	192.1	198.0	200.0	201.9	213.7	227.4	231.3	151.0
75°	80.4	80.4	160.8	170.6	172.5	172.5	182.3	196.0	200.0	115.7
77.5°	52.9	51.0	111.7	123.5	141.1	113.7	149.0	164.7	168.6	96.1
80°	41.2	39.2	86.3	96.1	98.0	78.4	121.5	133.3	135.3	78.4
82.5°	31.4	29.4	62.7	70.6	76.5	51.0	86.3	101.9	105.9	68.6
85°	17.6	17.6	31.4	29.4	45.1	33.3	49.0	51.0	68.6	43.1
87.5°	5.9	7.8	13.7	13.7	15.7	13.7	19.6	19.6	21.6	15.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

14810.8
14944.1
14838.2
14446.2
13695.3
12660.2
11566.3
10448.9
9406.0
8490.5
7649.5
6910.4
6210.5
5571.4
4914.7
4258.0
3219.0
1670.3
878.3
721.4
639.1
586.2
535.2
490.1
437.2
388.2
345.0
298.0
225.4
129.4
113.7
94.1
70.6
70.6
41.2
11.8
0.0