

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: P524408

Luminaire Tested: **IFLD-L-SA8A-940-U-55**

Issue Date: 05/27/2021



Test Information

Test Method: LM-79-08
Report Number: P524408
Test Lab: INNOVATION CENTER(G2)
Issue Date: 05/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-940-U-55
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 55
distribution lens
Light Source: (128) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24089 lumens
Efficiency: N/A
Efficacy: 97.2 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): 247.8
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

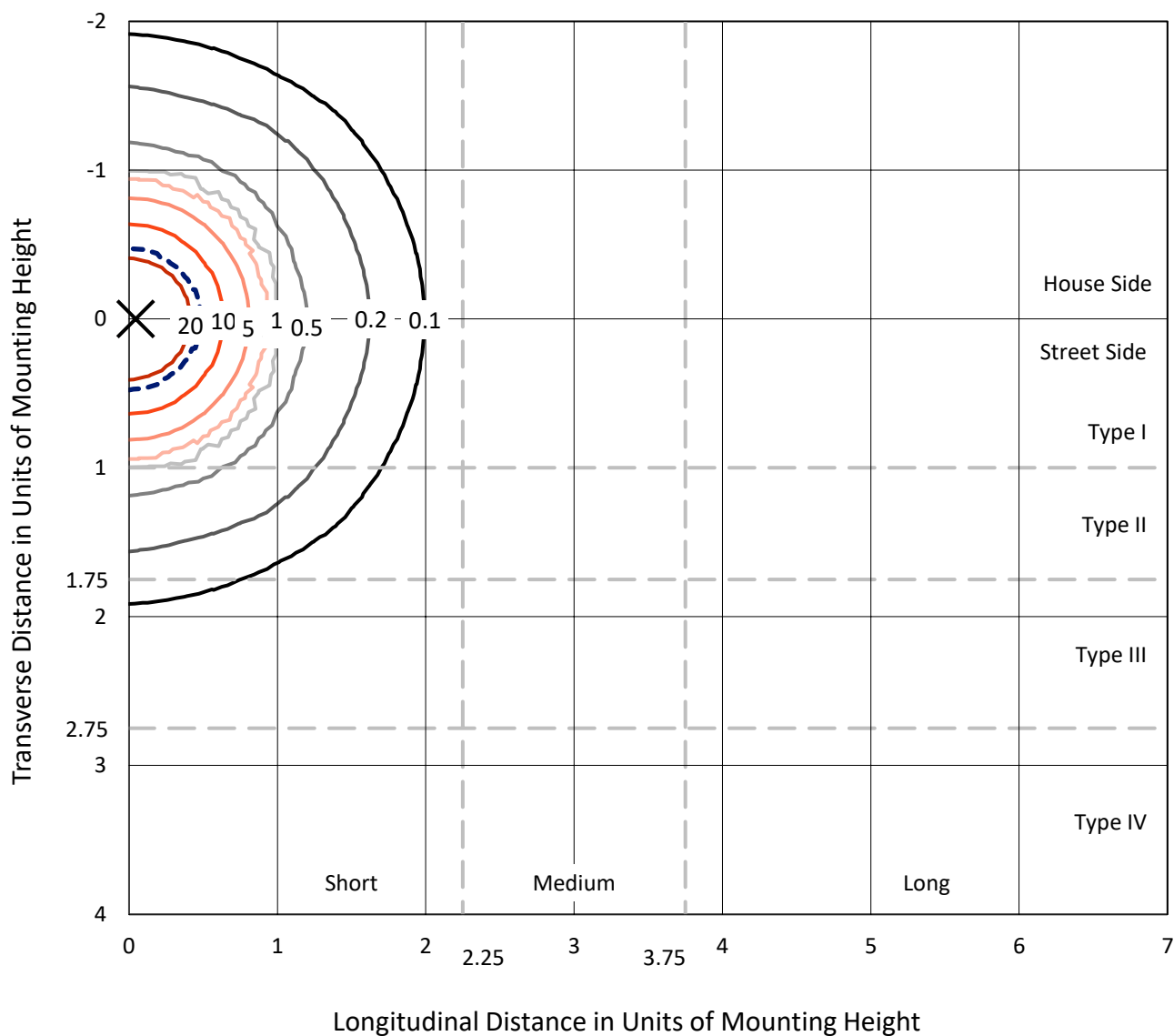
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

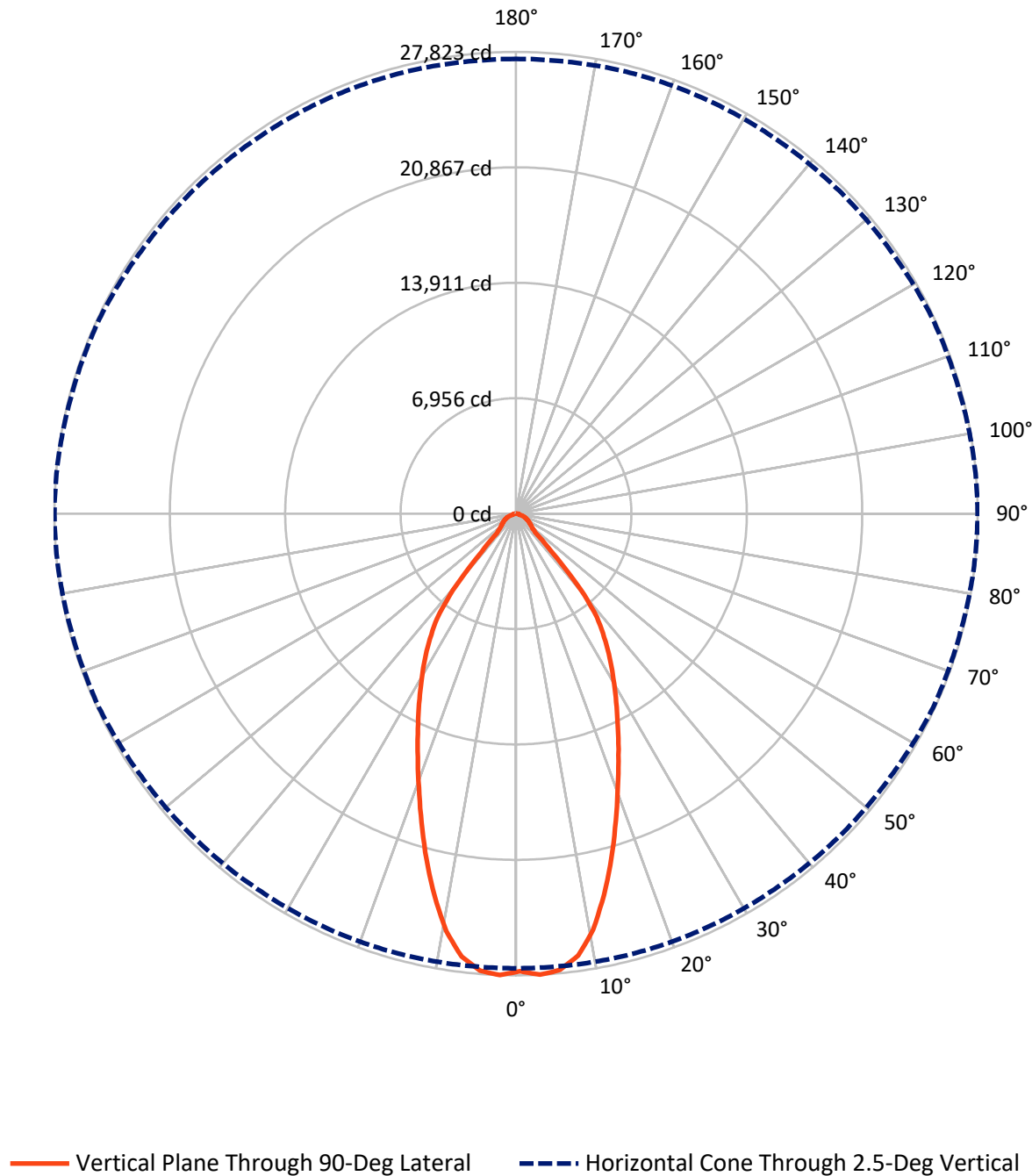


Based on 25 foot mounting height. Maximum calculated value = 44.1 fc

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	12044.5	0.0	12044.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12044.5	0.0	12044.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	24089.0	0.0	24089.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2542.0	10.6
10°-20°	5867.9	24.4
20°-30°	6442.4	26.7
30°-40°	5586.1	23.2
40°-50°	1838.0	7.6
50°-60°	824.1	3.4
60°-70°	582.5	2.4
70°-80°	316.3	1.3
80°-90°	89.7	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°	24089.0	100.0
0°-180°	24089.0	100.0

Coefficient of Utilization



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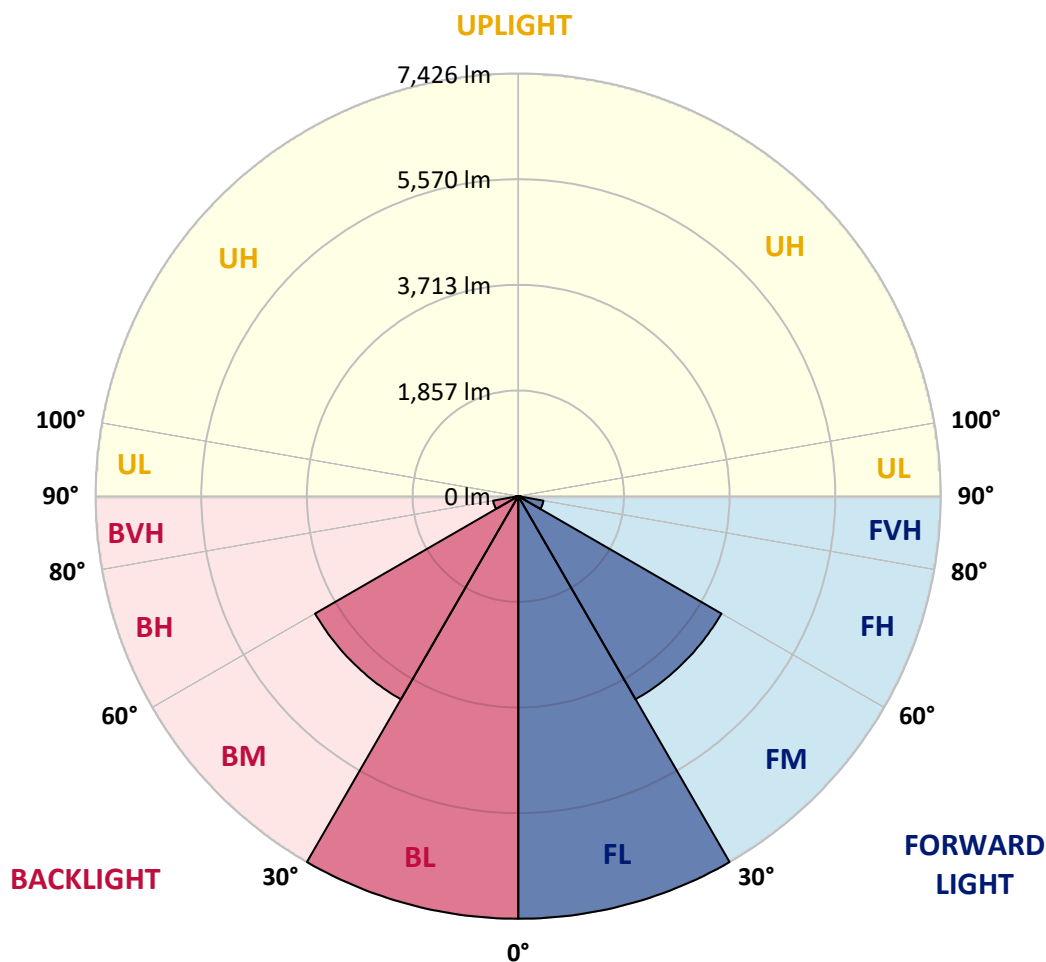
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7426.1	30.8			
FM	(30°-60°)	4124.1	17.1			
FH	(60°-80°)	449.4	1.9			G0/660
FVH	(80°-90°)	44.8	0.2			G1/100
BL	(0°-30°)	7426.1	30.8	B5		
BM	(30°-60°)	4124.1	17.1	B3/5000		
BH	(60°-80°)	449.4	1.9	B1/500		G0/660
BVH	(80°-90°)	44.8	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	27574.3	27574.3	27574.3	27574.3	27574.3	27574.3	27574.3	27574.3	27574.3	27574.3
2.5°	27402.8	27399.1	27442.9	27464.8	27475.8	27526.9	27578.0	27713.0	27716.7	27797.0
5°	27366.3	27333.4	27362.6	27318.8	27329.8	27329.8	27395.5	27494.0	27530.5	27610.8
7.5°	26552.4	26545.1	26526.8	26479.4	26537.8	26497.6	26618.1	26705.7	26789.6	26829.8
10°	25034.1	24964.7	24964.7	24899.0	24957.4	24902.7	25099.8	25180.0	25322.4	25406.3
12.5°	23070.5	23041.3	23044.9	23015.7	23012.1	22935.4	23165.4	23234.7	23362.4	23486.5
15°	20975.5	20931.7	20971.8	20971.8	20939.0	20869.6	21114.2	21209.1	21395.2	21453.6
17.5°	18906.0	18887.8	18913.3	18924.3	18898.7	18833.0	19070.3	19278.3	19406.0	19406.0
20°	17008.1	17000.8	17033.7	17000.8	16975.3	16931.5	17150.5	17351.2	17464.3	17471.6
22.5°	15340.2	15380.3	15351.1	15311.0	15256.2	15223.4	15424.1	15610.2	15686.9	15763.5
25°	13876.6	13887.5	13909.4	13847.4	13781.7	13741.5	13891.2	14048.1	14168.6	14212.4
27.5°	12672.1	12712.3	12657.5	12562.7	12526.2	12478.7	12584.5	12697.7	12785.3	12847.3
30°	11500.6	11522.5	11533.4	11434.9	11347.3	11277.9	11365.5	11464.1	11496.9	11551.7
32.5°	10376.4	10412.9	10449.4	10329.0	10266.9	10201.2	10245.0	10307.1	10325.3	10329.0
35°	9255.9	9230.4	9197.5	9153.7	9106.3	9026.0	9069.8	9091.7	9106.3	9106.3
37.5°	7901.8	7923.7	7931.0	7847.1	7825.2	7770.4	7799.6	7803.3	7832.5	7850.7
40°	5978.4	6055.0	6003.9	5952.8	5960.1	5894.4	5883.5	5868.9	5934.6	5960.1
42.5°	3252.0	3383.4	3248.3	3292.1	3259.3	3222.8	3211.8	3230.1	3146.1	3076.8
45°	1635.1	1627.8	1657.0	1657.0	1686.2	1697.2	1671.6	1649.7	1638.8	1609.6
47.5°	1317.6	1295.7	1292.0	1310.3	1332.2	1346.8	1324.9	1313.9	1310.3	1328.5
50°	1131.4	1098.6	1087.6	1113.2	1131.4	1146.0	1127.8	1127.8	1124.1	1153.3
52.5°	985.4	952.6	952.6	1003.7	1018.3	1032.9	1021.9	1021.9	1021.9	1054.8
55°	872.3	846.8	817.6	883.3	930.7	945.3	938.0	934.4	938.0	974.5
57.5°	784.7	770.1	751.9	766.5	839.5	857.7	854.1	854.1	861.4	890.6
60°	700.8	693.5	686.2	686.2	744.6	777.4	773.8	773.8	781.1	799.3
62.5°	624.1	616.8	609.5	616.8	638.7	689.8	689.8	693.5	704.4	711.7
65°	547.5	543.8	543.8	547.5	554.8	594.9	609.5	620.5	631.4	635.1
67.5°	474.5	470.8	474.5	481.8	481.8	500.0	532.9	543.8	554.8	554.8
70°	383.2	401.5	412.4	416.1	423.4	427.0	456.2	478.1	489.1	474.5
72.5°	208.0	237.2	357.7	368.6	372.3	375.9	397.8	423.4	430.7	281.0
75°	149.6	149.6	299.3	317.5	321.2	321.2	339.4	365.0	372.3	215.3
77.5°	98.5	94.9	208.0	229.9	262.8	211.7	277.4	306.6	313.9	178.8
80°	76.6	73.0	160.6	178.8	182.5	146.0	226.3	248.2	251.8	146.0
82.5°	58.4	54.7	116.8	131.4	142.3	94.9	160.6	189.8	197.1	127.7
85°	32.8	32.8	58.4	54.7	83.9	62.0	91.2	94.9	127.7	80.3
87.5°	10.9	14.6	25.5	25.5	29.2	25.5	36.5	36.5	40.1	29.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

27574.3
27822.5
27625.4
26895.5
25497.6
23570.5
21533.9
19453.5
17511.8
15807.3
14241.6
12865.6
11562.6
10372.8
9150.1
7927.4
5993.0
3109.6
1635.1
1343.1
1189.8
1091.3
996.4
912.5
813.9
722.7
642.4
554.8
419.7
240.9
211.7
175.2
131.4
131.4
76.6
21.9
0.0