

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: P524401

Luminaire Tested: **IFLD-M-SA4D-940-U-55**

Issue Date: 05/27/2021

Test Information

Test Method: LM-79-08
Report Number: P524401
Test Lab: INNOVATION CENTER(G2)
Issue Date: 05/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-940-U-55
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 55
distribution lens
Light Source: (64) 4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22364 lumens
Efficiency: N/A
Efficacy: 89.6 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): 249.7
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

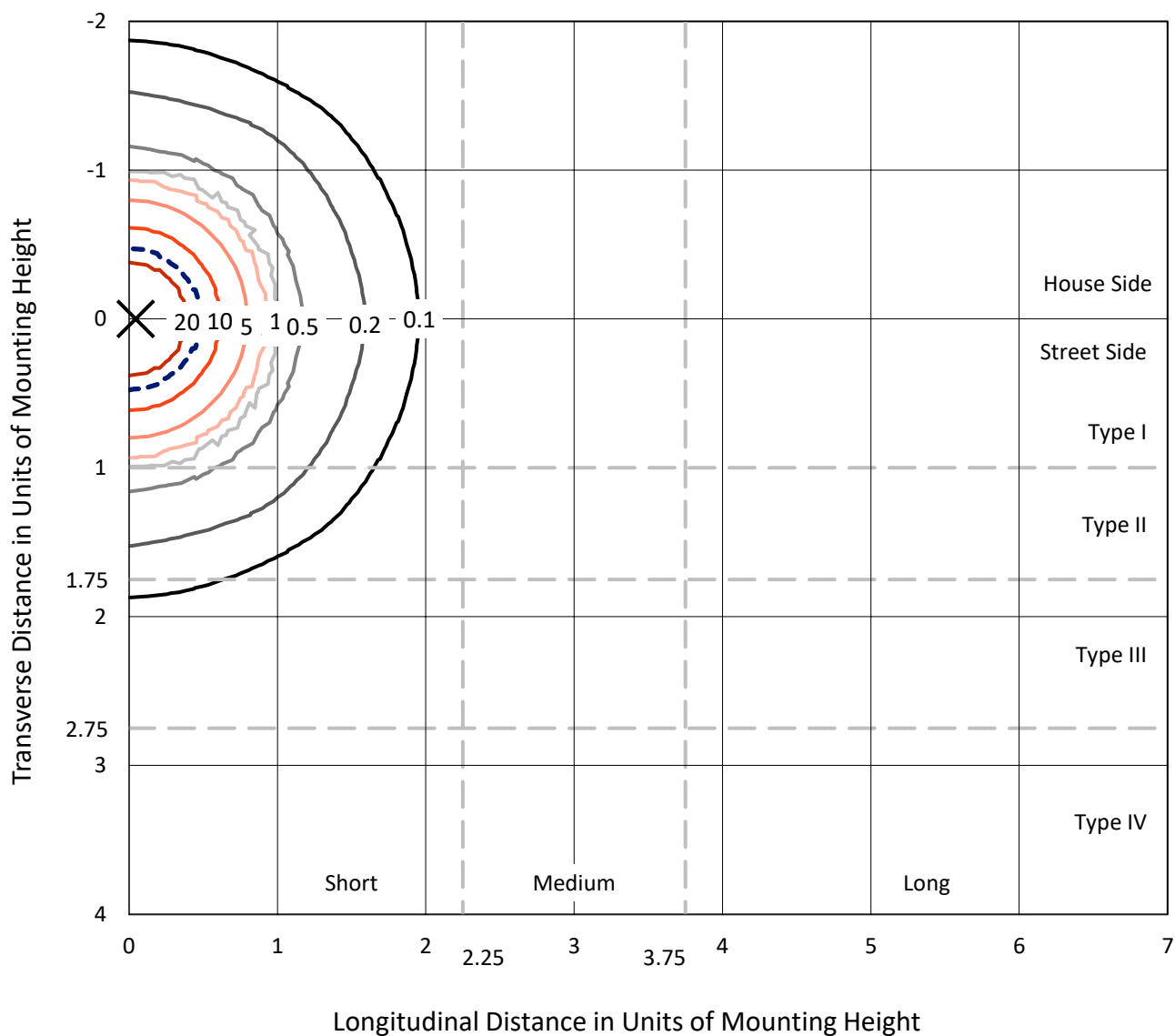
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

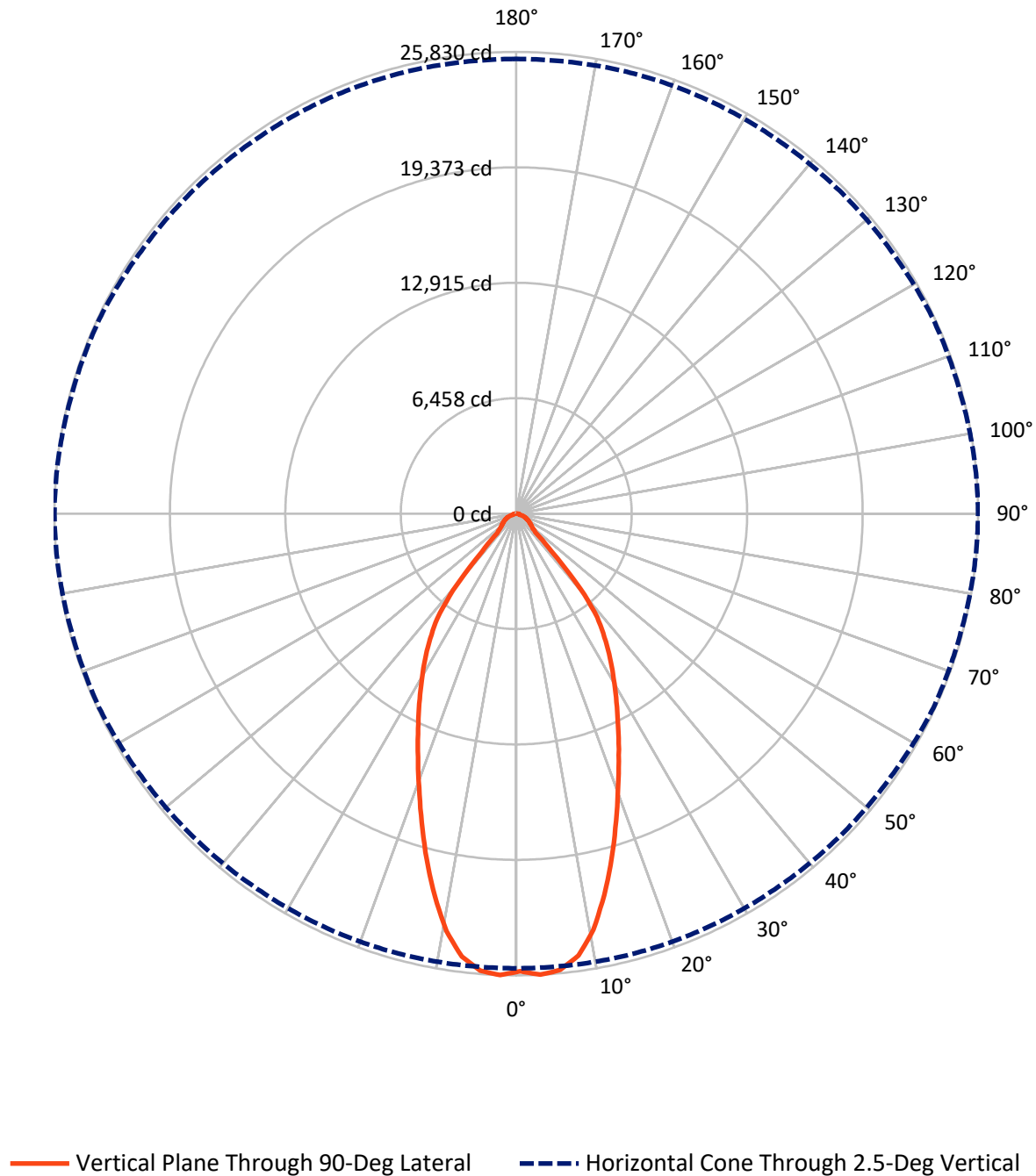


Based on 25 foot mounting height. Maximum calculated value = 41 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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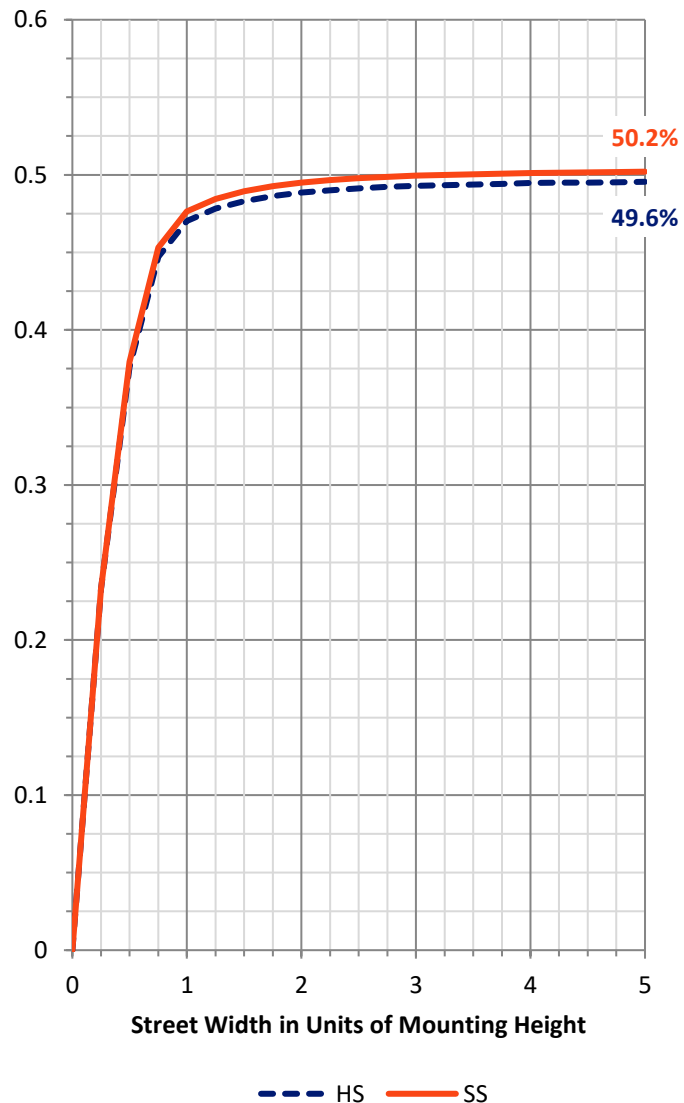
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11182.0	0.0	11182.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11182.0	0.0	11182.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	22364.0	0.0	22364.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2359.9	10.6
10°-20°	5447.7	24.4
20°-30°	5981.1	26.7
30°-40°	5186.0	23.2
40°-50°	1706.4	7.6
50°-60°	765.1	3.4
60°-70°	540.8	2.4
70°-80°	293.6	1.3
80°-90°	83.3	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°	22364.0	100.0
0°-180°	22364.0	100.0

Coefficient of Utilization



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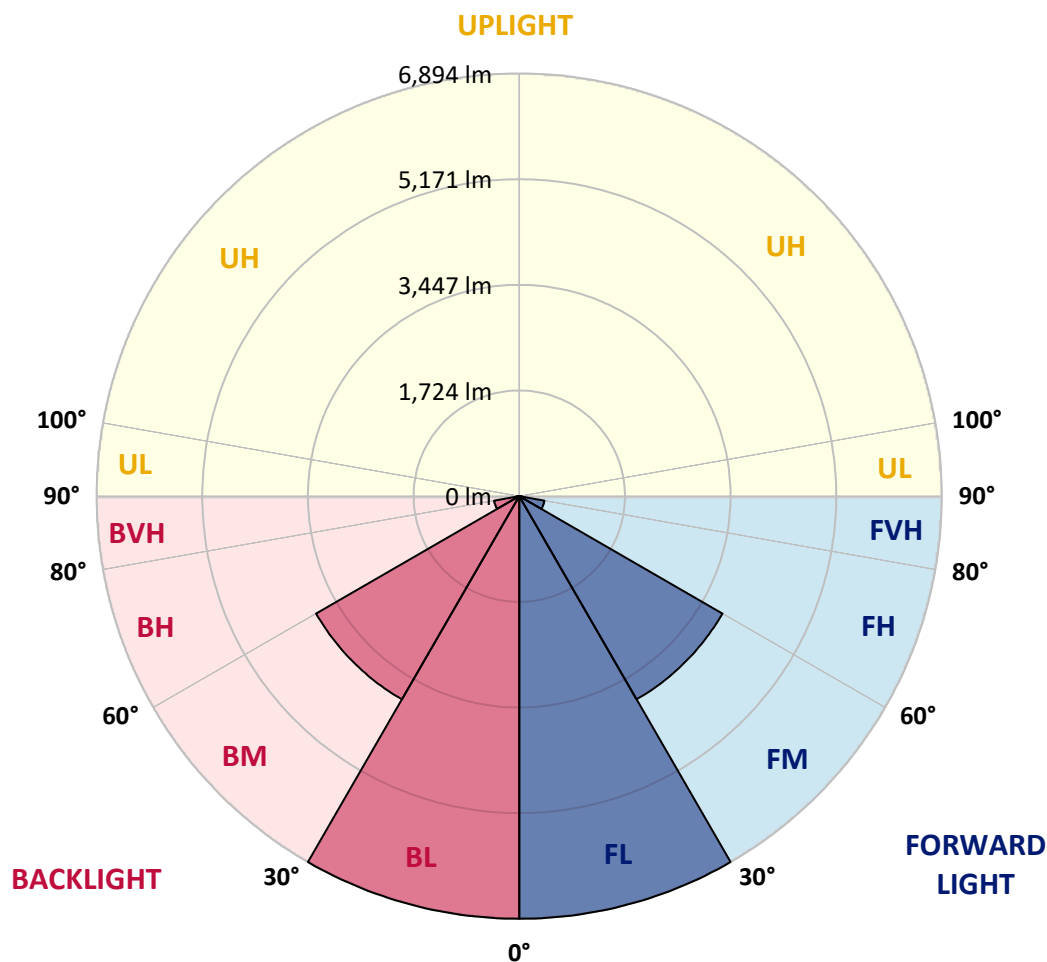
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6894.4	30.8			
FM	(30°-60°)	3828.8	17.1			
FH	(60°-80°)	417.2	1.9			G0/660
FVH	(80°-90°)	41.6	0.2			G1/100
BL	(0°-30°)	6894.4	30.8	B5		
BM	(30°-60°)	3828.8	17.1	B3/5000		
BH	(60°-80°)	417.2	1.9	B1/500		G0/660
BVH	(80°-90°)	41.6	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°	25599.8	25599.8	25599.8	25599.8	25599.8	25599.8	25599.8	25599.8	25599.8	25599.8
2.5°	25440.5	25437.1	25477.8	25498.1	25508.3	25555.7	25603.2	25728.5	25731.9	25806.5
5°	25406.6	25376.1	25403.2	25362.6	25372.7	25372.7	25433.7	25525.2	25559.1	25633.6
7.5°	24651.0	24644.2	24627.3	24583.2	24637.4	24600.2	24712.0	24793.3	24871.2	24908.5
10°	23241.4	23177.0	23177.0	23116.0	23170.2	23119.4	23302.4	23376.9	23509.1	23587.0
12.5°	21418.4	21391.3	21394.7	21367.6	21364.2	21293.0	21506.5	21570.9	21689.5	21804.7
15°	19473.4	19432.8	19470.1	19470.1	19439.6	19375.2	19602.2	19690.3	19863.1	19917.3
17.5°	17552.2	17535.2	17559.0	17569.1	17545.4	17484.4	17704.7	17897.8	18016.4	18016.4
20°	15790.2	15783.4	15813.9	15783.4	15759.7	15719.0	15922.3	16108.7	16213.7	16220.5
22.5°	14241.7	14278.9	14251.8	14214.6	14163.7	14133.2	14319.6	14492.4	14563.6	14634.7
25°	12882.9	12893.1	12913.4	12855.8	12794.8	12757.5	12896.5	13042.2	13154.0	13194.6
27.5°	11764.7	11802.0	11751.2	11663.1	11629.2	11585.1	11683.4	11788.4	11869.8	11927.4
30°	10677.0	10697.3	10707.5	10616.0	10534.7	10470.3	10551.6	10643.1	10673.6	10724.5
32.5°	9633.4	9667.3	9701.1	9589.3	9531.7	9470.7	9511.4	9569.0	9585.9	9589.3
35°	8593.1	8569.4	8538.9	8498.2	8454.2	8379.6	8420.3	8440.6	8454.2	8454.2
37.5°	7336.0	7356.3	7363.1	7285.2	7264.8	7214.0	7241.1	7244.5	7271.6	7288.6
40°	5550.3	5621.4	5574.0	5526.6	5533.3	5472.4	5462.2	5448.6	5509.6	5533.3
42.5°	3019.1	3141.1	3015.7	3056.4	3025.9	2992.0	2981.8	2998.8	2920.8	2856.5
45°	1518.0	1511.3	1538.4	1538.4	1565.5	1575.6	1551.9	1531.6	1521.4	1494.3
47.5°	1223.2	1202.9	1199.5	1216.5	1236.8	1250.3	1230.0	1219.8	1216.5	1233.4
50°	1050.4	1019.9	1009.8	1033.5	1050.4	1064.0	1047.0	1047.0	1043.6	1070.8
52.5°	914.9	884.4	884.4	931.8	945.4	958.9	948.8	948.8	948.8	979.3
55°	809.8	786.1	759.0	820.0	864.1	877.6	870.8	867.4	870.8	904.7
57.5°	728.5	715.0	698.0	711.6	779.3	796.3	792.9	792.9	799.7	826.8
60°	650.6	643.8	637.0	637.0	691.2	721.7	718.4	718.4	725.1	742.1
62.5°	579.4	572.6	565.9	572.6	593.0	640.4	640.4	643.8	654.0	660.7
65°	508.3	504.9	504.9	508.3	515.0	552.3	565.9	576.0	586.2	589.6
67.5°	440.5	437.1	440.5	447.3	447.3	464.2	494.7	504.9	515.0	515.0
70°	355.8	372.7	382.9	386.3	393.1	396.4	423.6	443.9	454.1	440.5
72.5°	193.1	220.2	332.1	342.2	345.6	349.0	369.3	393.1	399.8	260.9
75°	138.9	138.9	277.9	294.8	298.2	298.2	315.1	338.8	345.6	199.9
77.5°	91.5	88.1	193.1	213.5	244.0	196.5	257.5	284.6	291.4	166.0
80°	71.2	67.8	149.1	166.0	169.4	135.5	210.1	230.4	233.8	135.5
82.5°	54.2	50.8	108.4	122.0	132.1	88.1	149.1	176.2	183.0	118.6
85°	30.5	30.5	54.2	50.8	77.9	57.6	84.7	88.1	118.6	74.5
87.5°	10.2	13.6	23.7	23.7	27.1	23.7	33.9	33.9	37.3	27.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

25599.8
25830.2
25647.2
24969.5
23671.7
21882.6
19991.9
18060.5
16257.8
14675.4
13221.7
11944.3
10734.6
9630.0
8494.9
7359.7
5563.8
2887.0
1518.0
1247.0
1104.6
1013.1
925.0
847.1
755.6
670.9
596.4
515.0
389.7
223.6
196.5
162.6
122.0
122.0
71.2
20.3
0.0