

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: P524402

Luminaire Tested: **IFLD-M-SA4E-940-U-55**

Issue Date: 05/27/2021

Test Information

Test Method: LM-79-08
Report Number: P524402
Test Lab: INNOVATION CENTER(G2)
Issue Date: 05/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-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: 25881.6 lumens
Efficiency: N/A
Efficacy: 82.2 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): 314.8
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

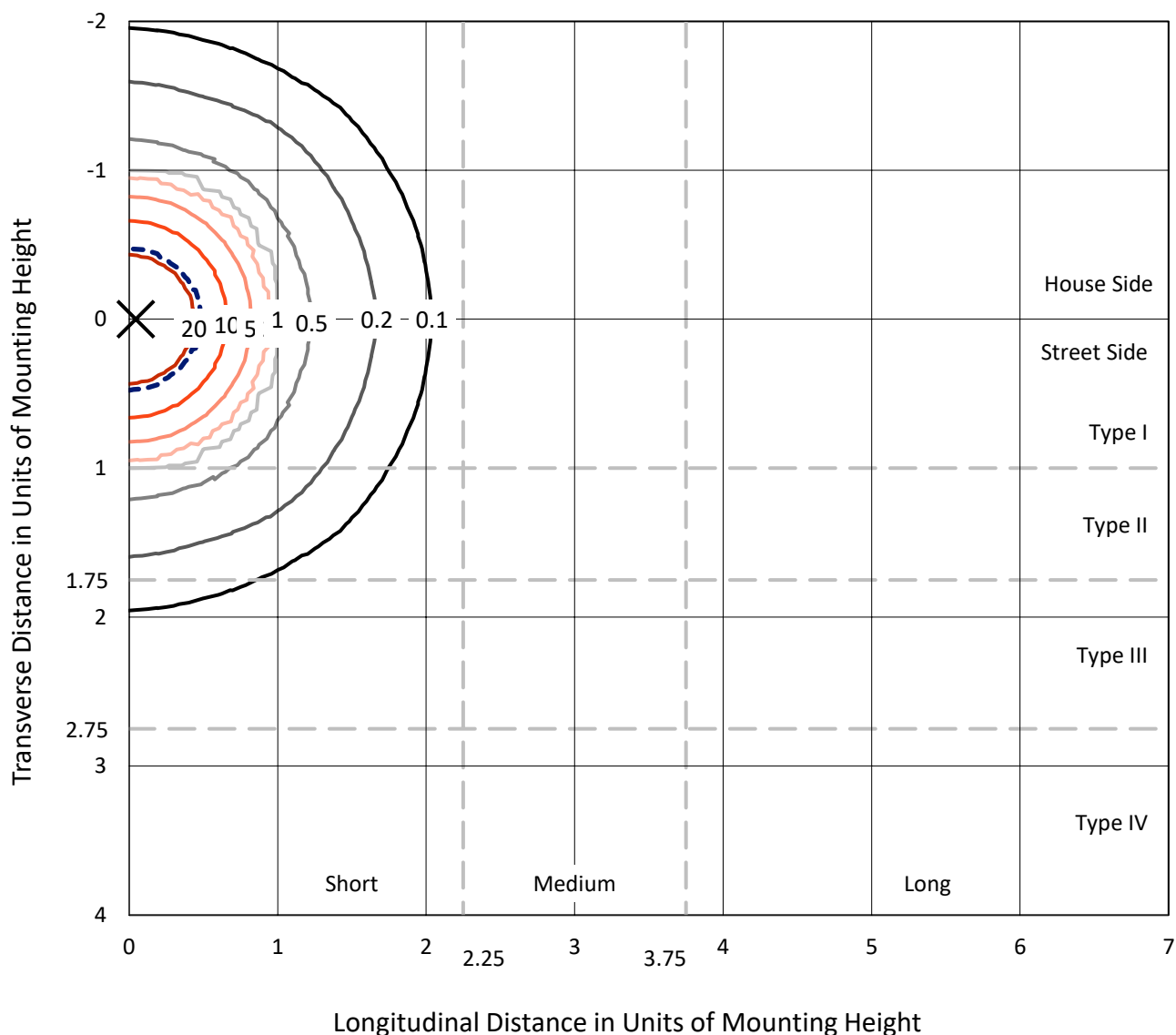
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

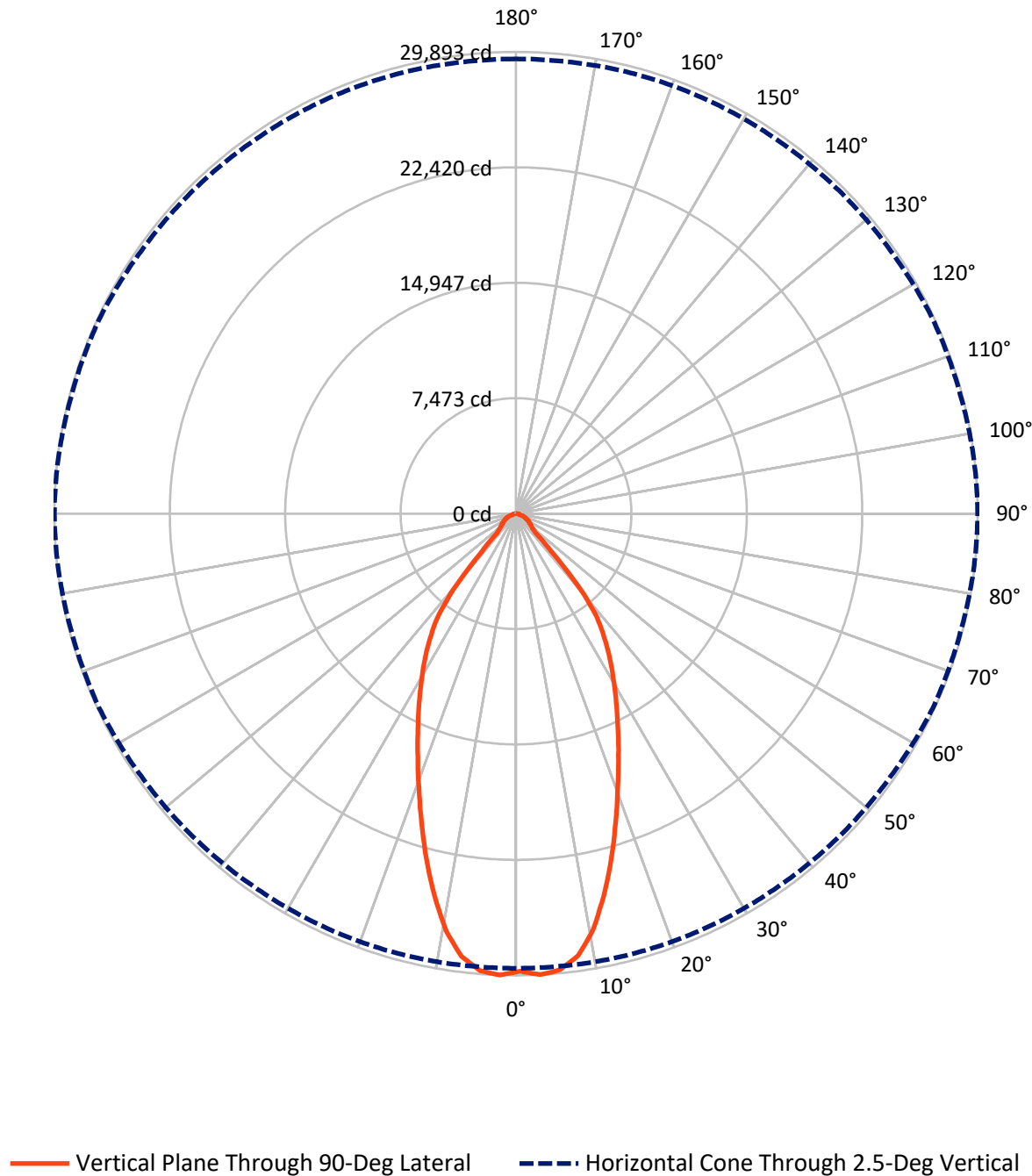


Based on 25 foot mounting height. Maximum calculated value = 47.4 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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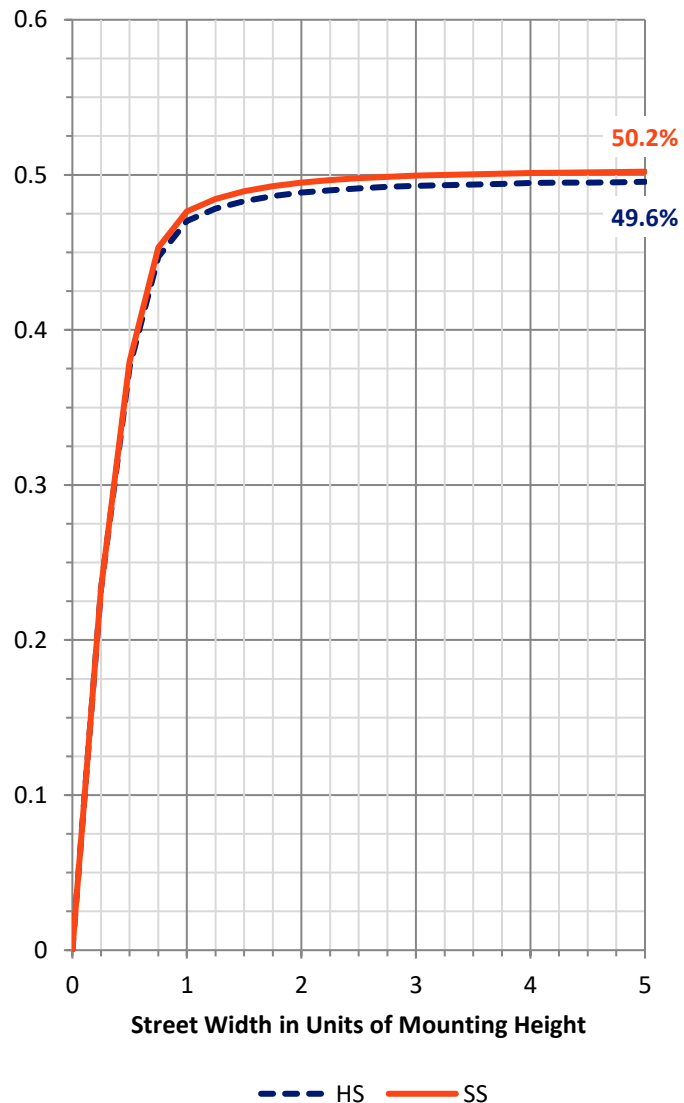
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12940.8	0.0	12940.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12940.8	0.0	12940.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	25881.6	0.0	25881.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2731.1	10.6
10°-20°	6304.6	24.4
20°-30°	6921.9	26.7
30°-40°	6001.8	23.2
40°-50°	1974.8	7.6
50°-60°	885.4	3.4
60°-70°	625.8	2.4
70°-80°	339.8	1.3
80°-90°	96.4	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°	25881.6	100.0
0°-180°	25881.6	100.0

Coefficient of Utilization



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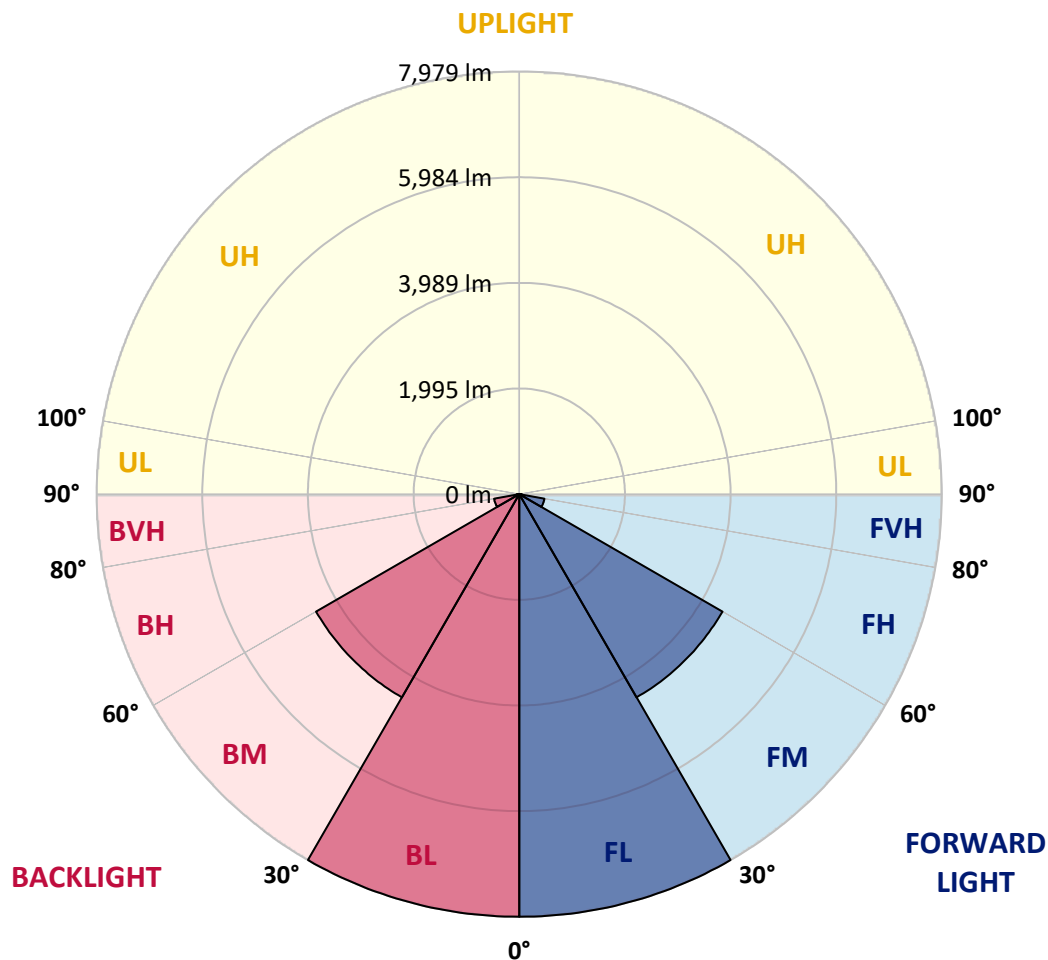
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7978.8	30.8			
FM	(30°-60°)	4431.0	17.1			
FH	(60°-80°)	482.8	1.9			G0/660
FVH	(80°-90°)	48.2	0.2			G1/100
BL	(0°-30°)	7978.8	30.8	B5		
BM	(30°-60°)	4431.0	17.1	B3/5000		
BH	(60°-80°)	482.8	1.9	B1/500		G0/660
BVH	(80°-90°)	48.2	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	29626.4	29626.4	29626.4	29626.4	29626.4	29626.4	29626.4	29626.4	29626.4	29626.4
2.5°	29442.1	29438.1	29485.2	29508.7	29520.5	29575.4	29630.3	29775.4	29779.3	29865.6
5°	29402.8	29367.5	29398.9	29351.9	29363.6	29363.6	29434.2	29540.1	29579.3	29665.6
7.5°	28528.4	28520.5	28500.9	28449.9	28512.7	28469.5	28598.9	28693.1	28783.3	28826.4
10°	26897.1	26822.5	26822.5	26752.0	26814.7	26755.9	26967.6	27053.9	27206.8	27297.0
12.5°	24787.3	24756.0	24759.9	24728.5	24724.6	24642.2	24889.3	24963.8	25101.0	25234.4
15°	22536.4	22489.4	22532.5	22532.5	22497.2	22422.7	22685.4	22787.4	22987.4	23050.1
17.5°	20313.0	20293.4	20320.8	20332.6	20305.1	20234.6	20489.4	20713.0	20850.2	20850.2
20°	18273.8	18266.0	18301.3	18266.0	18238.5	18191.5	18426.8	18642.5	18764.0	18771.9
22.5°	16481.7	16524.9	16493.5	16450.4	16391.6	16356.3	16571.9	16771.9	16854.3	16936.6
25°	14909.3	14921.0	14944.5	14877.9	14807.3	14764.2	14924.9	15093.6	15223.0	15270.0
27.5°	13615.2	13658.3	13599.5	13497.5	13458.3	13407.4	13521.1	13642.6	13736.8	13803.4
30°	12356.4	12379.9	12391.7	12285.8	12191.7	12117.2	12211.3	12317.2	12352.5	12411.3
32.5°	11148.6	11187.8	11227.0	11097.6	11031.0	10960.4	11007.4	11074.1	11093.7	11097.6
35°	9944.7	9917.3	9882.0	9834.9	9784.0	9697.7	9744.7	9768.3	9784.0	9784.0
37.5°	8489.9	8513.4	8521.3	8431.1	8407.5	8348.7	8380.1	8384.0	8415.4	8435.0
40°	6423.3	6505.6	6450.7	6395.8	6403.7	6333.1	6321.3	6305.7	6376.2	6403.7
42.5°	3494.0	3635.2	3490.1	3537.1	3501.8	3462.6	3450.9	3470.5	3380.3	3305.8
45°	1756.8	1749.0	1780.3	1780.3	1811.7	1823.5	1796.0	1772.5	1760.7	1729.3
47.5°	1415.6	1392.1	1388.2	1407.8	1431.3	1447.0	1423.5	1411.7	1407.8	1427.4
50°	1215.6	1180.3	1168.6	1196.0	1215.6	1231.3	1211.7	1211.7	1207.8	1239.2
52.5°	1058.8	1023.5	1023.5	1078.4	1094.1	1109.8	1098.0	1098.0	1098.0	1133.3
55°	937.2	909.8	878.4	949.0	1000.0	1015.6	1007.8	1003.9	1007.8	1047.0
57.5°	843.1	827.4	807.8	823.5	901.9	921.5	917.6	917.6	925.5	956.8
60°	752.9	745.1	737.2	737.2	800.0	835.3	831.3	831.3	839.2	858.8
62.5°	670.6	662.7	654.9	662.7	686.2	741.1	741.1	745.1	756.8	764.7
65°	588.2	584.3	584.3	588.2	596.1	639.2	654.9	666.6	678.4	682.3
67.5°	509.8	505.9	509.8	517.6	517.6	537.2	572.5	584.3	596.1	596.1
70°	411.7	431.4	443.1	447.0	454.9	458.8	490.2	513.7	525.5	509.8
72.5°	223.5	254.9	384.3	396.1	400.0	403.9	427.4	454.9	462.7	301.9
75°	160.8	160.8	321.6	341.2	345.1	345.1	364.7	392.1	400.0	231.4
77.5°	105.9	102.0	223.5	247.0	282.3	227.4	298.0	329.4	337.2	192.1
80°	82.3	78.4	172.5	192.1	196.1	156.9	243.1	266.7	270.6	156.9
82.5°	62.7	58.8	125.5	141.2	152.9	102.0	172.5	203.9	211.8	137.2
85°	35.3	35.3	62.7	58.8	90.2	66.7	98.0	102.0	137.2	86.3
87.5°	11.8	15.7	27.4	27.4	31.4	27.4	39.2	39.2	43.1	31.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

29626.4
29893.0
29681.3
28897.0
27395.1
25324.6
23136.4
20901.2
18815.0
16983.7
15301.4
13823.0
12423.1
11144.7
9831.0
8517.3
6439.0
3341.1
1756.8
1443.1
1278.4
1172.5
1070.5
980.4
874.5
776.4
690.2
596.1
451.0
258.8
227.4
188.2
141.2
141.2
82.3
23.5
0.0