

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: P232782

Luminaire Tested: **CST-10-9-D-U-T5N-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232782
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1707-171-22)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-10-9-D-U-T5N-7050
Description: CELESTEON HIGH MAST LUMINAIRE
(10) 70 CRI, 5000K LEDS AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 103536 lumens
Efficiency: N/A
Efficacy: 136.2 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G5

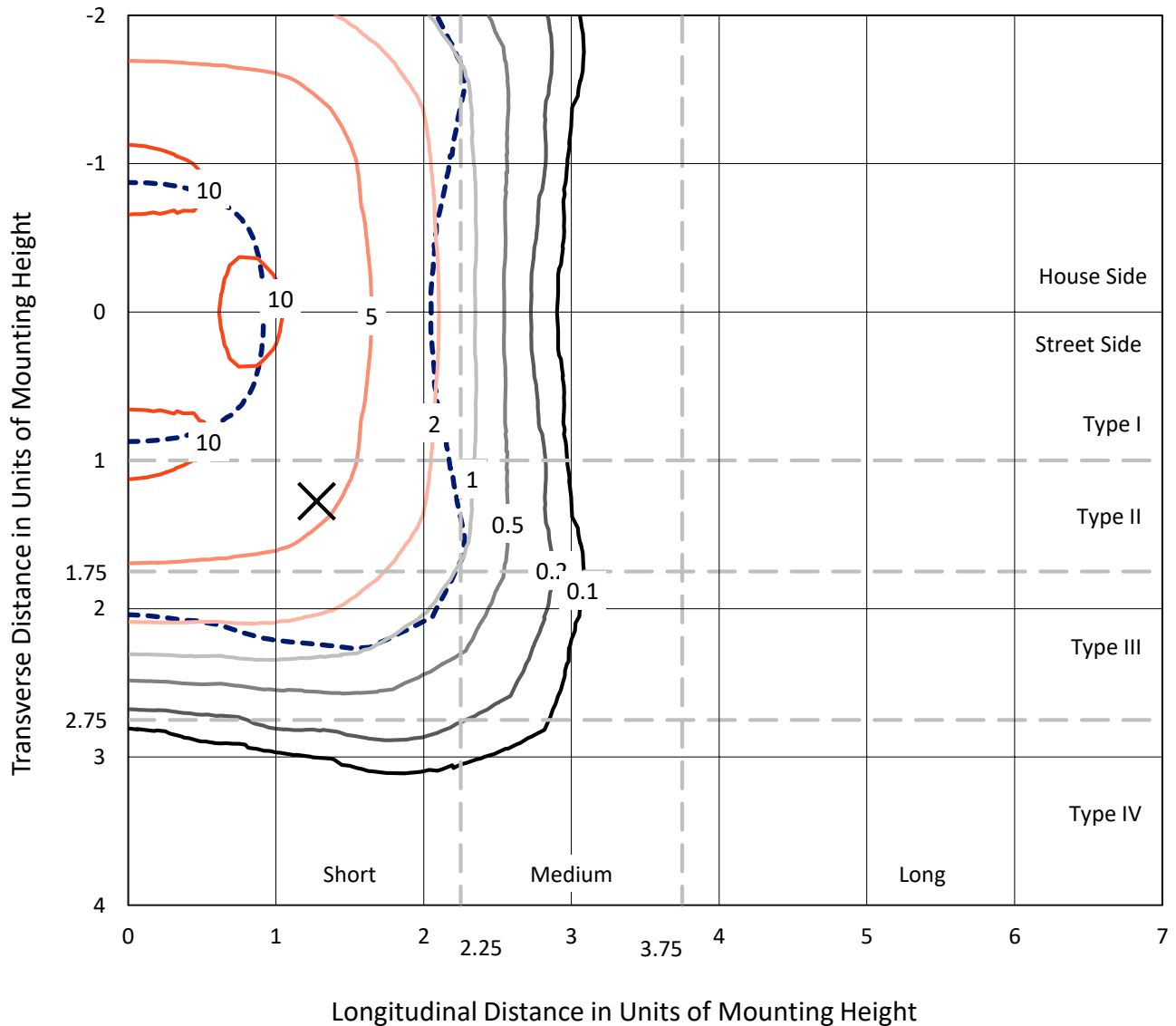
Input Watts (W): 760
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

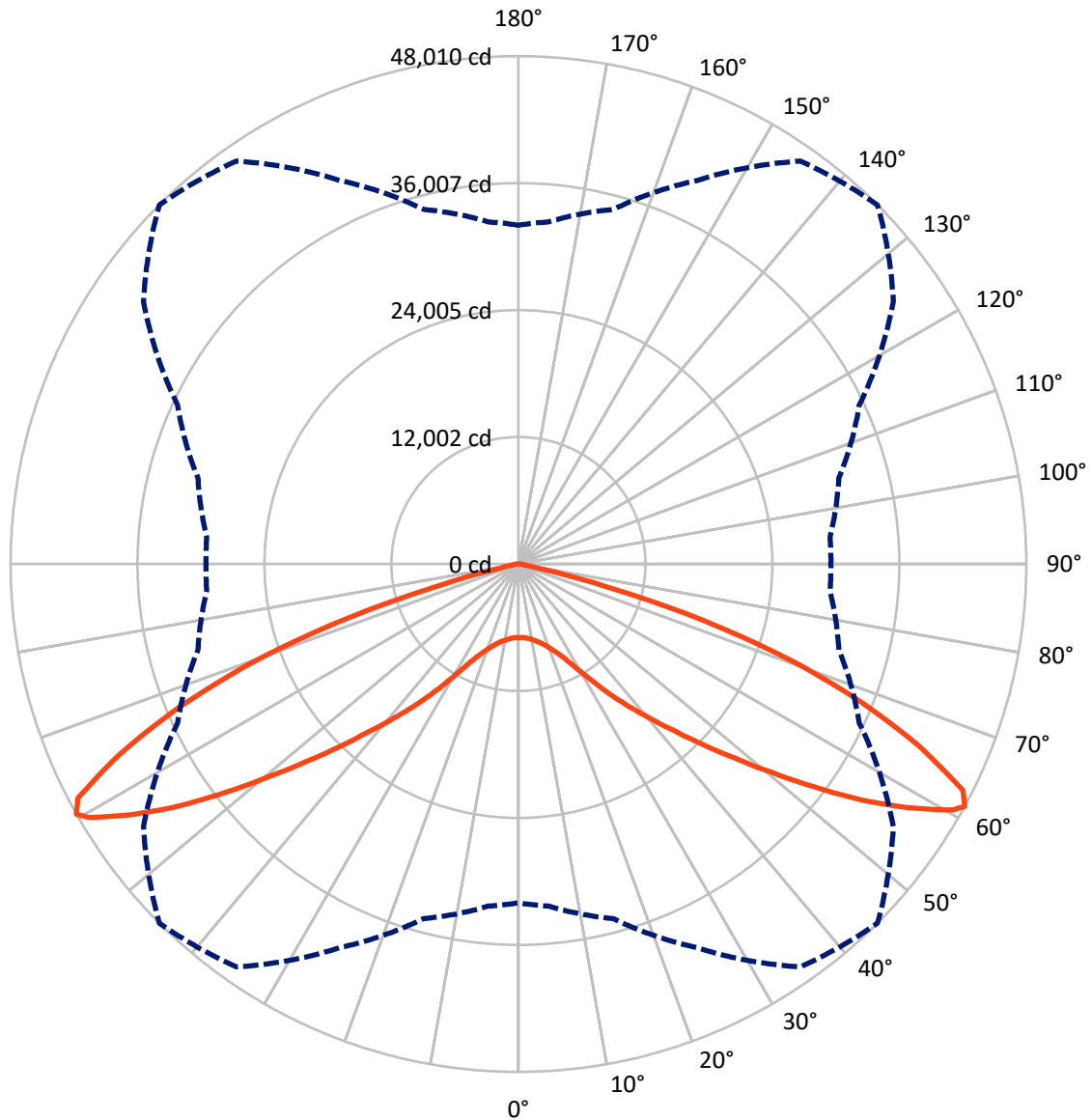


Based on 30 foot mounting height. Maximum calculated value = 11.3 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 61-Deg Vertical

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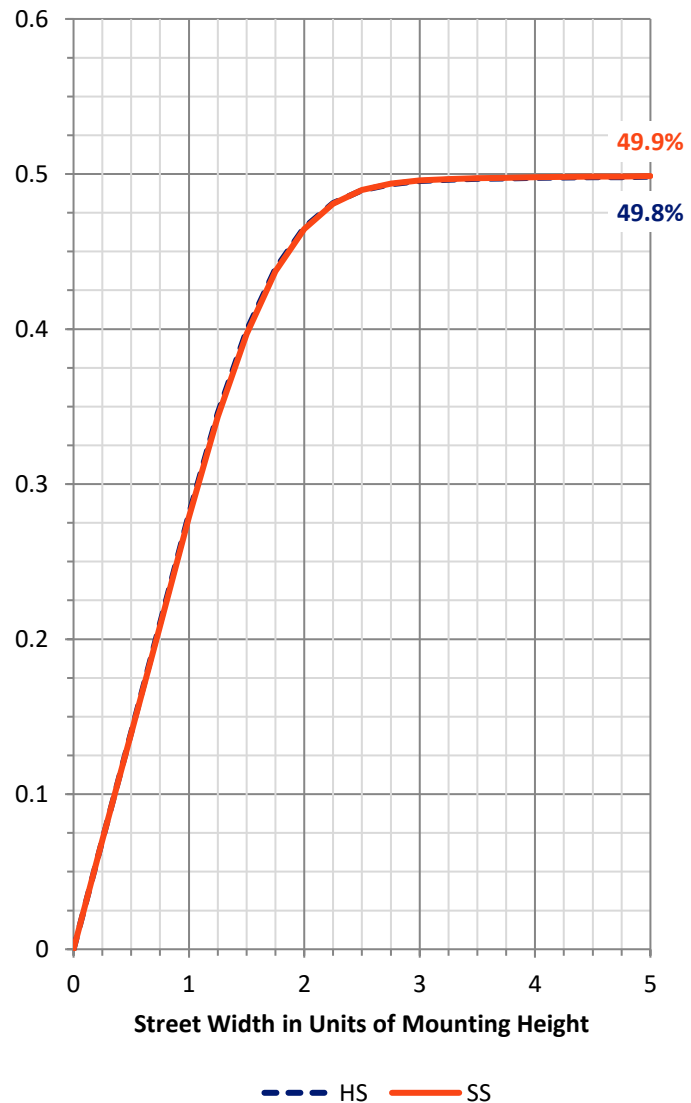
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	51768.0	0.0	51768.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	51768.0	0.0	51768.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	103536.0	0.0	103536.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	680.9	0.7
10°-20°	2231.1	2.2
20°-30°	4760.3	4.6
30°-40°	10368.5	10.0
40°-50°	20050.7	19.4
50°-60°	31841.2	30.8
60°-70°	28714.1	27.7
70°-80°	4494.4	4.3
80°-90°	394.9	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°	103536.0	100.0
0°-180°	103536.0	100.0



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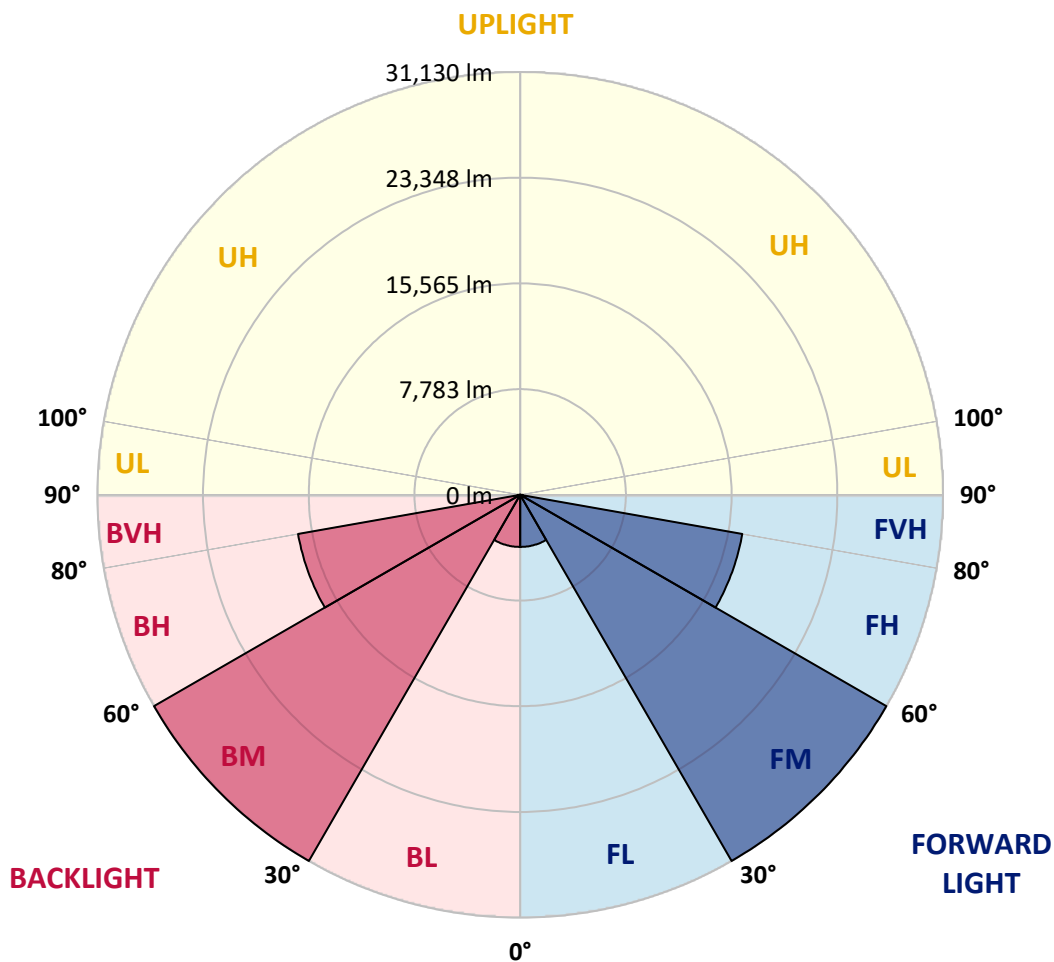
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3836.1	3.7			
FM (30°-60°)	31130.2	30.1			
FH (60°-80°)	16604.2	16.0			G5
FVH (80°-90°)	197.5	0.2			G2/225
BL (0°-30°)	3836.1	3.7	B4/5000		
BM (30°-60°)	31130.2	30.1	B5		
BH (60°-80°)	16604.2	16.0	B5		G5
BVH (80°-90°)	197.5	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6969.5	6969.5	6969.5	6969.5	6969.5	6969.5	6969.5	6969.5	6969.5	6969.5	6969.5
2.5°	7017.5	7002.5	7014.5	7023.5	6918.5	6945.5	6942.5	7014.5	6999.5	7032.5	7050.5
5°	7065.5	7041.5	7056.5	7080.5	6981.5	7017.5	7017.5	7083.5	7059.5	7092.5	7125.5
7.5°	7152.4	7128.5	7146.4	7176.4	7083.5	7122.5	7125.5	7203.4	7170.4	7197.4	7248.4
10°	7296.4	7281.4	7287.4	7314.4	7227.4	7275.4	7275.4	7359.4	7323.4	7353.4	7416.3
12.5°	7464.3	7458.3	7464.3	7500.3	7419.3	7467.3	7467.3	7548.3	7524.3	7560.3	7620.3
15°	7686.3	7680.3	7683.3	7731.2	7665.3	7710.2	7719.2	7803.2	7797.2	7836.2	7890.2
17.5°	8001.1	8001.1	7998.1	8040.1	7998.1	8043.1	8061.1	8151.1	8187.1	8235.1	8268.0
20°	8481.0	8454.0	8439.0	8460.0	8427.0	8475.0	8505.0	8651.9	8711.9	8786.9	8813.8
22.5°	9107.7	9071.8	9023.8	9002.8	8957.8	9020.8	9080.8	9290.7	9377.6	9500.6	9530.6
25°	9971.4	9911.5	9821.5	9737.5	9635.6	9725.5	9836.5	10124.4	10304.3	10466.3	10490.3
27.5°	11153.0	11063.0	10925.1	10763.2	10583.2	10694.2	10856.1	11276.0	11521.9	11779.8	11818.8
30°	12676.5	12661.5	12445.6	12157.7	11917.7	11980.7	12181.6	12700.5	13090.3	13357.2	13432.2
32.5°	14709.7	14694.7	14331.9	13846.1	13504.2	13546.2	13732.1	14307.9	14793.7	15228.6	15243.6
35°	17132.9	17084.9	16575.1	15903.3	15354.5	15306.5	15489.5	16062.3	16725.0	17231.8	17282.8
37.5°	19900.9	19822.9	19235.1	18218.5	17369.8	17171.9	17300.8	18020.6	18788.3	19361.1	19418.1
40°	22611.9	22551.9	21898.2	20944.5	19703.0	19202.1	19211.1	20131.8	20974.5	21505.3	21622.3
42.5°	25224.0	25272.0	24645.2	23673.5	22375.0	21481.3	21493.3	22387.0	23259.7	23811.5	23964.4
45°	27905.0	27863.0	27275.3	26441.5	25245.0	24255.3	23919.5	24813.1	25679.8	26132.7	26297.6
47.5°	30100.2	30025.3	29629.4	29188.6	28300.9	27326.2	26735.4	27356.2	27953.0	28258.9	28426.8
50°	32013.6	31953.6	31914.6	31728.7	31530.7	30901.0	29929.3	29890.3	30019.3	30085.2	30238.2
52.5°	33633.0	33630.0	33839.9	34295.7	34784.6	35003.5	33321.1	32232.5	31788.6	31461.8	31518.7
55°	34853.5	34838.5	35435.3	36655.9	38383.3	39372.9	36889.8	34259.8	33090.2	32457.4	32451.4
57.5°	35480.3	35507.3	36718.9	38929.1	42131.9	43481.5	40320.6	36122.1	34118.8	33156.1	33144.2
60°	33824.9	33938.9	36314.0	40338.6	45445.8	47209.1	43130.6	36508.9	33003.2	31386.8	31344.8
61°	32031.6	32460.4	34706.6	40017.7	46495.4	48009.8	43265.5	35549.3	31359.8	29575.4	29536.4
62.5°	28088.0	28489.8	31926.6	39217.0	46423.4	47170.1	42497.8	33824.9	28780.7	26792.4	26711.5
65°	20380.7	20854.5	24555.2	34745.6	42200.9	41757.1	38656.2	29866.3	24135.4	21898.2	21796.2
67.5°	10247.3	10853.1	15006.6	25215.0	34286.7	35129.4	33003.2	23646.5	17105.9	12916.4	12904.4
70°	2648.1	2906.0	5410.1	13261.3	24726.2	27515.2	25164.0	13699.1	6651.6	4012.6	3763.7
72.5°	740.7	776.7	1469.5	4831.3	14062.0	18434.4	13642.1	4789.3	1499.5	854.7	782.7
75°	521.8	530.8	584.8	1223.6	5311.1	8603.9	4396.4	1034.6	599.8	566.8	566.8
77.5°	464.8	470.8	506.8	659.8	1112.6	1934.3	842.7	668.8	527.8	509.8	503.8
80°	491.8	497.8	518.8	638.8	653.8	695.8	584.8	578.8	524.8	536.8	530.8
82.5°	527.8	539.8	566.8	653.8	560.8	563.8	479.8	476.8	464.8	527.8	530.8
85°	467.8	488.8	509.8	572.8	461.8	377.9	392.9	311.9	332.9	395.9	380.9
87.5°	260.9	257.9	248.9	260.9	233.9	188.9	158.9	143.9	132.0	149.9	146.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)