

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: P510503

Luminaire Tested: **CST-CA10-310-750-U-T5N**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510503
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-CA10-310-750-U-T5N
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52585 lumens
Efficiency: N/A
Efficacy: 168.3 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

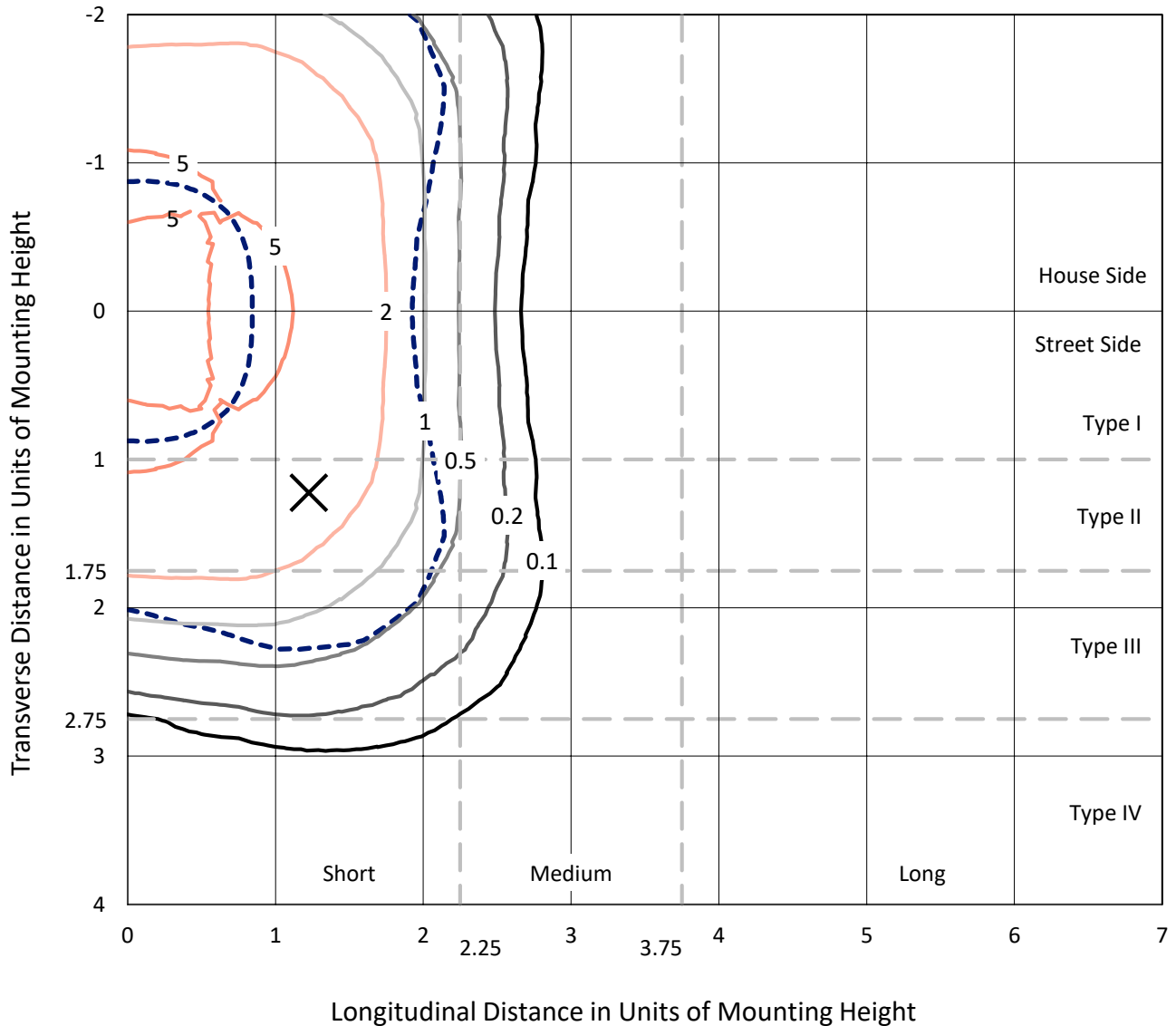
Input Watts (W): 312.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

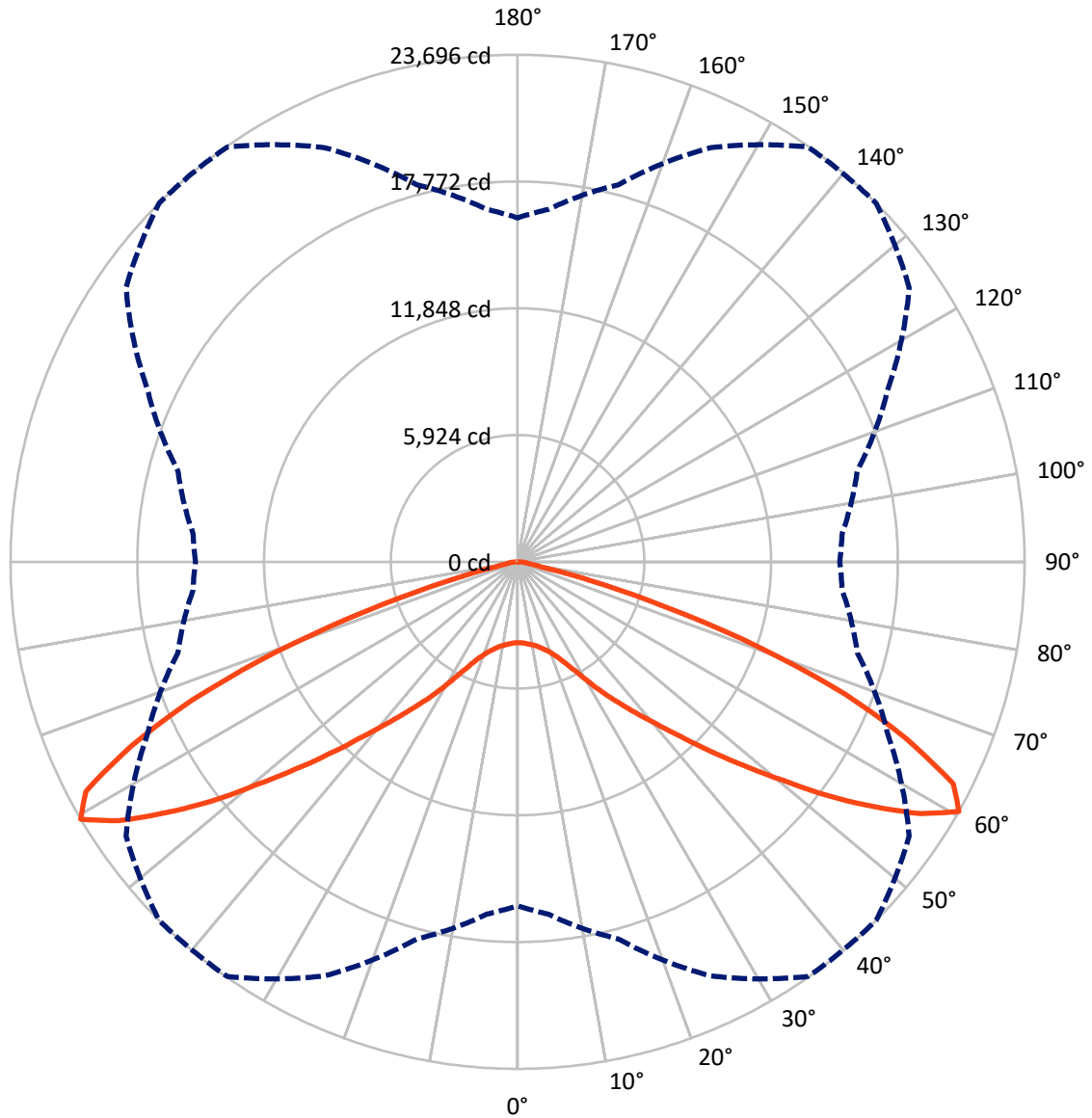
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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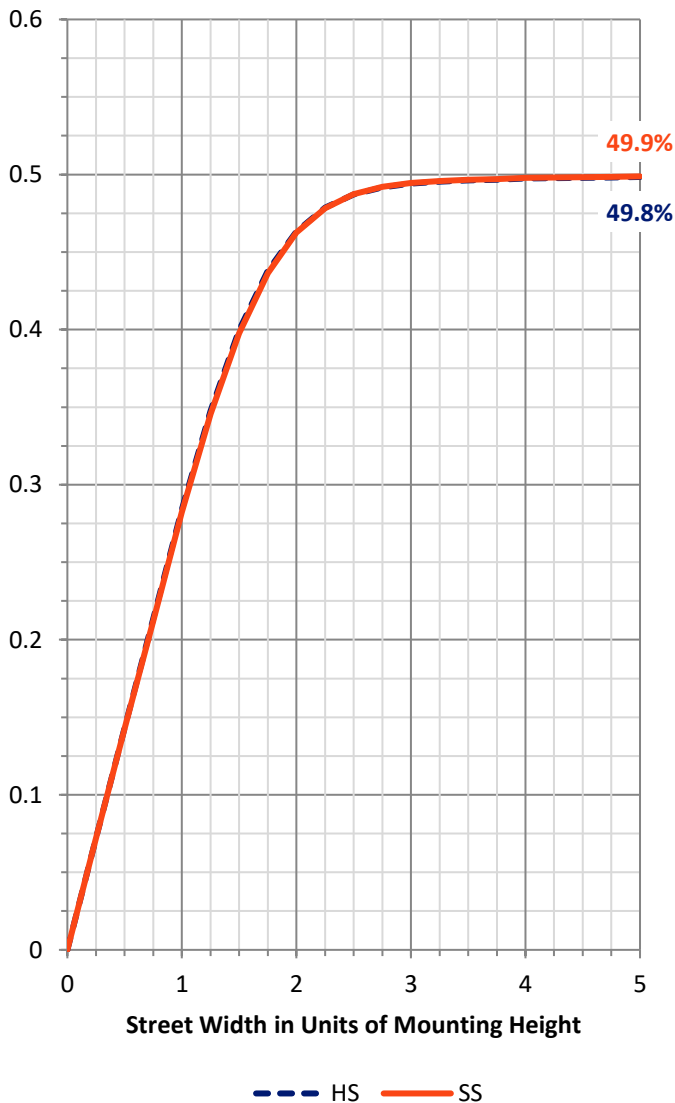
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	26292.5	0.0	26292.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	26292.5	0.0	26292.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	52585.0	0.0	52585.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.5	0.7
10°-20°	1204.6	2.3
20°-30°	2558.5	4.9
30°-40°	5424.9	10.3
40°-50°	10316.7	19.6
50°-60°	16366.9	31.1
60°-70°	13834.4	26.3
70°-80°	2276.0	4.3
80°-90°	233.4	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°	52585.0	100.0
0°-180°	52585.0	100.0



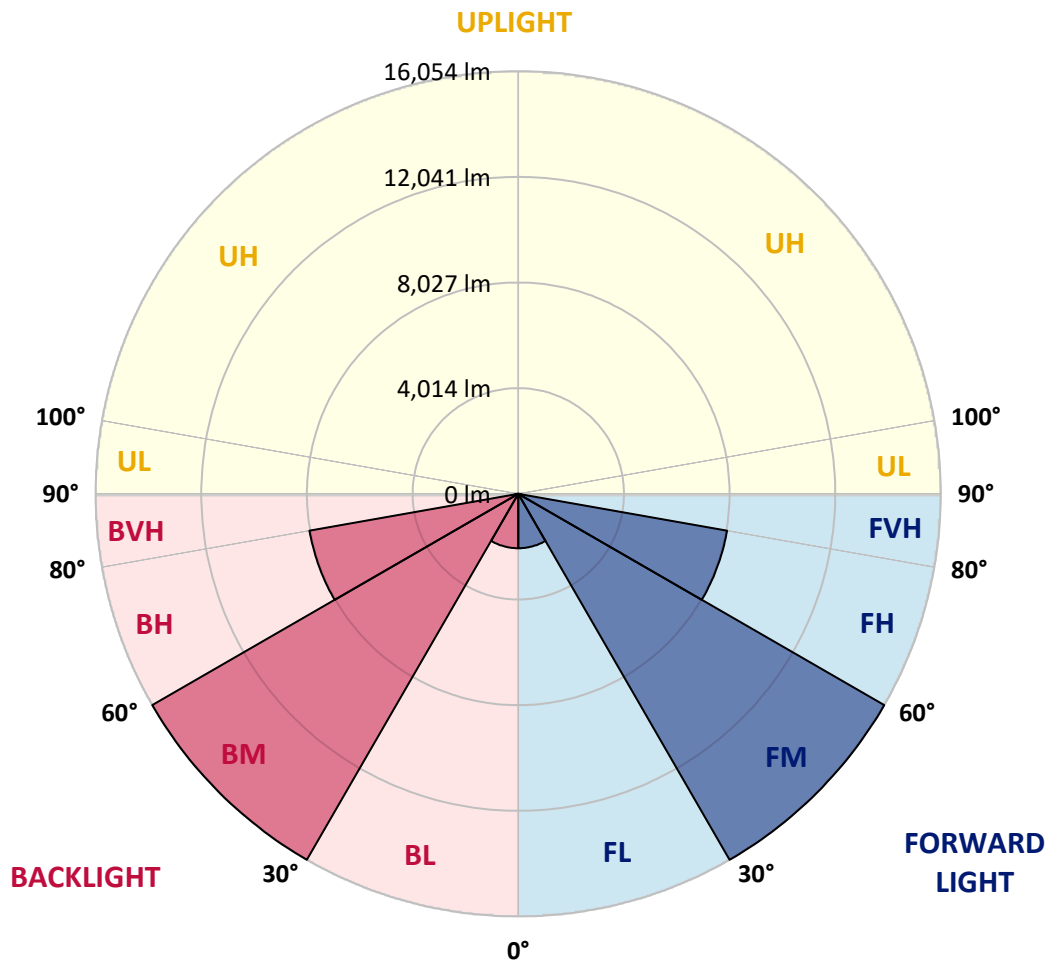
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2066.3	3.9			
FM (30°-60°)	16054.3	30.5			
FH (60°-80°)	8055.2	15.3			G4/12000
FVH (80°-90°)	116.7	0.2			G2/225
BL (0°-30°)	2066.3	3.9	B3/2500		
BM (30°-60°)	16054.3	30.5	B5		
BH (60°-80°)	8055.2	15.3	B5		G4/12000
BVH (80°-90°)	116.7	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-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3775.4	3775.4	3775.4	3775.4	3775.4	3775.4	3775.4	3775.4	3775.4	3775.4	3775.4
2.5°	3802.7	3793.3	3790.3	3786.3	3788.3	3789.3	3794.7	3795.2	3795.2	3800.2	3808.6
5°	3845.3	3832.9	3828.4	3823.5	3826.0	3828.4	3833.4	3836.4	3835.9	3838.9	3846.3
7.5°	3891.4	3886.9	3881.5	3878.5	3878.5	3885.4	3882.0	3887.4	3886.9	3890.4	3894.9
10°	3959.8	3949.9	3949.4	3943.9	3946.4	3952.3	3953.3	3952.3	3953.3	3955.3	3965.7
12.5°	4046.5	4044.0	4045.5	4041.1	4039.6	4046.0	4047.5	4053.9	4055.9	4061.9	4068.3
15°	4186.3	4170.4	4168.4	4167.9	4170.9	4180.8	4183.8	4195.7	4201.1	4209.6	4223.9
17.5°	4344.4	4349.8	4339.9	4338.9	4338.4	4346.3	4354.3	4380.5	4389.0	4408.3	4420.7
20°	4596.6	4586.7	4580.8	4557.0	4551.0	4564.9	4593.6	4628.3	4644.7	4675.4	4698.7
22.5°	4933.6	4916.8	4876.1	4847.9	4836.0	4859.8	4891.0	4946.5	5012.4	5050.6	5061.0
25°	5420.8	5354.4	5303.8	5253.8	5235.9	5271.1	5321.7	5409.9	5492.6	5569.0	5604.1
27.5°	6014.0	5971.9	5871.3	5792.5	5761.3	5791.0	5896.1	6020.4	6172.1	6251.4	6263.3
30°	6767.3	6745.5	6617.1	6469.5	6413.9	6465.5	6589.4	6758.9	6970.0	7133.0	7161.8
32.5°	7700.0	7589.5	7411.1	7242.1	7182.6	7245.5	7369.9	7613.3	7897.7	8078.1	8139.6
35°	8769.5	8644.6	8376.5	8116.8	8040.0	8047.9	8247.1	8590.1	8979.1	9230.9	9299.8
37.5°	9949.0	9821.6	9505.4	9102.5	8924.6	8938.0	9198.7	9644.7	10178.0	10452.5	10543.7
40°	11207.8	11076.0	10749.9	10295.9	10003.5	9944.0	10292.4	10835.6	11377.3	11708.4	11743.5
42.5°	12438.4	12282.2	12020.1	11566.1	11299.5	11139.9	11560.7	12052.8	12598.9	12897.3	12920.6
45°	13537.6	13507.3	13296.7	12967.6	12748.1	12606.9	12907.2	13395.8	13777.4	13966.3	14035.2
47.5°	14600.1	14581.3	14513.9	14398.9	14453.4	14218.5	14362.7	14584.3	14793.9	14932.7	14986.2
50°	15531.3	15551.2	15683.5	15879.2	16273.7	16035.9	15990.8	15752.4	15758.3	15769.2	15824.7
52.5°	16300.5	16405.6	16738.6	17329.3	18181.3	18175.8	17493.4	16864.0	16579.5	16453.1	16464.5
55°	16971.0	17150.9	17701.0	18920.7	20139.8	20200.8	19272.6	17878.5	17345.2	17075.6	17110.8
57.5°	17341.2	17615.3	18546.5	20398.1	22135.6	22208.9	21175.1	19002.0	17780.8	17098.4	17127.6
60°	16070.5	16531.9	18248.7	21351.1	23662.0	23695.7	22338.3	19090.2	16433.8	15226.1	15049.1
62.5°	13151.0	13790.3	16212.3	20612.6	22954.8	22850.2	21610.3	17437.4	13499.9	12034.9	11886.3
65°	9878.6	10479.8	13015.7	17649.5	20141.3	20003.6	18740.8	13781.4	9897.5	8342.3	8159.4
67.5°	5346.4	6254.4	8627.3	13482.1	16056.2	16523.5	14774.1	9605.6	5759.8	4175.9	4015.3
70°	1846.6	2386.3	4398.9	8463.2	11581.0	12049.8	10074.9	5151.7	2520.6	1576.0	1414.9
72.5°	655.7	755.8	1653.8	4087.1	6593.4	7305.5	5436.1	2072.1	803.4	585.3	573.4
75°	462.9	477.8	587.8	1332.6	2854.6	3496.4	2143.4	687.9	501.0	468.3	465.4
77.5°	413.3	421.7	476.3	542.7	872.2	1116.6	659.6	499.1	435.1	416.8	410.3
80°	393.0	399.4	415.3	445.0	494.6	514.4	445.0	426.7	396.0	388.0	385.6
82.5°	343.4	342.0	346.4	358.8	381.1	386.1	357.3	334.5	335.0	325.6	321.1
85°	232.4	246.3	235.9	223.0	276.5	278.0	259.2	194.3	220.5	216.1	197.7
87.5°	70.4	79.3	62.9	43.6	60.0	46.6	42.1	43.6	41.6	36.2	32.7
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)