

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: P510532

Luminaire Tested: **CST-CA10-630-727-U-T5**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510532
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-CA10-630-727-U-T5
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 80604 lumens
Efficiency: N/A
Efficacy: 127.7 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

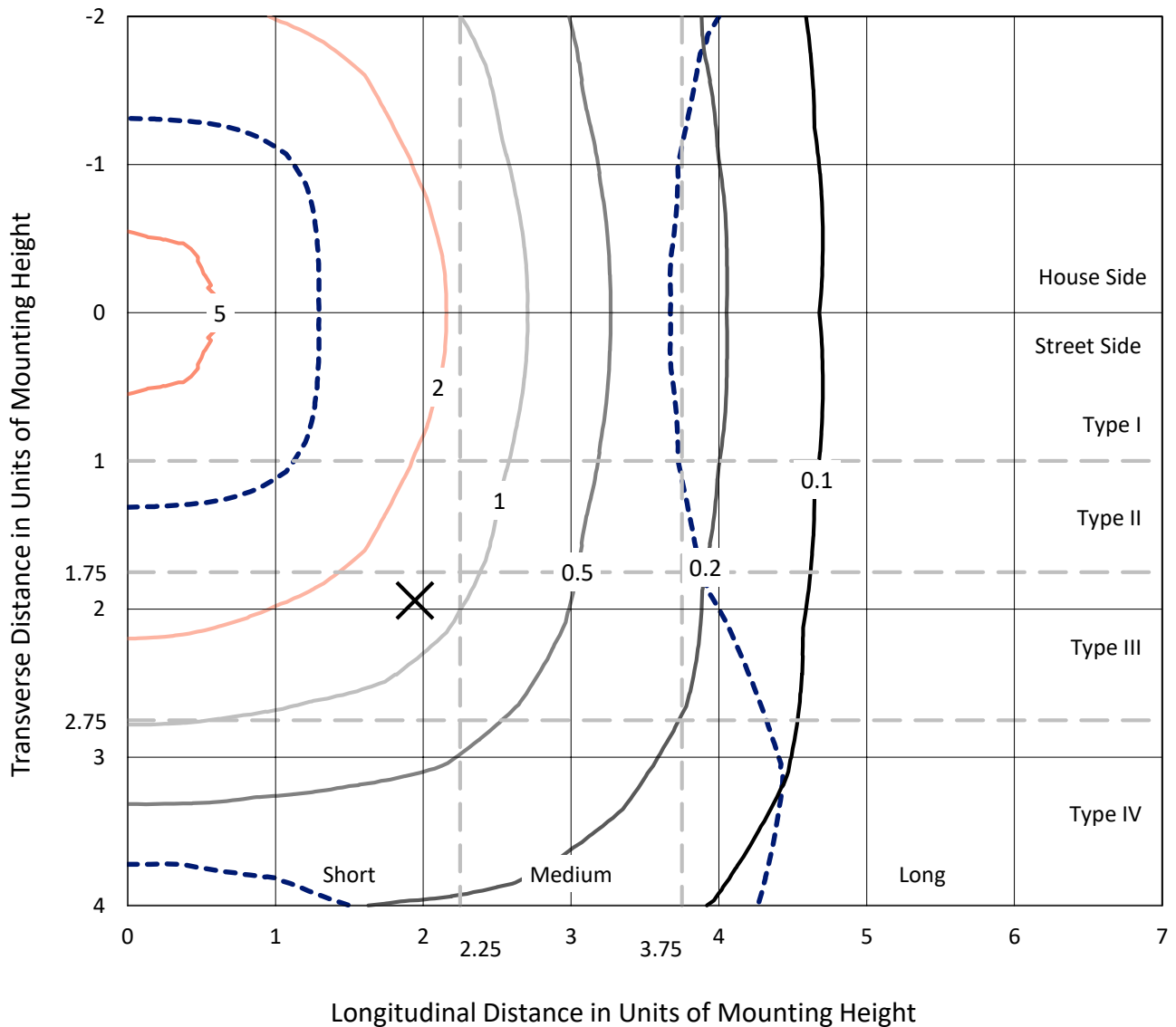
Input Watts (W): 631.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P510532
 CATALOG NUMBER: CST-CA10-630-727-U-T5

Iso-Footcandle Lines of Horizontal Illumination

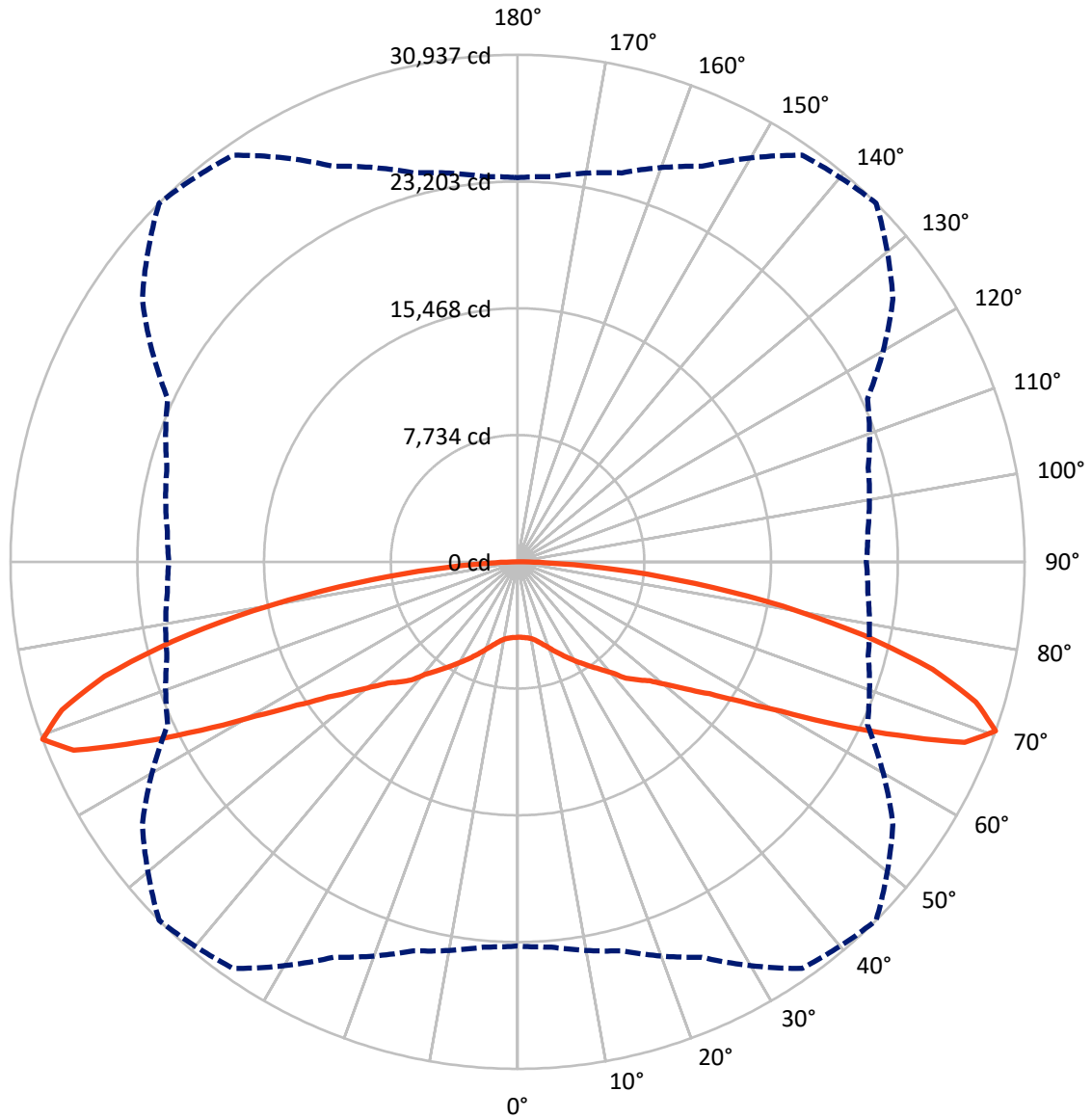
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.2 fc
 Type V - Short - N/A

REPORT NUMBER: P510532
CATALOG NUMBER: CST-CA10-630-727-U-T5

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P510532
 CATALOG NUMBER: CST-CA10-630-727-U-T5

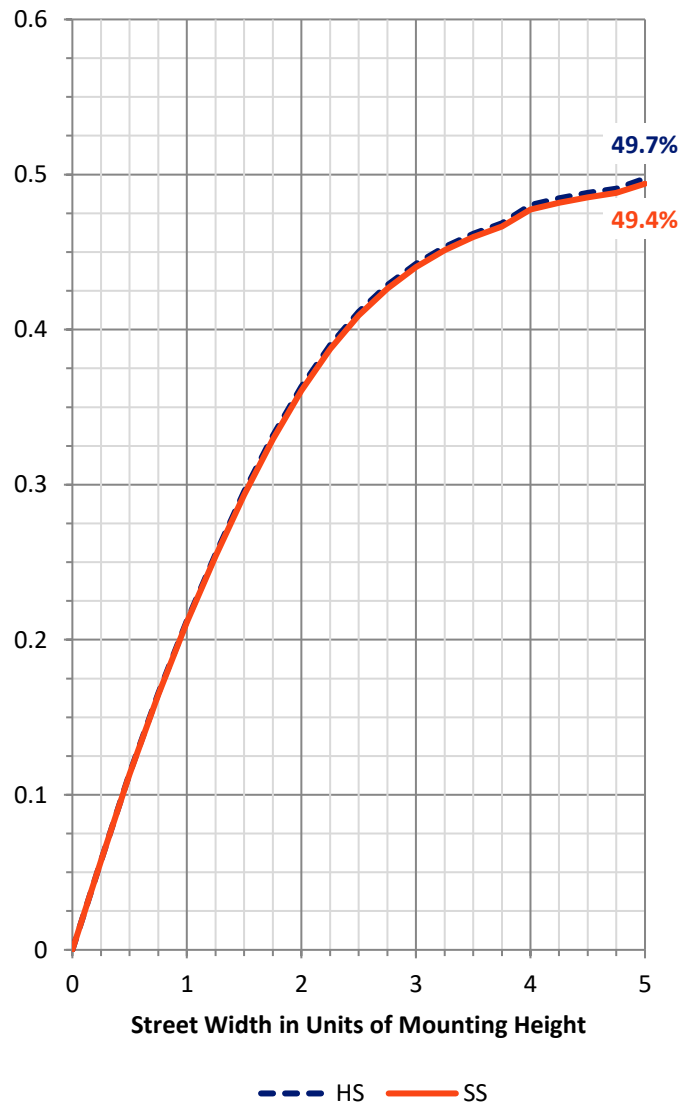
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	40302.0	0.0	40302.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	40302.0	0.0	40302.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	80604.0	0.0	80604.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	447.8	0.6
10°-20°	1458.3	1.8
20°-30°	2886.9	3.6
30°-40°	4994.1	6.2
40°-50°	8309.4	10.3
50°-60°	14493.0	18.0
60°-70°	23992.5	29.8
70°-80°	20107.6	24.9
80°-90°	3914.3	4.9
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°	80604.0	100.0
0°-180°	80604.0	100.0

Coefficient of Utilization

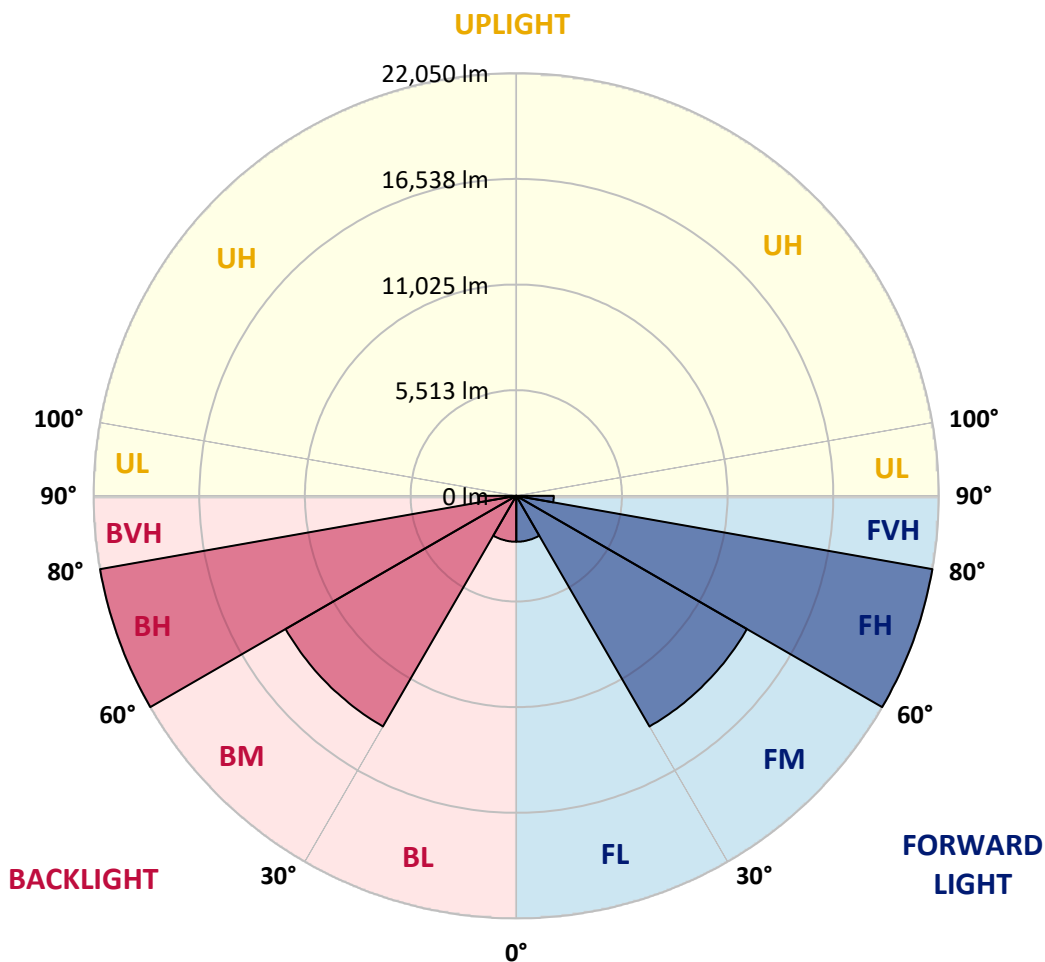


REPORT NUMBER: P510532
 CATALOG NUMBER: CST-CA10-630-727-U-T5

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2396.5	3.0			
FM (30°-60°)	13898.3	17.2			
FH (60°-80°)	22050.0	27.4			G5
FVH (80°-90°)	1957.1	2.4			G5
BL (0°-30°)	2396.5	3.0	B3/2500		
BM (30°-60°)	13898.3	17.2	B5		
BH (60°-80°)	22050.0	27.4	B5		G5
BVH (80°-90°)	1957.1	2.4			G5
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





REPORT NUMBER: P510532
 CATALOG NUMBER: CST-CA10-630-727-U-T5

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4606.8	4606.8	4606.8	4606.8	4606.8	4606.8	4606.8	4606.8	4606.8	4606.8	4606.8
2.5°	4635.5	4621.1	4616.4	4611.6	4614.8	4613.2	4621.1	4624.3	4627.5	4641.9	4633.9
5°	4664.2	4653.1	4651.5	4645.1	4643.5	4643.5	4654.7	4656.3	4657.9	4667.4	4657.9
7.5°	4716.9	4705.7	4702.5	4699.4	4697.8	4691.4	4699.4	4696.2	4699.4	4704.1	4693.0
10°	4799.9	4787.2	4784.0	4776.0	4780.8	4771.2	4777.6	4769.6	4755.2	4758.4	4742.5
12.5°	4913.3	4902.1	4906.9	4905.3	4924.4	4919.6	4906.9	4890.9	4867.0	4851.0	4833.4
15°	5080.9	5063.3	5076.1	5088.8	5108.0	5116.0	5106.4	5063.3	5028.2	5002.6	4988.3
17.5°	5285.2	5256.4	5282.0	5307.5	5349.0	5357.0	5321.9	5269.2	5230.9	5219.7	5195.8
20°	5523.0	5518.2	5519.8	5561.3	5625.2	5636.4	5590.1	5527.8	5489.5	5491.1	5464.0
22.5°	5810.3	5784.8	5792.8	5834.3	5925.3	5955.6	5879.0	5810.3	5786.4	5792.8	5789.6
25°	6139.2	6115.2	6104.1	6123.2	6241.3	6294.0	6220.6	6140.8	6129.6	6144.0	6121.6
27.5°	6499.9	6477.6	6464.8	6474.4	6567.0	6665.9	6584.5	6517.5	6515.9	6536.6	6523.9
30°	6910.2	6876.6	6862.3	6873.4	6937.3	7033.1	6967.6	6927.7	6961.2	6975.6	6970.8
32.5°	7325.2	7309.2	7304.4	7301.2	7379.5	7433.7	7401.8	7409.8	7436.9	7502.4	7481.6
35°	7797.7	7751.4	7764.2	7773.7	7875.9	7880.7	7883.9	7898.2	7970.1	8062.7	8008.4
37.5°	8289.3	8278.1	8286.1	8259.0	8334.0	8364.3	8409.0	8456.9	8570.3	8677.2	8654.9
40°	8897.5	8876.7	8884.7	8852.8	8889.5	8913.5	9004.4	9108.2	9253.5	9368.4	9315.7
42.5°	9703.6	9650.9	9650.9	9660.5	9737.1	9711.6	9906.3	9935.1	10115.4	10212.8	10182.5
45°	10651.8	10632.6	10532.1	10362.8	10267.1	10265.5	10421.9	10655.0	10953.5	11156.2	11154.6
47.5°	11856.9	11797.9	11556.8	11149.8	10907.2	10848.1	11012.5	11465.9	12015.0	12331.0	12326.2
50°	13437.2	13362.2	12996.7	12364.5	11892.1	11746.8	12010.2	12597.6	13336.7	13758.1	13793.2
52.5°	15205.9	15212.3	14798.8	13842.7	13143.5	12881.7	13161.1	14000.7	14921.7	15499.6	15568.2
55°	17260.2	17210.8	16819.7	15735.8	14773.3	14211.4	14634.4	15747.0	16805.3	17245.9	17367.2
57.5°	19399.2	19206.1	18906.0	17892.4	16767.0	16048.7	16556.3	17644.9	18658.6	19220.4	19201.3
60°	21295.6	21167.9	20995.5	20187.8	19324.2	18503.7	18894.8	19815.8	20684.2	21024.2	21038.6
62.5°	23367.5	23260.5	23105.7	22663.5	22187.9	21883.0	21528.6	21954.8	22633.2	23005.1	23126.5
65°	25401.1	25362.8	25452.2	25385.1	25586.3	25541.6	24692.4	24424.2	24435.4	24330.0	24275.8
67.5°	25281.4	25267.0	25793.8	26844.1	28849.0	29417.3	27238.4	24812.1	23718.7	23440.9	23401.0
70°	23437.7	23592.6	24567.9	26623.8	30282.4	30936.9	27953.5	23549.5	22151.1	21455.2	21282.8
72.5°	19890.9	20194.1	21689.8	24717.9	29091.6	29241.7	26156.1	21649.9	19590.8	18760.7	18637.8
75°	15347.9	15386.2	16917.0	20765.6	25963.0	26151.3	23332.4	18158.9	16133.3	15100.5	15068.6
77.5°	9347.6	9892.0	12125.1	15569.8	20639.5	21619.6	19514.1	14463.6	12054.9	11140.2	10629.4
80°	4586.0	4835.0	6444.1	9844.1	14752.5	16395.1	14481.2	10003.7	7435.3	6274.9	6147.2
82.5°	2087.9	2220.4	3048.8	5146.3	8902.3	10937.5	8937.4	5728.9	3969.9	3104.7	3076.0
85°	810.9	806.1	1233.9	2159.7	4262.0	6056.2	4525.4	2732.8	1816.5	1350.4	1273.8
87.5°	236.2	252.2	362.3	708.7	1262.6	1701.6	1395.1	945.0	558.7	359.2	330.4
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)