

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: P232781

Luminaire Tested: **CST-10-8-D-U-T5N-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232781
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-10-8-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: 90170 lumens
Efficiency: N/A
Efficacy: 142.9 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G5

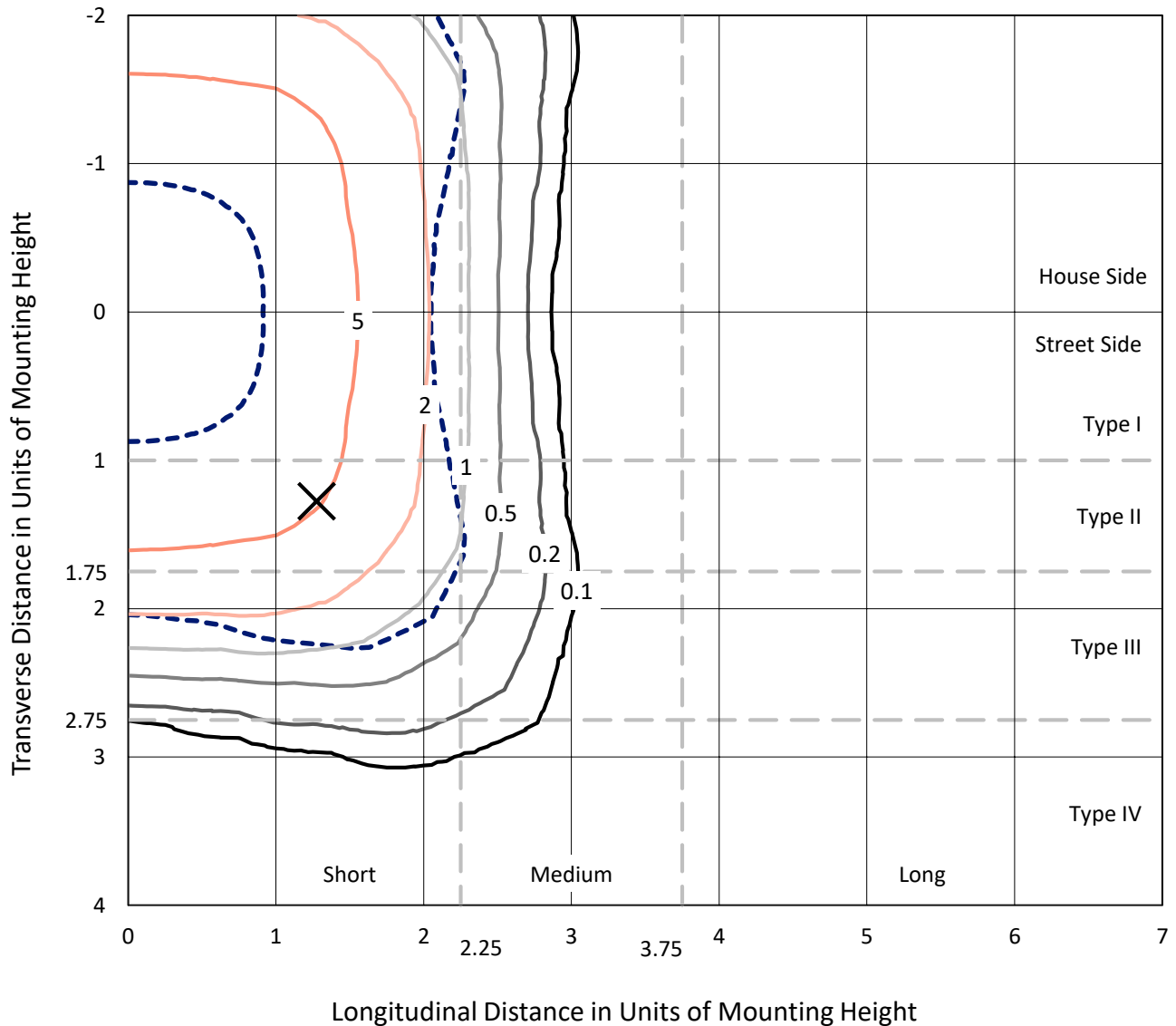
Input Watts (W): 631
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

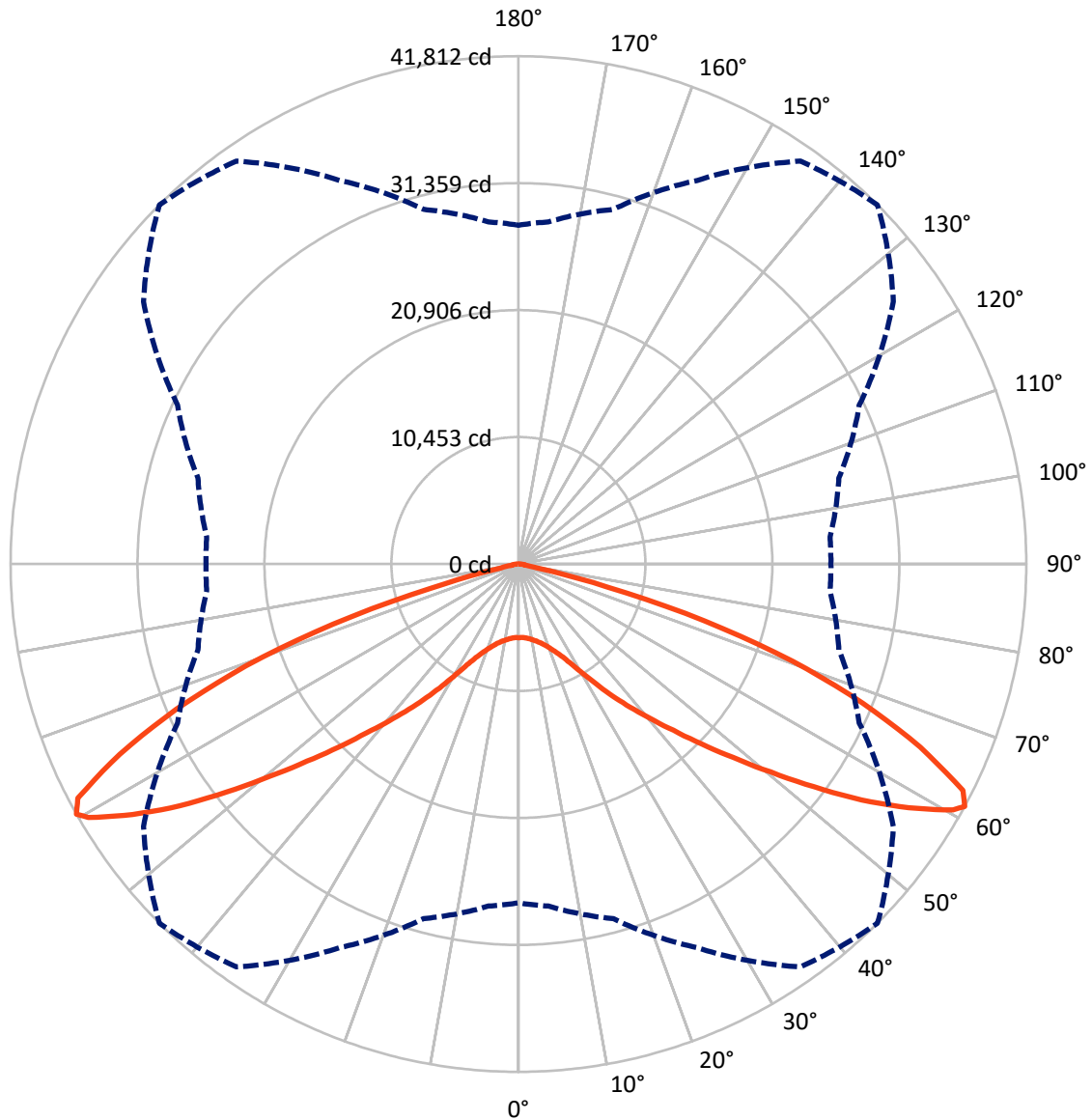


Based on 30 foot mounting height. Maximum calculated value = 9.8 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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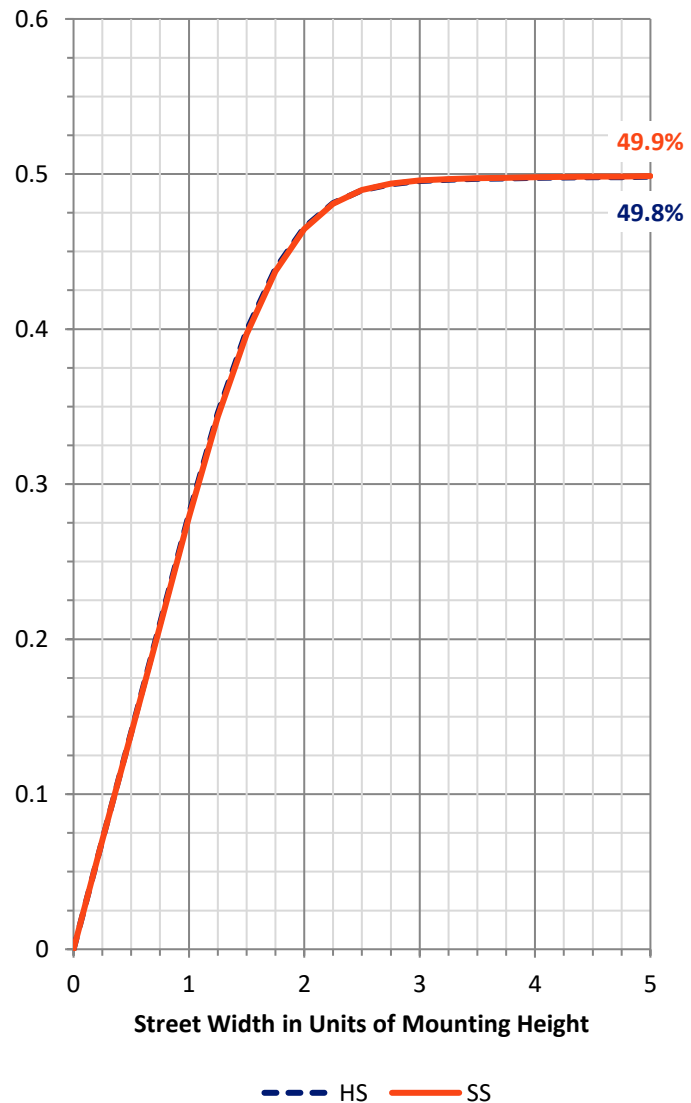
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	45085.0	0.0	45085.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	45085.0	0.0	45085.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	90170.0	0.0	90170.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	593.0	0.7
10°-20°	1943.0	2.2
20°-30°	4145.8	4.6
30°-40°	9029.9	10.0
40°-50°	17462.3	19.4
50°-60°	27730.6	30.8
60°-70°	25007.2	27.7
70°-80°	3914.2	4.3
80°-90°	344.0	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°	90170.0	100.0
0°-180°	90170.0	100.0

Coefficient of Utilization



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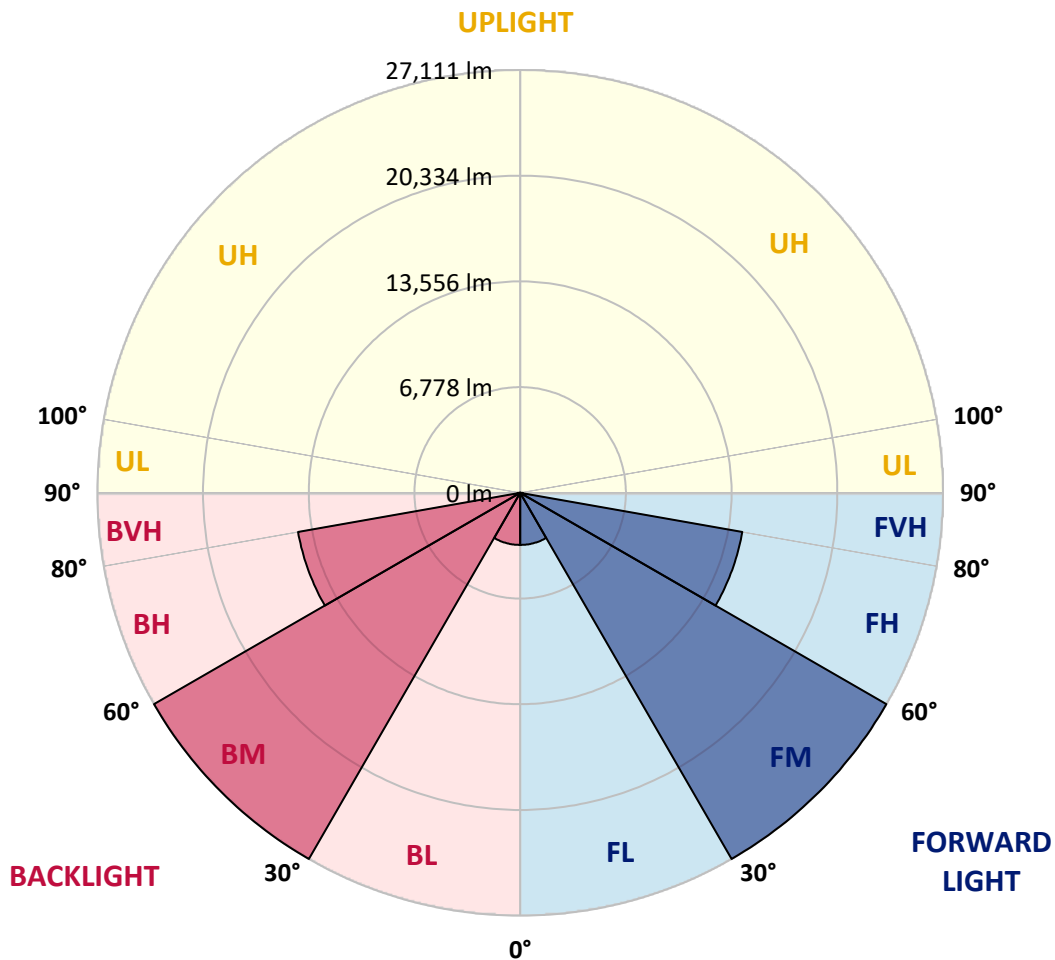
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3340.9	3.7			
FM (30°-60°)	27111.4	30.1			
FH (60°-80°)	14460.7	16.0			G5
FVH (80°-90°)	172.0	0.2			G2/225
BL (0°-30°)	3340.9	3.7	B4/5000		
BM (30°-60°)	27111.4	30.1	B5		
BH (60°-80°)	14460.7	16.0	B5		G5
BVH (80°-90°)	172.0	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°	6069.8	6069.8	6069.8	6069.8	6069.8	6069.8	6069.8	6069.8	6069.8	6069.8	6069.8
2.5°	6111.6	6098.5	6109.0	6116.8	6025.4	6048.9	6046.3	6109.0	6095.9	6124.6	6140.3
5°	6153.4	6132.5	6145.5	6166.4	6080.2	6111.6	6111.6	6169.0	6148.1	6176.9	6205.6
7.5°	6229.1	6208.2	6223.9	6250.0	6169.0	6203.0	6205.6	6273.5	6244.8	6268.3	6312.7
10°	6354.5	6341.4	6346.6	6370.1	6294.4	6336.2	6336.2	6409.3	6378.0	6404.1	6458.9
12.5°	6500.7	6495.5	6500.7	6532.1	6461.5	6503.3	6503.3	6573.9	6553.0	6584.3	6636.5
15°	6694.0	6688.8	6691.4	6733.2	6675.7	6714.9	6722.7	6795.9	6790.6	6824.6	6871.6
17.5°	6968.2	6968.2	6965.6	7002.2	6965.6	7004.8	7020.5	7098.8	7130.2	7172.0	7200.7
20°	7386.1	7362.6	7349.6	7367.8	7339.1	7380.9	7407.0	7535.0	7587.2	7652.5	7676.0
22.5°	7932.0	7900.6	7858.8	7840.6	7801.4	7856.2	7908.5	8091.3	8167.0	8274.1	8300.2
25°	8684.2	8631.9	8553.6	8480.5	8391.7	8470.0	8566.6	8817.4	8974.1	9115.1	9136.0
27.5°	9713.2	9634.9	9514.7	9373.7	9217.0	9313.6	9454.6	9820.3	10034.5	10259.1	10293.0
30°	11040.0	11026.9	10838.9	10588.2	10379.2	10434.1	10609.1	11060.9	11400.4	11632.9	11698.2
32.5°	12810.8	12797.7	12481.7	12058.6	11760.8	11797.4	11959.3	12460.8	12883.9	13262.6	13275.7
35°	14921.1	14879.3	14435.3	13850.3	13372.3	13330.5	13489.8	13988.7	14565.9	15007.3	15051.7
37.5°	17331.8	17263.9	16752.0	15866.6	15127.4	14955.1	15067.4	15694.2	16362.8	16861.7	16911.3
40°	19692.8	19640.6	19071.2	18240.7	17159.4	16723.2	16731.1	17532.9	18266.8	18729.1	18830.9
42.5°	21967.7	22009.5	21463.6	20617.4	19486.5	18708.2	18718.6	19496.9	20257.0	20737.5	20870.7
45°	24302.6	24266.1	23754.1	23028.1	21986.0	21124.1	20831.6	21609.9	22364.7	22759.1	22902.7
47.5°	26214.4	26149.1	25804.4	25420.5	24647.4	23798.5	23284.0	23824.7	24344.4	24610.8	24757.1
50°	27880.8	27828.5	27794.6	27632.6	27460.3	26911.8	26065.6	26031.6	26143.9	26201.4	26334.6
52.5°	29291.1	29288.5	29471.3	29868.3	30294.0	30484.7	29019.5	28071.4	27684.9	27400.2	27449.8
55°	30354.1	30341.1	30860.8	31923.8	33428.2	34290.1	32127.5	29837.0	28818.4	28267.3	28262.1
57.5°	30900.0	30923.5	31978.6	33903.5	36692.9	37868.2	35115.4	31458.9	29714.2	28875.8	28865.4
60°	29458.3	29557.5	31626.1	35131.1	39578.9	41114.7	37562.6	31795.8	28742.6	27334.9	27298.3
61°	27896.4	28269.9	30226.1	34851.6	40493.1	41812.0	37680.2	30960.1	27311.4	25757.4	25723.4
62.5°	24461.9	24811.9	27805.0	34154.3	40430.4	41080.7	37011.5	29458.3	25065.3	23333.7	23263.1
65°	17749.7	18162.3	21385.3	30260.1	36753.0	36366.4	33665.9	26010.7	21019.6	19071.2	18982.4
67.5°	8924.5	9452.0	13069.4	21959.9	29860.5	30594.4	28742.6	20593.9	14897.6	11248.9	11238.5
70°	2306.2	2530.8	4711.7	11549.3	21534.1	23963.1	21915.5	11930.6	5792.9	3494.6	3277.8
72.5°	645.1	676.5	1279.8	4207.6	12246.6	16054.6	11881.0	4171.0	1305.9	744.4	681.7
75°	454.4	462.3	509.3	1065.6	4625.5	7493.2	3828.9	901.1	522.4	493.6	493.6
77.5°	404.8	410.0	441.4	574.6	969.0	1684.6	733.9	582.4	459.7	444.0	438.8
80°	428.3	433.6	451.8	556.3	569.4	605.9	509.3	504.1	457.1	467.5	462.3
82.5°	459.7	470.1	493.6	569.4	488.4	491.0	417.9	415.3	404.8	459.7	462.3
85°	407.4	425.7	444.0	498.9	402.2	329.1	342.1	271.6	289.9	344.8	331.7
87.5°	227.2	224.6	216.8	227.2	203.7	164.5	138.4	125.4	114.9	130.6	128.0
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)