

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: P232766

Luminaire Tested: **CST-10-9-D-U-T5N-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232766
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-7030
Description: CELESTEON HIGH MAST LUMINAIRE
(10) 70 CRI, 3000K LEDS AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 99747 lumens
Efficiency: N/A
Efficacy: 131.2 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G5

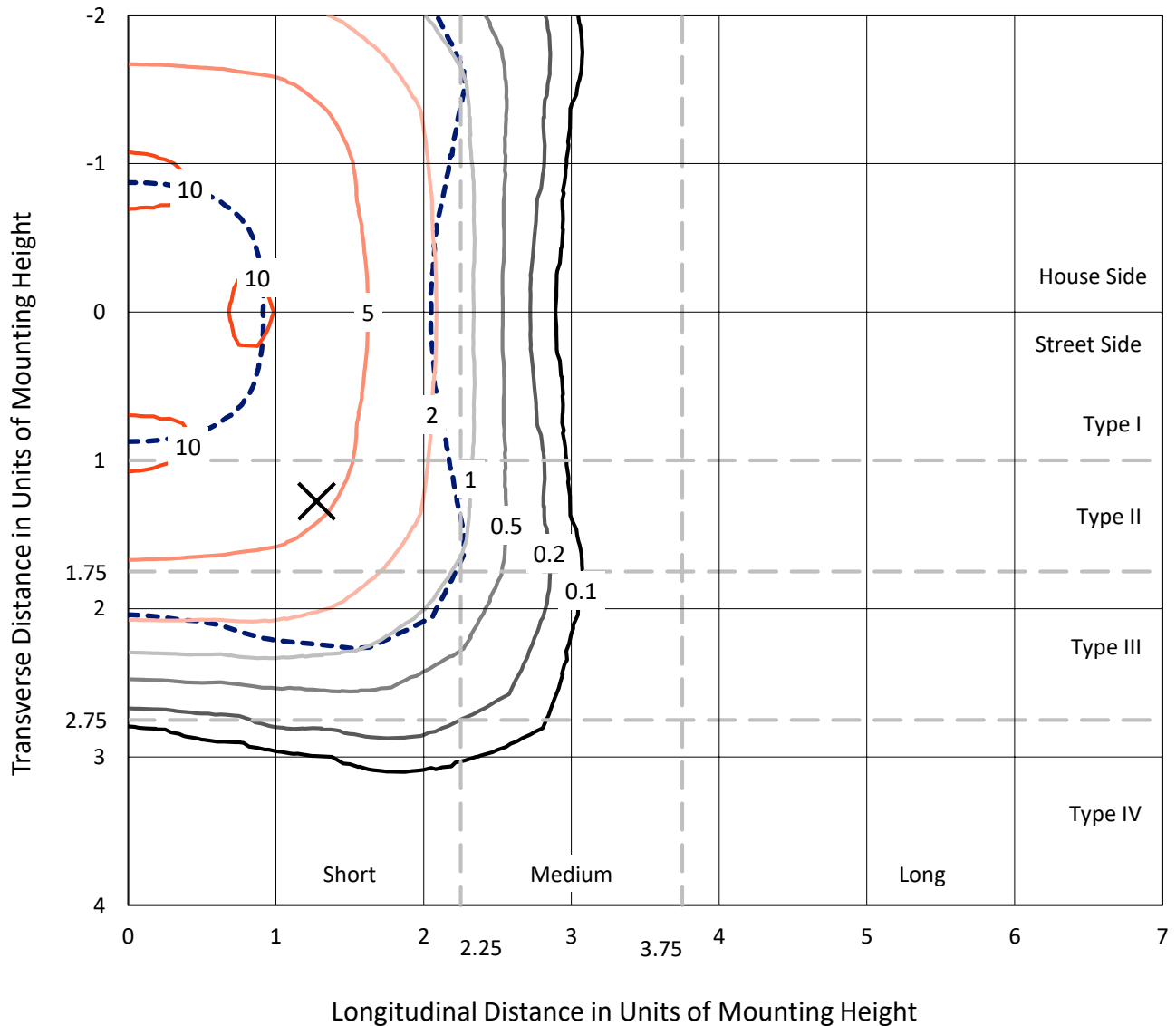
Input Watts (W): 760
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

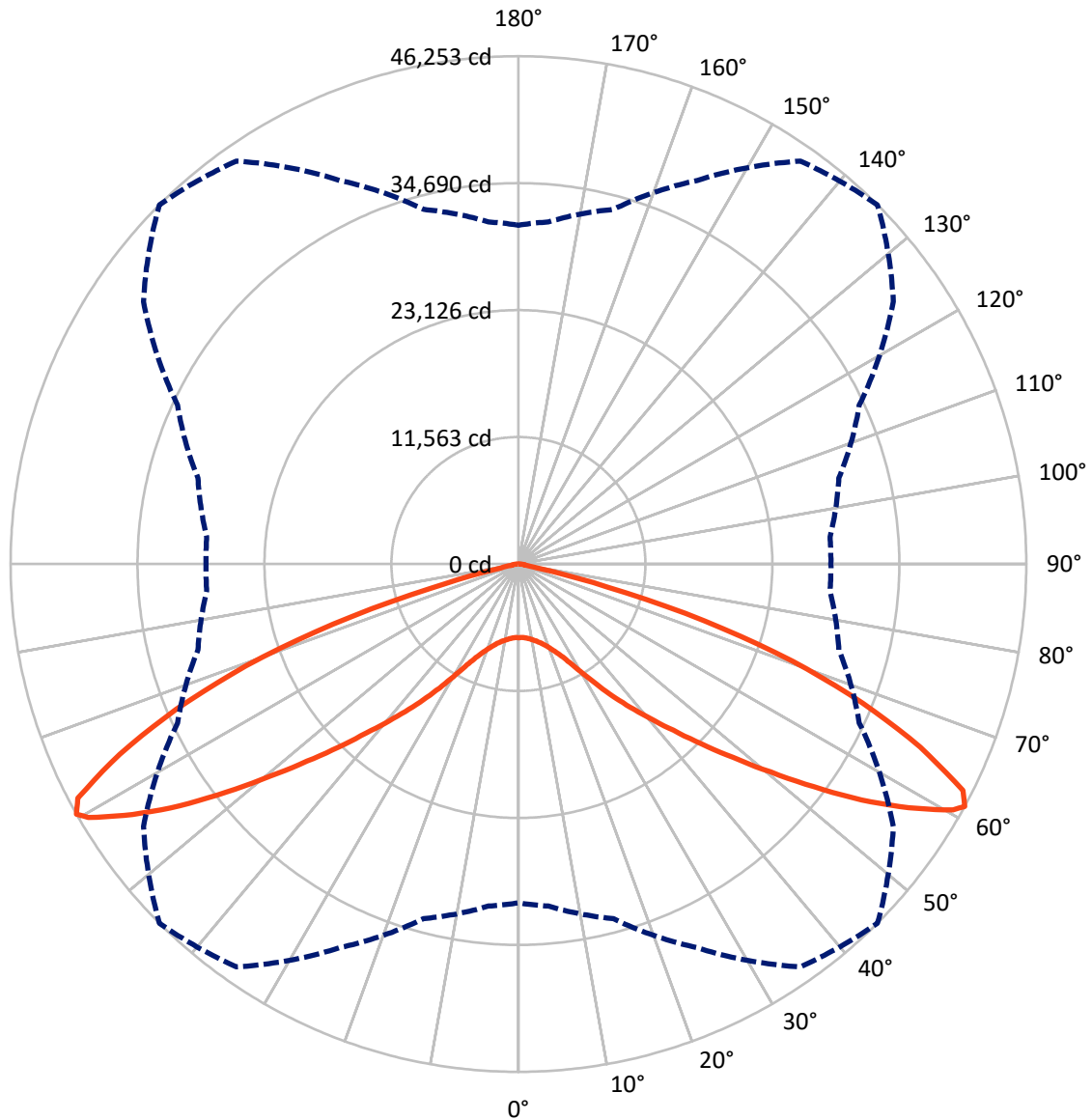


Based on 30 foot mounting height. Maximum calculated value = 10.9 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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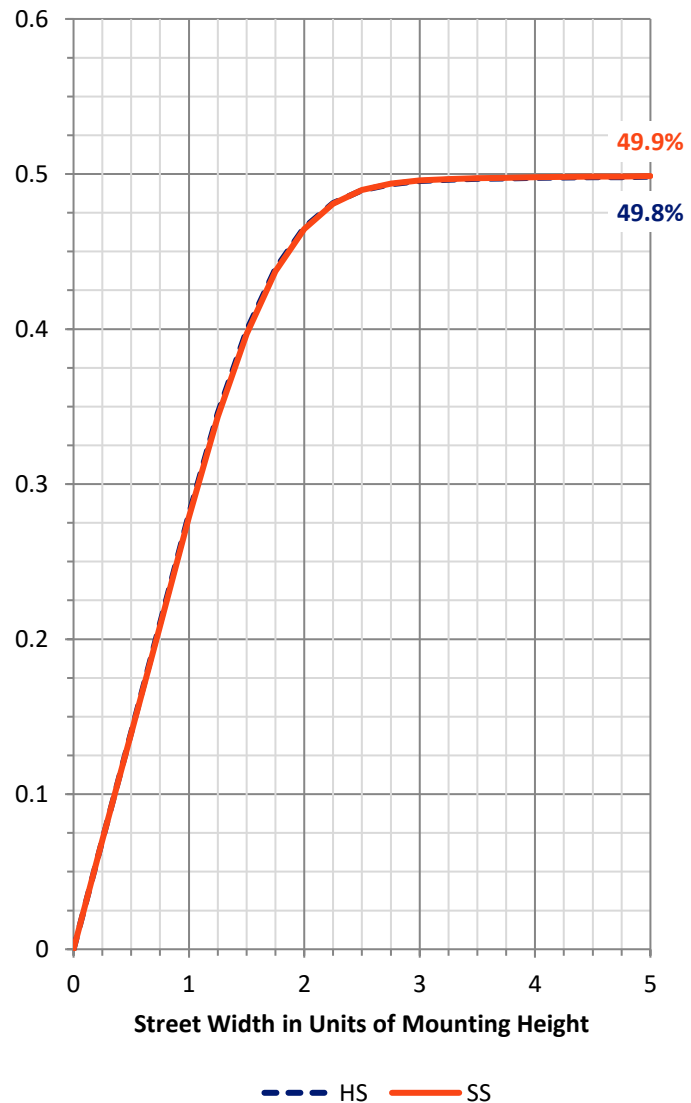
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	49873.5	0.0	49873.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	49873.5	0.0	49873.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	99747.0	0.0	99747.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	656.0	0.7
10°-20°	2149.4	2.2
20°-30°	4586.1	4.6
30°-40°	9989.0	10.0
40°-50°	19316.9	19.4
50°-60°	30675.9	30.8
60°-70°	27663.2	27.7
70°-80°	4329.9	4.3
80°-90°	380.5	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°	99747.0	100.0
0°-180°	99747.0	100.0

Coefficient of Utilization



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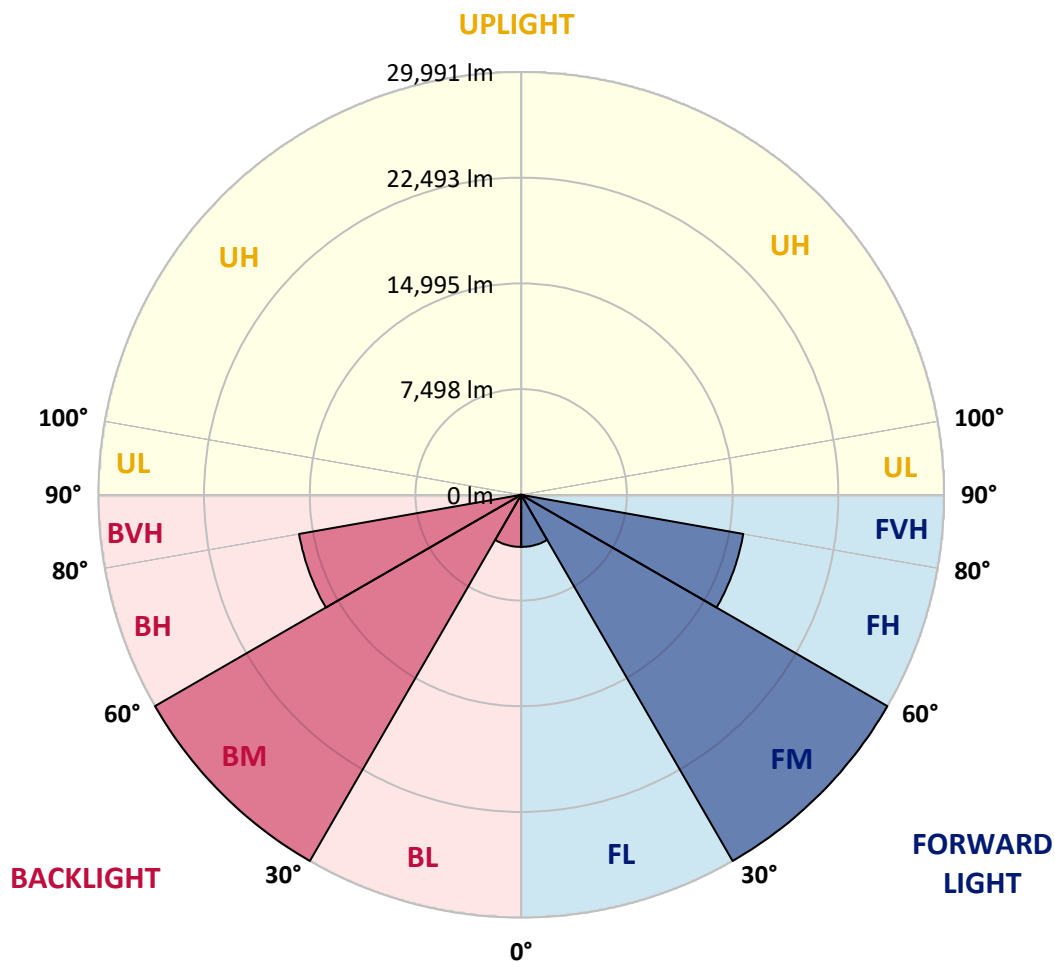
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3695.8	3.7			
FM	(30°-60°)	29990.9	30.1			
FH	(60°-80°)	15996.6	16.0			G5
FVH	(80°-90°)	190.2	0.2			G2/225
BL	(0°-30°)	3695.8	3.7	B4/5000		
BM	(30°-60°)	29990.9	30.1	B5		
BH	(60°-80°)	15996.6	16.0	B5		G5
BVH	(80°-90°)	190.2	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°	6714.5	6714.5	6714.5	6714.5	6714.5	6714.5	6714.5	6714.5	6714.5	6714.5	6714.5
2.5°	6760.7	6746.2	6757.8	6766.5	6665.3	6691.3	6688.5	6757.8	6743.3	6775.1	6792.5
5°	6806.9	6783.8	6798.2	6821.4	6726.0	6760.7	6760.7	6824.2	6801.1	6832.9	6864.7
7.5°	6890.7	6867.6	6884.9	6913.8	6824.2	6861.8	6864.7	6939.8	6908.0	6934.0	6983.1
10°	7029.4	7014.9	7020.7	7046.7	6962.9	7009.1	7009.1	7090.0	7055.4	7084.3	7144.9
12.5°	7191.2	7185.4	7191.2	7225.8	7147.8	7194.1	7194.1	7272.1	7249.0	7283.6	7341.4
15°	7405.0	7399.2	7402.1	7448.3	7384.7	7428.1	7436.7	7517.6	7511.9	7549.4	7601.4
17.5°	7708.3	7708.3	7705.4	7745.9	7705.4	7748.8	7766.1	7852.8	7887.5	7933.7	7965.5
20°	8170.6	8144.6	8130.2	8150.4	8118.6	8164.8	8193.7	8335.3	8393.1	8465.3	8491.3
22.5°	8774.4	8739.8	8693.5	8673.3	8630.0	8690.7	8748.4	8950.7	9034.5	9152.9	9181.8
25°	9606.5	9548.7	9462.1	9381.2	9282.9	9369.6	9476.5	9753.9	9927.2	10083.2	10106.3
27.5°	10744.9	10658.2	10525.3	10369.3	10195.9	10302.8	10458.8	10863.3	11100.2	11348.7	11386.3
30°	12212.6	12198.1	11990.1	11712.7	11481.6	11542.3	11735.8	12235.7	12611.3	12868.4	12940.6
32.5°	14171.4	14157.0	13807.4	13339.3	13010.0	13050.4	13229.6	13784.3	14252.3	14671.3	14685.7
35°	16505.9	16459.7	15968.5	15321.3	14792.6	14746.4	14922.6	15474.4	16113.0	16601.2	16650.3
37.5°	19172.6	19097.5	18531.2	17551.8	16734.1	16543.4	16667.7	17361.1	18100.7	18652.5	18707.4
40°	21784.4	21726.6	21096.8	20178.0	18981.9	18499.4	18508.1	19395.1	20206.9	20718.3	20831.0
42.5°	24300.9	24347.1	23743.3	22807.2	21556.2	20695.2	20706.7	21567.7	22408.5	22940.1	23087.4
45°	26883.8	26843.4	26277.1	25473.9	24321.1	23367.7	23044.1	23905.1	24740.0	25176.3	25335.2
47.5°	28998.7	28926.5	28545.1	28120.4	27265.2	26326.2	25757.0	26355.1	26930.0	27224.7	27386.5
50°	30842.0	30784.2	30746.6	30567.5	30376.8	29770.1	28834.0	28796.5	28920.7	28984.2	29131.6
52.5°	32402.1	32399.3	32601.5	33040.7	33511.6	33722.5	32101.7	31052.9	30625.3	30310.4	30365.3
55°	33578.0	33563.6	34138.5	35314.4	36978.6	37932.0	35539.8	33006.0	31879.2	31269.6	31263.8
57.5°	34181.9	34207.9	35375.1	37504.4	40590.1	41890.2	38845.0	34800.2	32870.2	31942.8	31931.2
60°	32587.1	32696.8	34985.1	38862.4	43782.6	45481.5	41552.2	35172.9	31795.4	30238.2	30197.7
61°	30859.3	31272.5	33436.5	38553.2	44793.8	46252.9	41682.2	34248.3	30212.1	28493.1	28455.5
62.5°	27060.1	27447.2	30758.2	37781.8	44724.5	45443.9	40942.6	32587.1	27727.5	25811.9	25733.9
65°	19634.9	20091.4	23656.6	33474.0	40656.5	40228.9	37241.5	28773.3	23252.1	21096.8	20998.6
67.5°	9872.3	10455.9	14457.5	24292.2	33032.0	33843.8	31795.4	22781.2	16479.9	12443.7	12432.1
70°	2551.1	2799.6	5212.1	12776.0	23821.3	26508.2	24243.1	13197.8	6408.2	3865.7	3625.9
72.5°	713.6	748.3	1415.7	4654.5	13547.4	17759.8	13142.9	4614.0	1444.6	823.4	754.1
75°	502.7	511.4	563.4	1178.8	5116.7	8289.1	4235.5	996.8	577.8	546.1	546.1
77.5°	447.8	453.6	488.3	635.6	1071.9	1863.5	811.9	644.3	508.5	491.2	485.4
80°	473.8	479.6	499.8	615.4	629.8	670.3	563.4	557.6	505.6	517.2	511.4
82.5°	508.5	520.1	546.1	629.8	540.3	543.2	462.3	459.4	447.8	508.5	511.4
85°	450.7	470.9	491.2	551.8	444.9	364.0	378.5	300.5	320.7	381.4	366.9
87.5°	251.4	248.5	239.8	251.4	225.4	182.0	153.1	138.7	127.1	144.5	141.6
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)