

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: P232762

Luminaire Tested: **CST-8-4-D-U-T5N-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232762
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-8-4-D-U-T5N-7030
Description: CELESTEON HIGH MAST LUMINAIRE
(8) 70 CRI, 3000K LEDS AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46524 lumens
Efficiency: N/A
Efficacy: 143.2 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

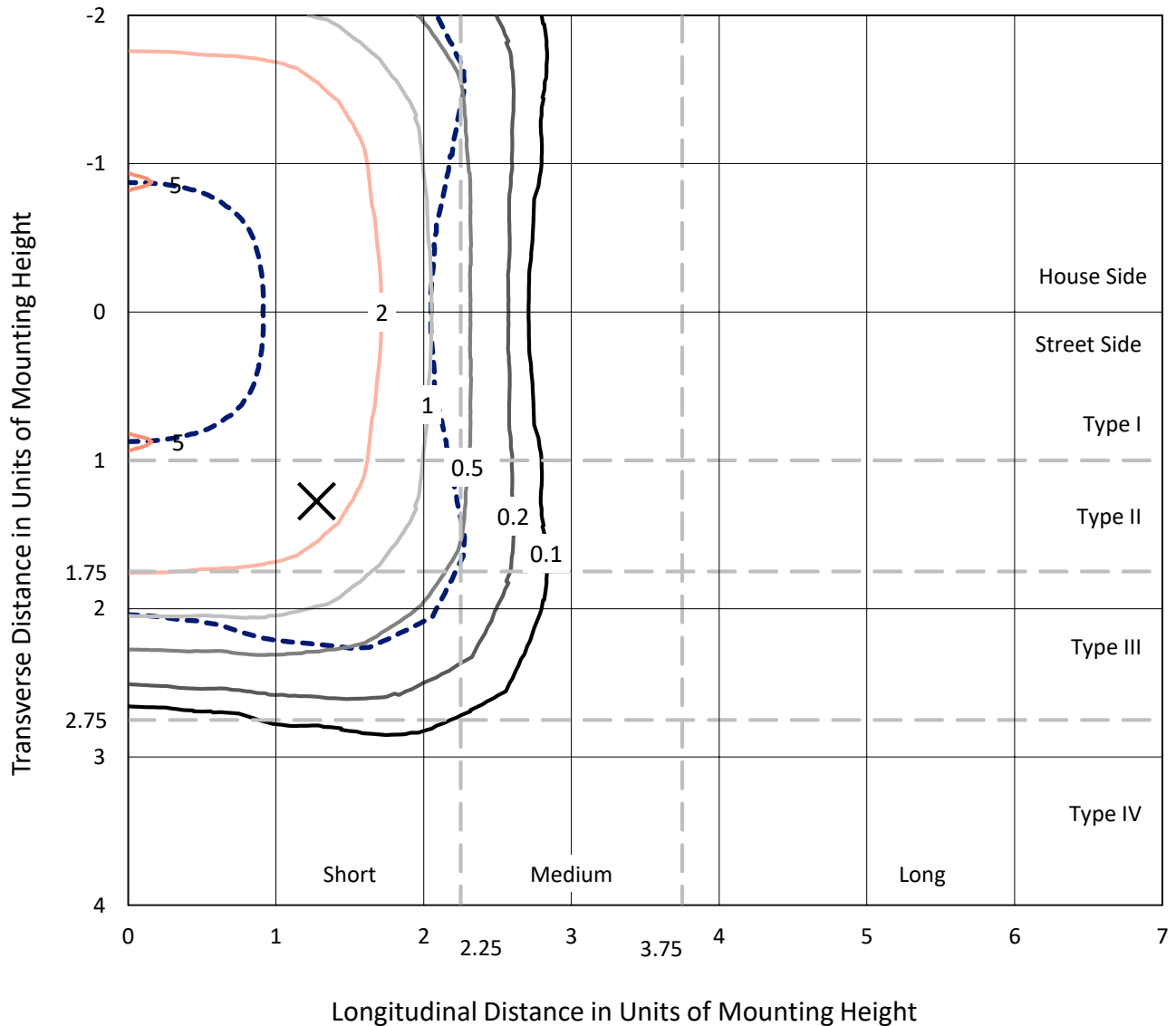
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

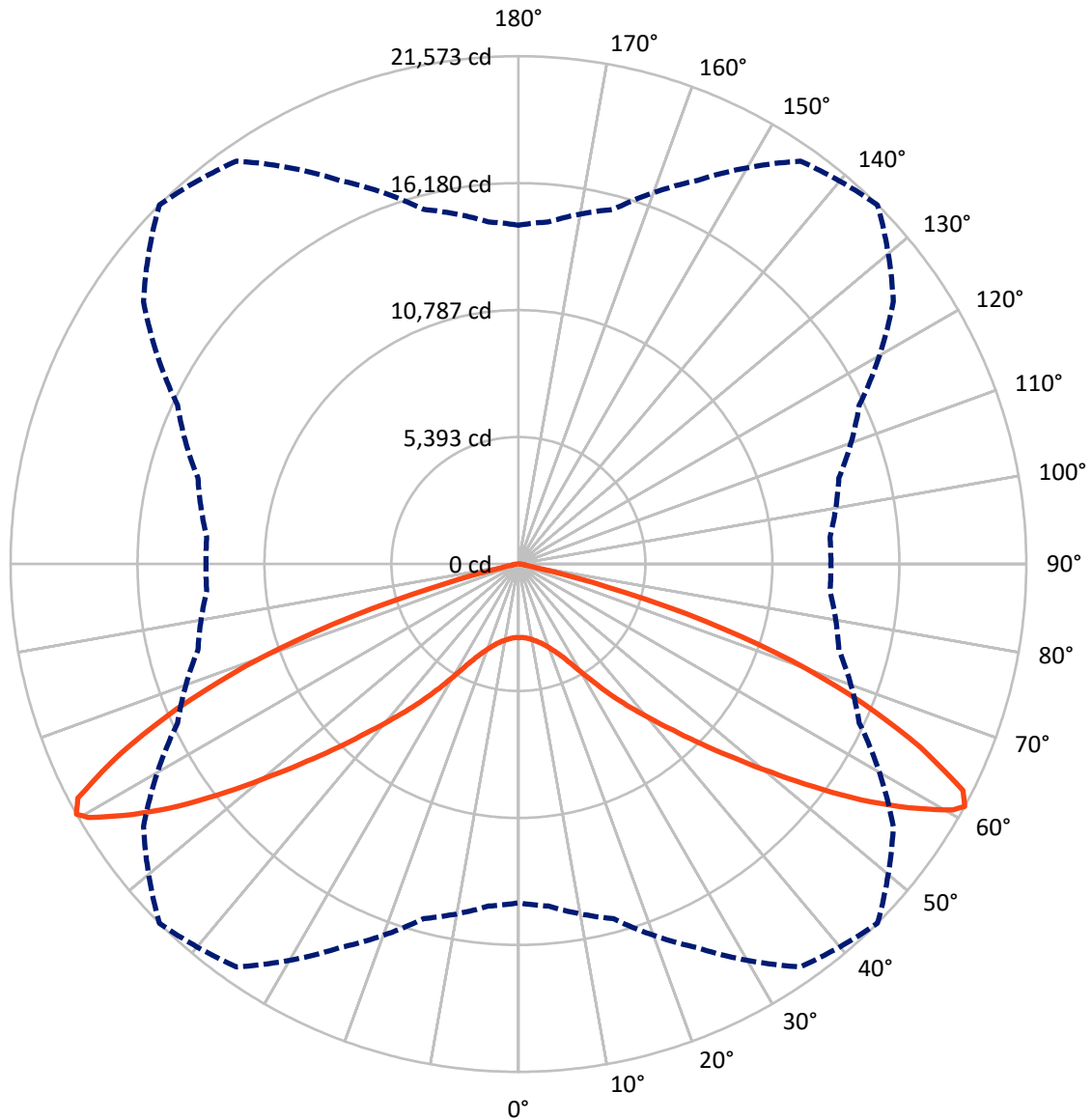


Based on 30 foot mounting height. Maximum calculated value = 5.1 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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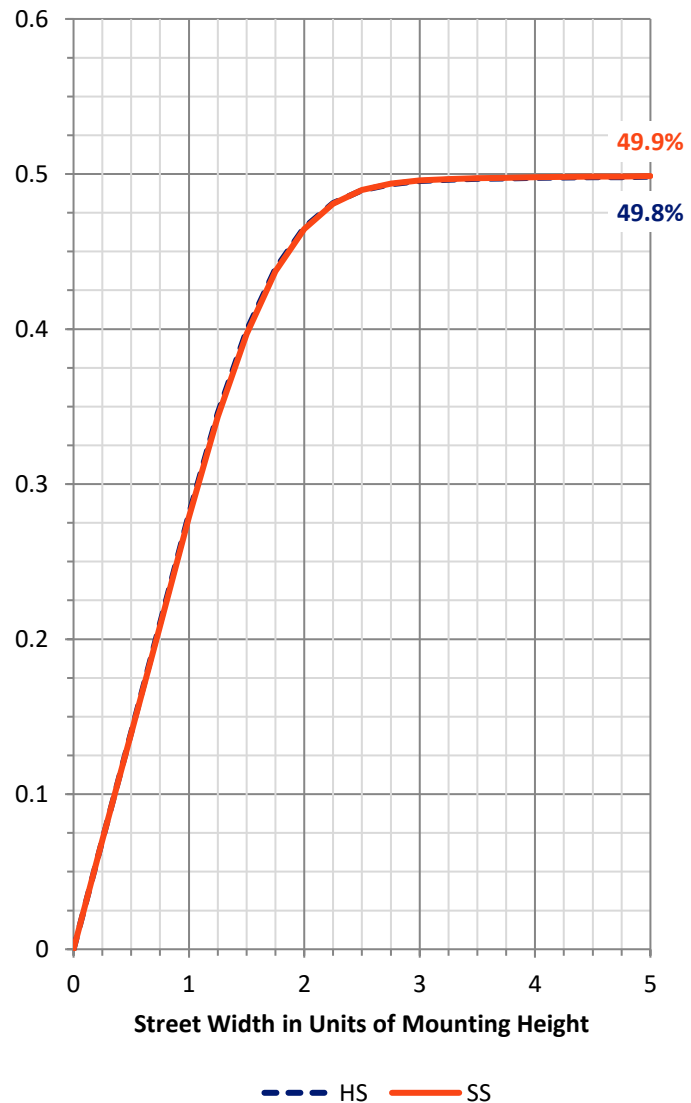
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23262.0	0.0	23262.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	23262.0	0.0	23262.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	46524.0	0.0	46524.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.0	0.7
10°-20°	1002.5	2.2
20°-30°	2139.1	4.6
30°-40°	4659.1	10.0
40°-50°	9009.8	19.4
50°-60°	14307.9	30.8
60°-70°	12902.7	27.7
70°-80°	2019.5	4.3
80°-90°	177.5	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°	46524.0	100.0
0°-180°	46524.0	100.0



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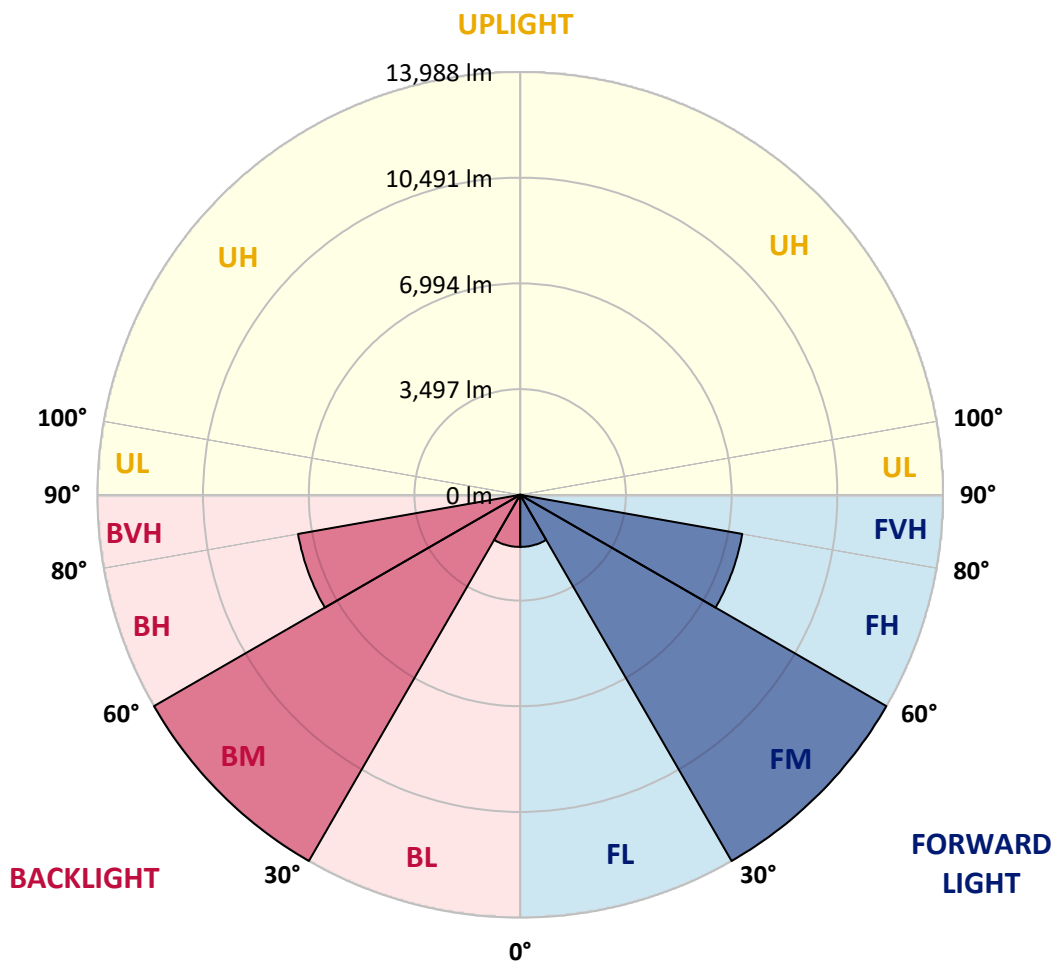
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1723.8	3.7			
FM (30°-60°)	13988.4	30.1			
FH (60°-80°)	7461.1	16.0			G3/7500
FVH (80°-90°)	88.7	0.2			G1/100
BL (0°-30°)	1723.8	3.7	B3/2500		
BM (30°-60°)	13988.4	30.1	B5		
BH (60°-80°)	7461.1	16.0	B5		G3/7500
BVH (80°-90°)	88.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3131.8	3131.8	3131.8	3131.8	3131.8	3131.8	3131.8	3131.8	3131.8	3131.8	3131.8
2.5°	3153.3	3146.6	3152.0	3156.0	3108.8	3121.0	3119.6	3152.0	3145.2	3160.1	3168.1
5°	3174.9	3164.1	3170.8	3181.6	3137.1	3153.3	3153.3	3183.0	3172.2	3187.0	3201.8
7.5°	3214.0	3203.2	3211.3	3224.7	3183.0	3200.5	3201.8	3236.9	3222.0	3234.2	3257.1
10°	3278.6	3271.9	3274.6	3286.7	3247.6	3269.2	3269.2	3306.9	3290.8	3304.2	3332.5
12.5°	3354.1	3351.4	3354.1	3370.3	3333.9	3355.5	3355.5	3391.8	3381.1	3397.2	3424.2
15°	3453.8	3451.1	3452.5	3474.0	3444.4	3464.6	3468.6	3506.4	3503.7	3521.2	3545.5
17.5°	3595.3	3595.3	3594.0	3612.8	3594.0	3614.2	3622.3	3662.7	3678.9	3700.4	3715.3
20°	3810.9	3798.8	3792.1	3801.5	3786.7	3808.2	3821.7	3887.7	3914.7	3948.4	3960.5
22.5°	4092.6	4076.4	4054.8	4045.4	4025.2	4053.5	4080.4	4174.8	4213.9	4269.1	4282.6
25°	4480.7	4453.7	4413.3	4375.6	4329.7	4370.2	4420.0	4549.4	4630.3	4703.0	4713.8
27.5°	5011.6	4971.2	4909.2	4836.4	4755.6	4805.4	4878.2	5066.9	5177.4	5293.3	5310.8
30°	5696.2	5689.4	5592.4	5463.1	5355.2	5383.5	5473.8	5707.0	5882.1	6002.1	6035.8
32.5°	6609.8	6603.1	6440.0	6221.7	6068.1	6087.0	6170.5	6429.3	6647.6	6843.0	6849.7
35°	7698.7	7677.1	7448.0	7146.2	6899.6	6878.0	6960.2	7217.6	7515.4	7743.1	7766.1
37.5°	8942.5	8907.4	8643.3	8186.5	7805.1	7716.2	7774.1	8097.6	8442.5	8699.9	8725.5
40°	10160.7	10133.7	9840.0	9411.4	8853.5	8628.5	8632.5	9046.2	9424.9	9663.4	9716.0
42.5°	11334.4	11356.0	11074.3	10637.7	10054.2	9652.7	9658.0	10059.6	10451.8	10699.7	10768.4
45°	12539.1	12520.3	12256.2	11881.5	11343.9	10899.2	10748.2	11149.8	11539.3	11742.7	11816.9
47.5°	13525.6	13491.9	13314.0	13115.9	12717.0	12279.1	12013.6	12292.5	12560.7	12698.2	12773.6
50°	14385.3	14358.4	14340.9	14257.3	14168.4	13885.4	13448.8	13431.2	13489.2	13518.8	13587.6
52.5°	15113.0	15111.7	15206.0	15410.8	15630.5	15728.9	14972.9	14483.7	14284.3	14137.4	14163.0
55°	15661.5	15654.7	15922.9	16471.4	17247.6	17692.3	16576.5	15394.7	14869.1	14584.8	14582.1
57.5°	15943.1	15955.2	16499.7	17492.8	18932.0	19538.4	18118.1	16231.5	15331.3	14898.7	14893.4
60°	15199.3	15250.5	16317.7	18126.2	20421.1	21213.5	19380.8	16405.3	14830.0	14103.7	14084.8
61°	14393.4	14586.1	15595.4	17982.0	20892.7	21573.3	19441.4	15974.1	14091.6	13289.7	13272.2
62.5°	12621.4	12801.9	14346.2	17622.2	20860.4	21195.9	19096.4	15199.3	12932.6	12039.2	12002.8
65°	9158.1	9371.0	11033.9	15613.0	18963.0	18763.6	17370.2	13420.5	10845.3	9840.0	9794.1
67.5°	4604.7	4876.9	6743.2	11330.4	15406.8	15785.4	14830.0	10625.6	7686.5	5804.0	5798.6
70°	1189.9	1305.8	2431.0	5959.0	11110.7	12364.0	11307.5	6155.7	2988.9	1803.1	1691.2
72.5°	332.9	349.0	660.3	2170.9	6318.8	8283.5	6130.1	2152.1	673.8	384.1	351.7
75°	234.5	238.5	262.8	549.8	2386.5	3866.2	1975.5	464.9	269.5	254.7	254.7
77.5°	208.9	211.6	227.7	296.5	499.9	869.2	378.7	300.5	237.2	229.1	226.4
80°	221.0	223.7	233.1	287.0	293.8	312.6	262.8	260.1	235.8	241.2	238.5
82.5°	237.2	242.6	254.7	293.8	252.0	253.3	215.6	214.3	208.9	237.2	238.5
85°	210.2	219.7	229.1	257.4	207.5	169.8	176.5	140.1	149.6	177.9	171.1
87.5°	117.2	115.9	111.8	117.2	105.1	84.9	71.4	64.7	59.3	67.4	66.0
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)