

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: P510832

Luminaire Tested: **CST-CA8-480-727-U-T5**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510832
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-CA8-480-727-U-T5
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 62082 lumens
Efficiency: N/A
Efficacy: 129.1 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

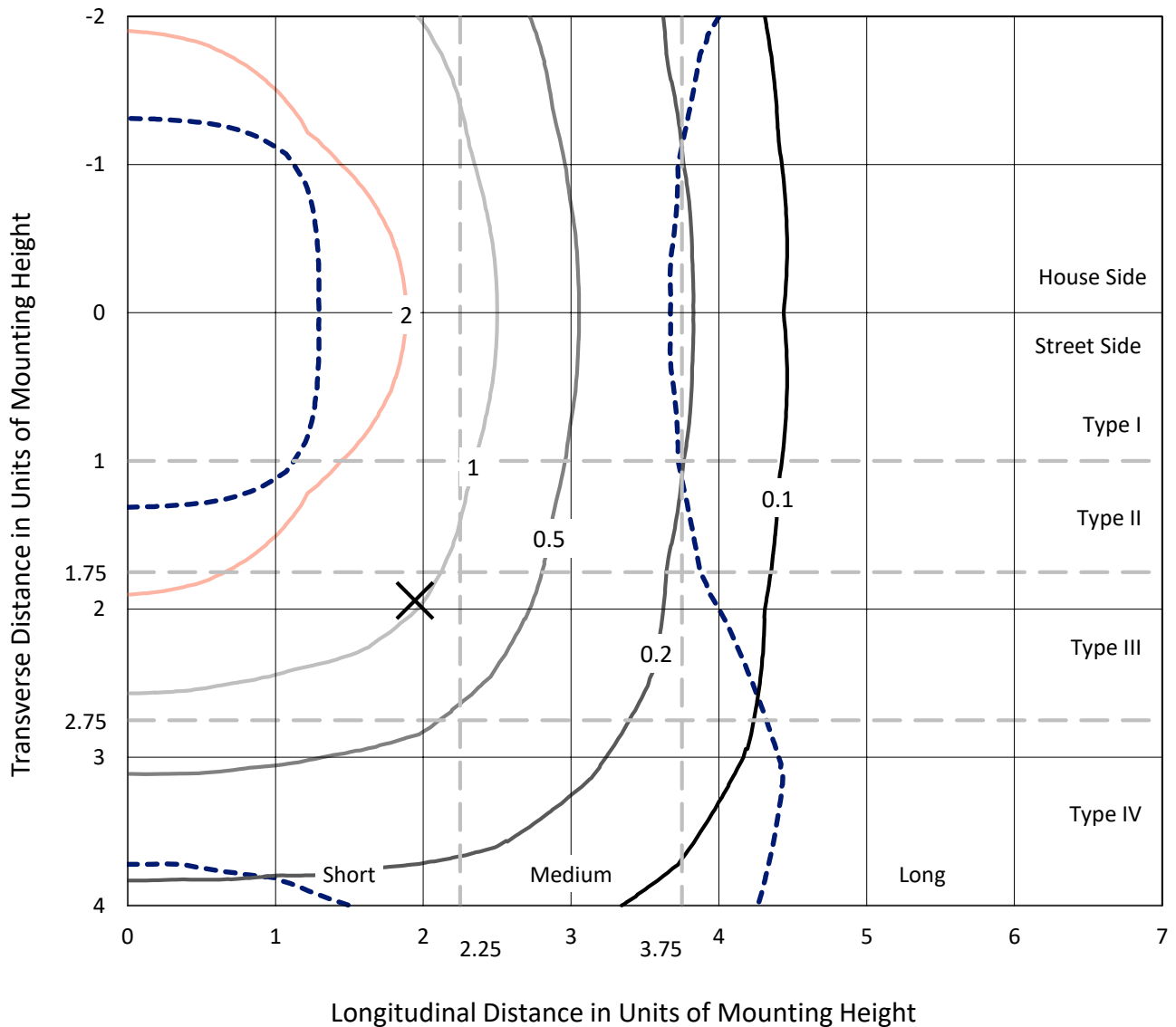
Input Watts (W): 480.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

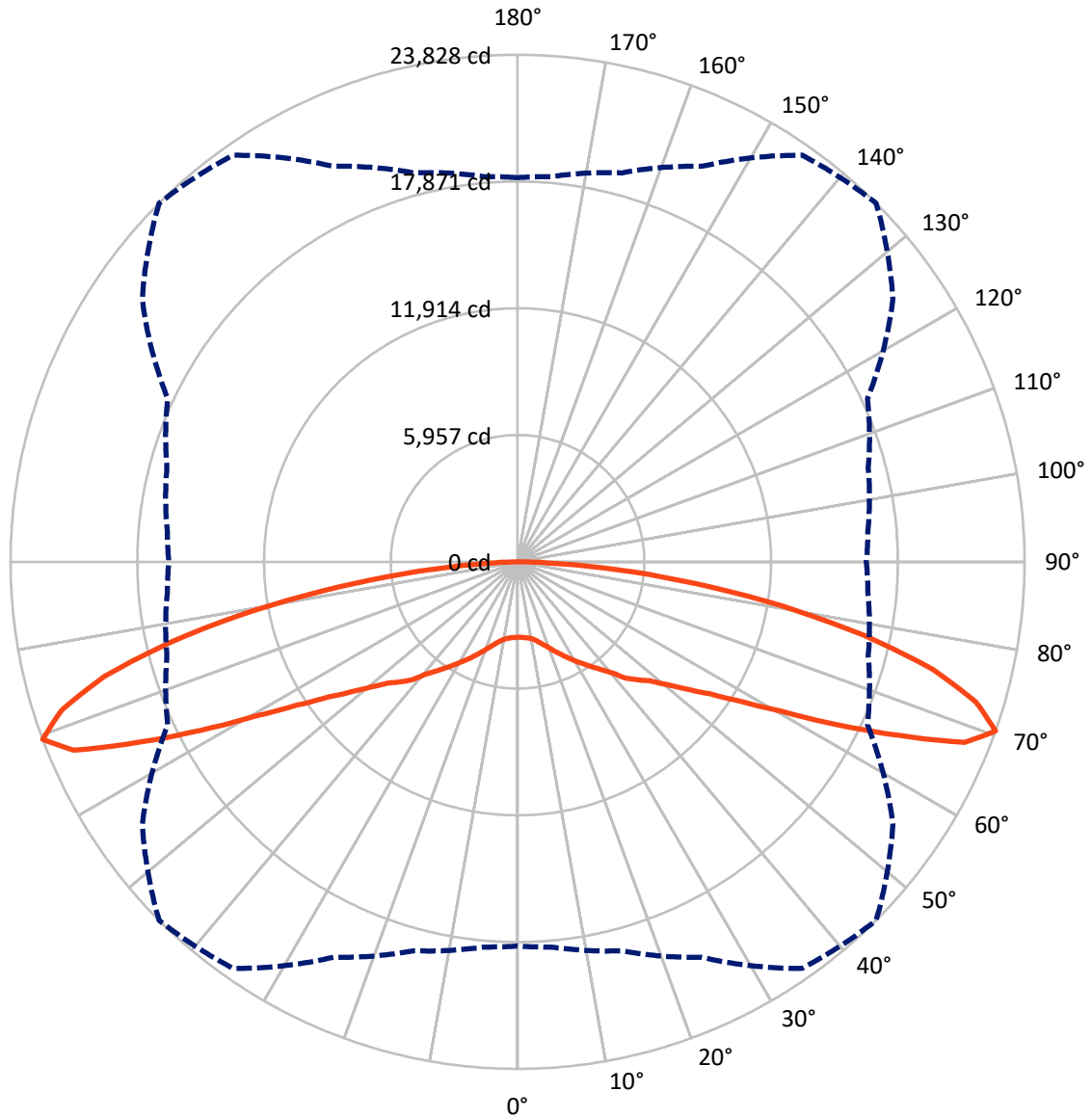
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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

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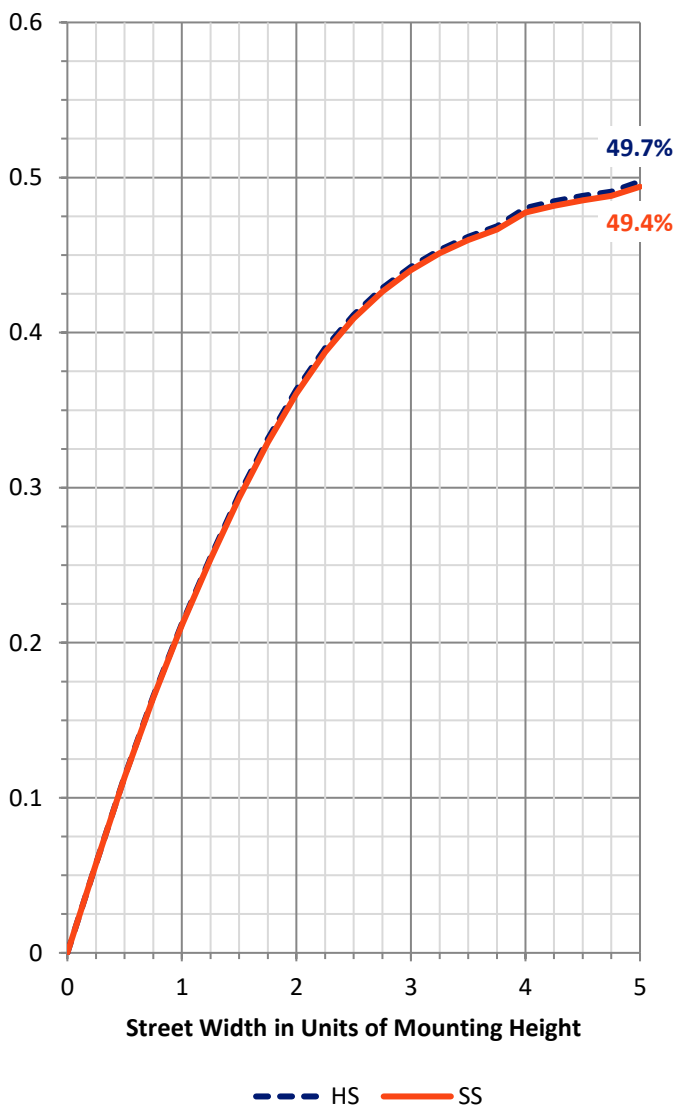
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	31041.0	0.0	31041.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	31041.0	0.0	31041.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	62082.0	0.0	62082.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.9	0.6
10°-20°	1123.2	1.8
20°-30°	2223.5	3.6
30°-40°	3846.5	6.2
40°-50°	6400.0	10.3
50°-60°	11162.7	18.0
60°-70°	18479.3	29.8
70°-80°	15487.1	24.9
80°-90°	3014.8	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°	62082.0	100.0
0°-180°	62082.0	100.0

Coefficient of Utilization

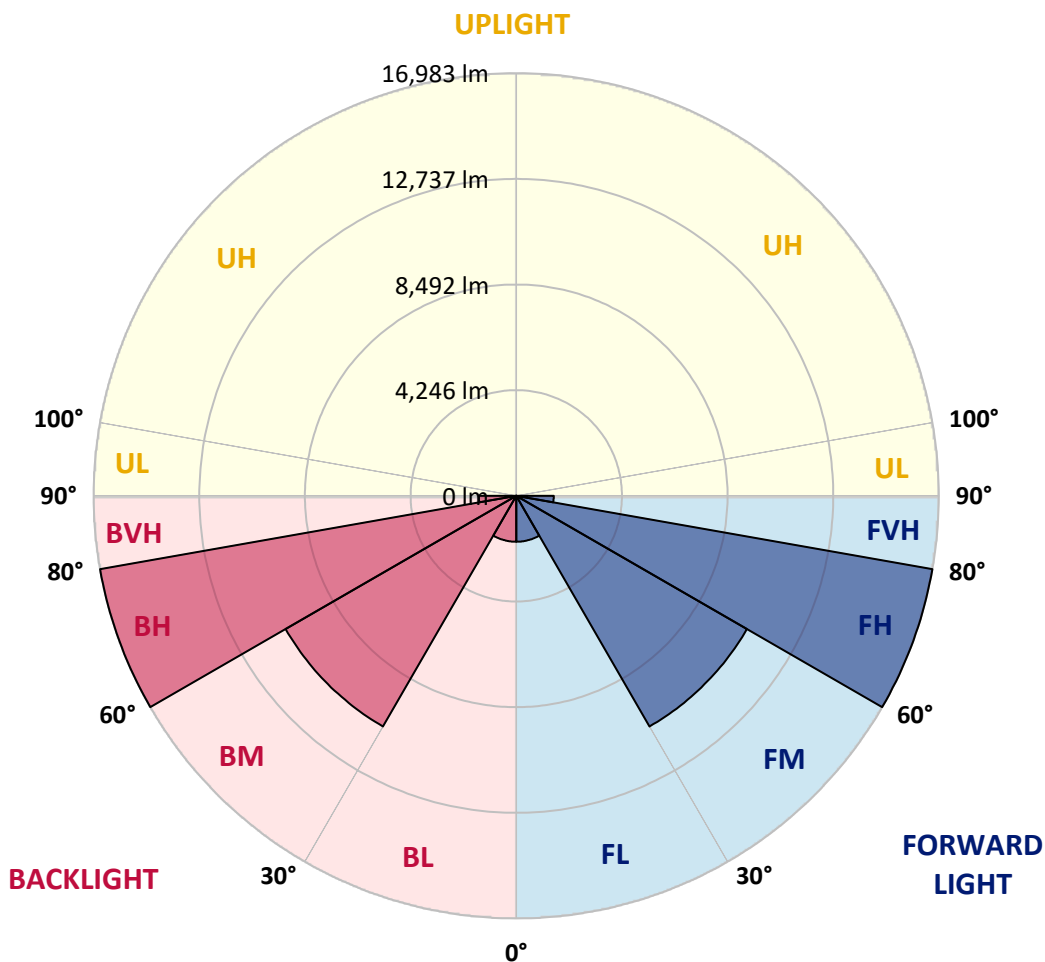


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1845.8	3.0			
FM (30°-60°)	10704.6	17.2			
FH (60°-80°)	16983.2	27.4			G5
FVH (80°-90°)	1507.4	2.4			G5
BL (0°-30°)	1845.8	3.0	B3/2500		
BM (30°-60°)	10704.6	17.2	B5		
BH (60°-80°)	16983.2	27.4	B5		G5
BVH (80°-90°)	1507.4	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3548.2	3548.2	3548.2	3548.2	3548.2	3548.2	3548.2	3548.2	3548.2	3548.2	3548.2
2.5°	3570.3	3559.2	3555.6	3551.9	3554.3	3553.1	3559.2	3561.7	3564.2	3575.2	3569.1
5°	3592.4	3583.8	3582.6	3577.7	3576.5	3576.5	3585.1	3586.3	3587.5	3594.9	3587.5
7.5°	3633.0	3624.4	3622.0	3619.5	3618.3	3613.3	3619.5	3617.0	3619.5	3623.2	3614.6
10°	3696.9	3687.1	3684.7	3678.5	3682.2	3674.8	3679.7	3673.6	3662.5	3665.0	3652.7
12.5°	3784.2	3775.6	3779.3	3778.1	3792.8	3789.2	3779.3	3767.0	3748.6	3736.3	3722.8
15°	3913.3	3899.8	3909.6	3919.5	3934.2	3940.4	3933.0	3899.8	3872.8	3853.1	3842.0
17.5°	4070.7	4048.6	4068.2	4087.9	4119.9	4126.0	4099.0	4058.4	4028.9	4020.3	4001.8
20°	4253.9	4250.2	4251.4	4283.4	4332.6	4341.2	4305.5	4257.6	4228.1	4229.3	4208.4
22.5°	4475.2	4455.5	4461.7	4493.6	4563.7	4587.1	4528.1	4475.2	4456.7	4461.7	4459.2
25°	4728.5	4710.0	4701.4	4716.2	4807.1	4847.7	4791.2	4729.7	4721.1	4732.1	4714.9
27.5°	5006.3	4989.1	4979.3	4986.6	5057.9	5134.2	5071.5	5019.8	5018.6	5034.6	5024.7
30°	5322.3	5296.5	5285.4	5294.0	5343.2	5416.9	5366.5	5335.8	5361.6	5372.7	5369.0
32.5°	5641.9	5629.6	5625.9	5623.5	5683.7	5725.5	5700.9	5707.1	5728.0	5778.4	5762.4
35°	6005.8	5970.2	5980.0	5987.4	6066.1	6069.8	6072.2	6083.3	6138.6	6209.9	6168.1
37.5°	6384.5	6375.9	6382.1	6361.2	6418.9	6442.3	6476.7	6513.6	6600.9	6683.3	6666.1
40°	6852.9	6837.0	6843.1	6818.5	6846.8	6865.2	6935.3	7015.2	7127.1	7215.6	7175.1
42.5°	7473.8	7433.2	7433.2	7440.6	7499.6	7480.0	7629.9	7652.1	7791.0	7866.0	7842.6
45°	8204.1	8189.3	8111.9	7981.6	7907.8	7906.6	8027.1	8206.6	8436.5	8592.6	8591.4
47.5°	9132.3	9086.8	8901.2	8587.7	8400.8	8355.3	8482.0	8831.1	9254.0	9497.5	9493.8
50°	10349.5	10291.7	10010.2	9523.3	9159.4	9047.5	9250.4	9702.8	10272.0	10596.6	10623.7
52.5°	11711.7	11716.6	11398.2	10661.8	10123.3	9921.6	10136.8	10783.5	11492.9	11937.9	11990.8
55°	13294.0	13255.9	12954.7	12119.9	11378.5	10945.8	11271.6	12128.5	12943.6	13282.9	13376.4
57.5°	14941.5	14792.7	14561.6	13780.9	12914.1	12360.9	12751.8	13590.3	14371.0	14803.8	14789.0
60°	16402.1	16303.7	16170.9	15548.8	14883.7	14251.7	14553.0	15262.4	15931.2	16193.0	16204.1
62.5°	17997.9	17915.5	17796.2	17455.7	17089.3	16854.5	16581.5	16909.8	17432.3	17718.8	17812.2
65°	19564.2	19534.7	19603.5	19551.9	19706.8	19672.4	19018.3	18811.8	18820.4	18739.2	18697.4
67.5°	19472.0	19460.9	19866.6	20675.6	22219.8	22657.5	20979.3	19110.5	18268.4	18054.4	18023.7
70°	18052.0	18171.2	18922.4	20505.9	23323.8	23827.9	21530.1	18138.0	17061.0	16525.0	16392.2
72.5°	15320.1	15553.7	16705.7	19038.0	22406.7	22522.2	20145.7	16675.0	15089.0	14449.7	14355.0
75°	11821.1	11850.6	13029.7	15993.9	19997.0	20142.0	17970.8	13986.2	12426.0	11630.6	11606.0
77.5°	7199.6	7618.9	9338.9	11992.0	15896.7	16651.6	15030.0	11140.0	9284.8	8580.3	8186.9
80°	3532.2	3724.0	4963.3	7582.0	11362.5	12627.6	11153.5	7704.9	5726.8	4833.0	4734.6
82.5°	1608.1	1710.2	2348.2	3963.7	6856.6	8424.2	6883.7	4412.5	3057.6	2391.3	2369.1
85°	624.6	620.9	950.4	1663.4	3282.6	4664.5	3485.5	2104.8	1399.1	1040.1	981.1
87.5°	182.0	194.3	279.1	545.9	972.5	1310.6	1074.5	727.8	430.3	276.6	254.5
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)