

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: P510592

Luminaire Tested: **CST-CA10-760-727-U-T5**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510592  
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-CA10-760-727-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: 93061 lumens  
Efficiency: N/A  
Efficacy: 122.1 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5

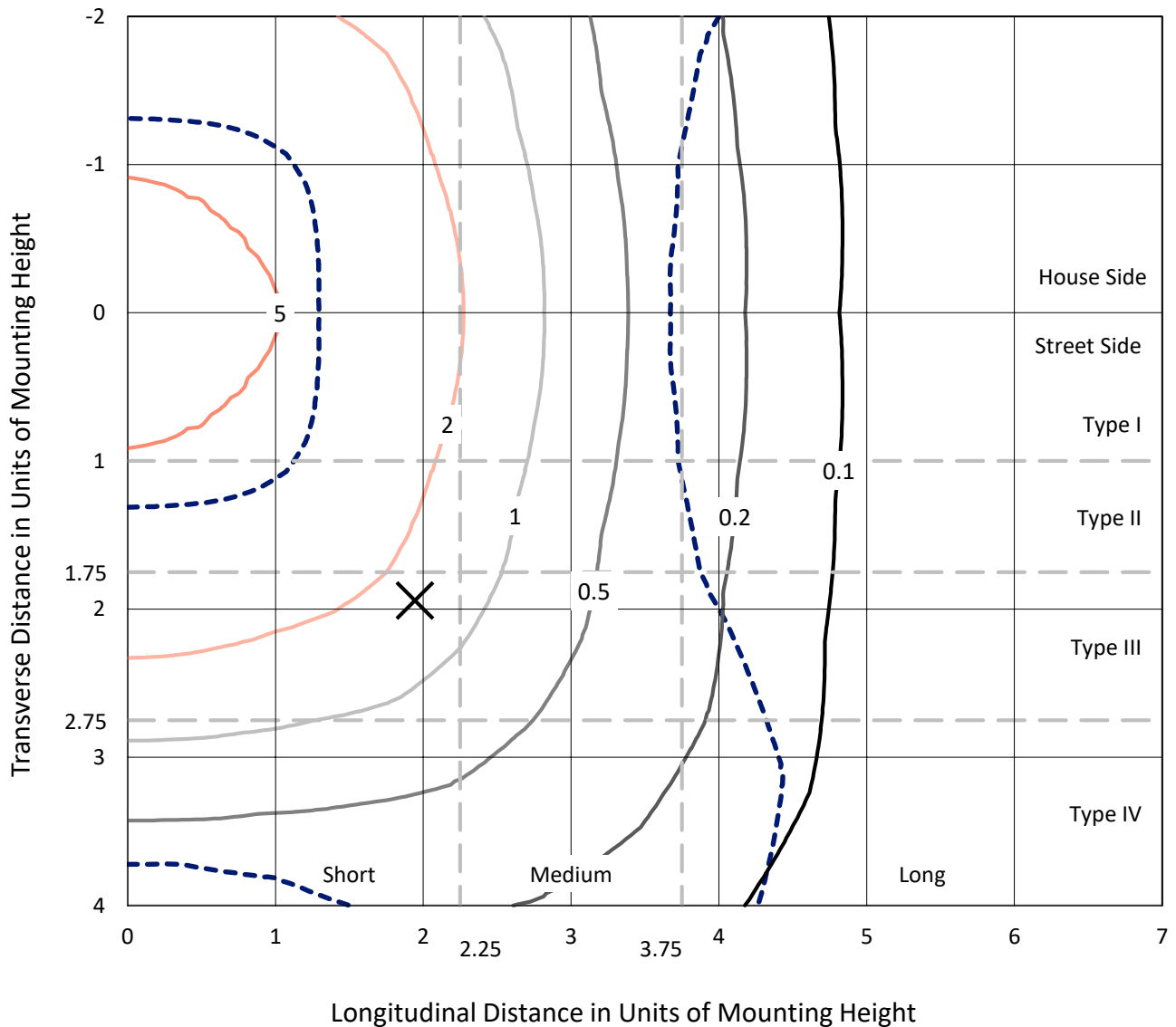
Input Watts (W): 761.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

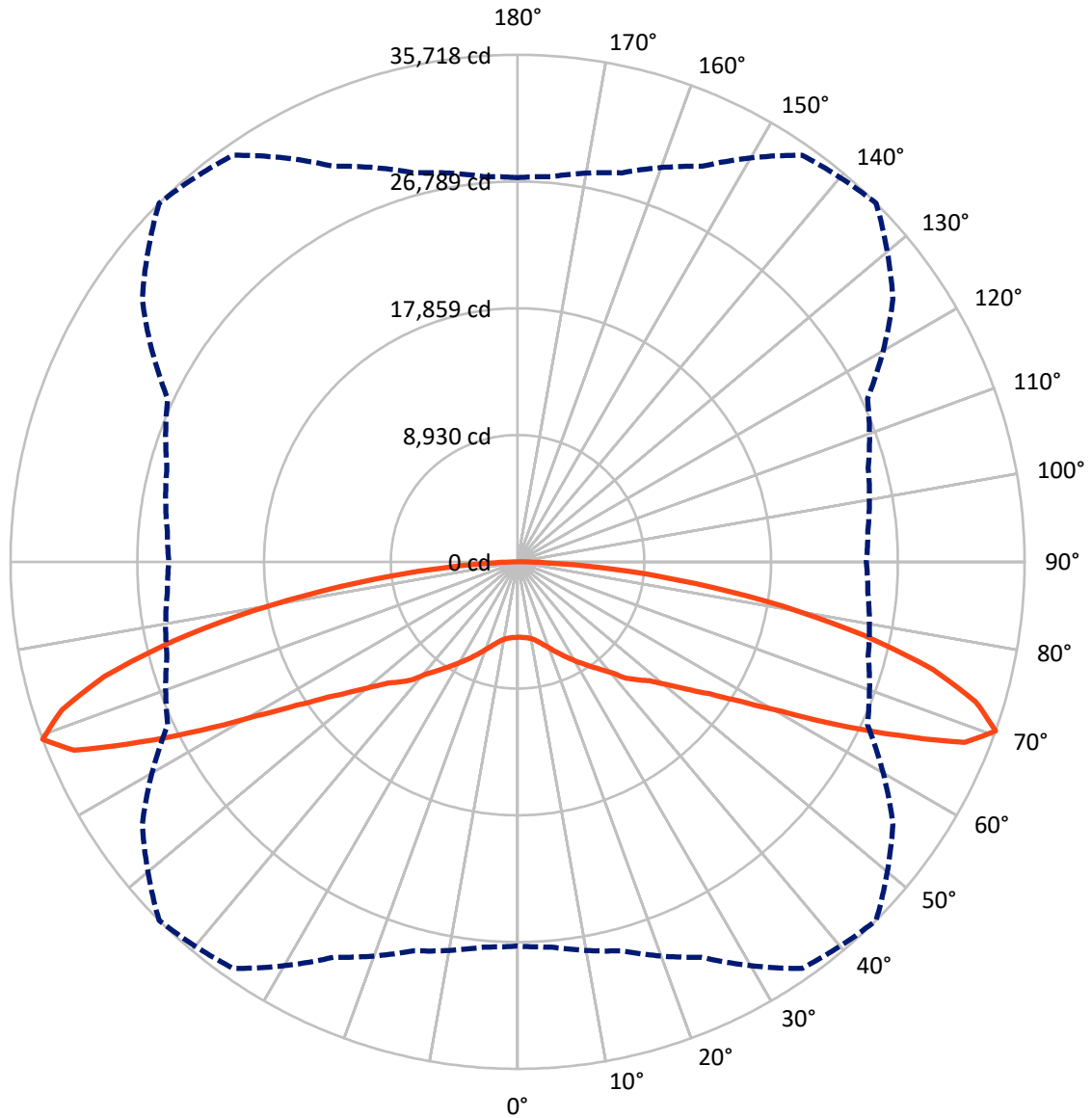
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6 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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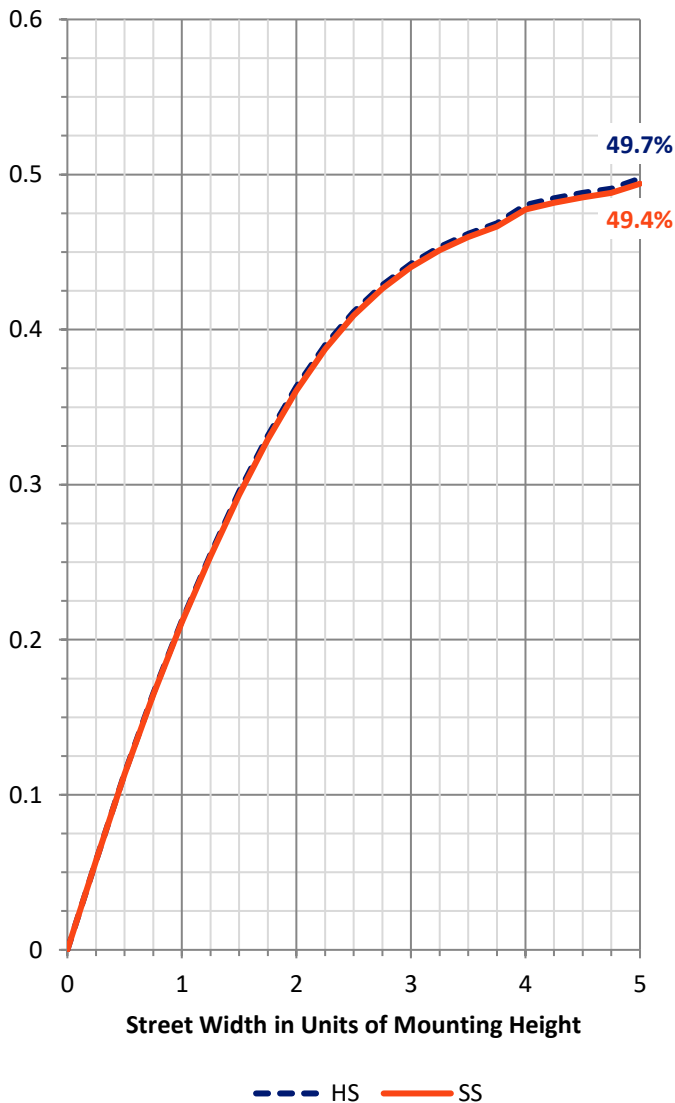
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	46530.5	0.0	46530.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	46530.5	0.0	46530.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	93061.0	0.0	93061.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	517.0	0.6
10°-20°	1683.7	1.8
20°-30°	3333.1	3.6
30°-40°	5765.9	6.2
40°-50°	9593.6	10.3
50°-60°	16732.9	18.0
60°-70°	27700.4	29.8
70°-80°	23215.1	24.9
80°-90°	4519.2	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°	93061.0	100.0
0°-180°	93061.0	100.0

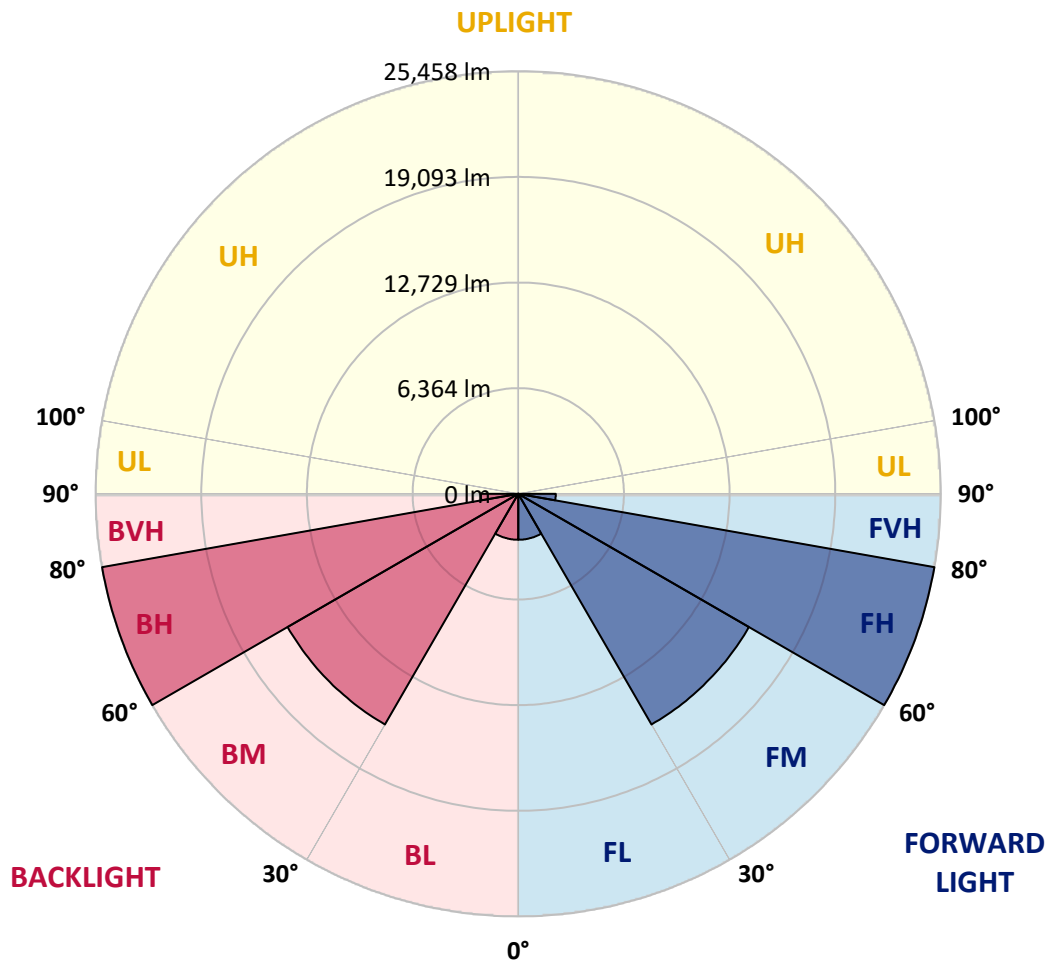


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2766.9	3.0			
FM (30°-60°)	16046.2	17.2			
FH (60°-80°)	25457.8	27.4			G5
FVH (80°-90°)	2259.6	2.4			G5
BL (0°-30°)	2766.9	3.0	B4/5000		
BM (30°-60°)	16046.2	17.2	B5		
BH (60°-80°)	25457.8	27.4	B5		G5
BVH (80°-90°)	2259.6	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°	5318.7	5318.7	5318.7	5318.7	5318.7	5318.7	5318.7	5318.7	5318.7	5318.7	5318.7
2.5°	5351.9	5335.3	5329.8	5324.3	5327.9	5326.1	5335.3	5339.0	5342.7	5359.3	5350.1
5°	5385.1	5372.2	5370.3	5363.0	5361.1	5361.1	5374.0	5375.9	5377.7	5388.8	5377.7
7.5°	5445.9	5433.0	5429.3	5425.6	5423.8	5416.4	5425.6	5421.9	5425.6	5431.2	5418.3
10°	5541.7	5527.0	5523.3	5514.1	5519.6	5508.6	5515.9	5506.7	5490.1	5493.8	5475.4
12.5°	5672.6	5659.7	5665.2	5663.4	5685.5	5679.9	5665.2	5646.8	5619.1	5600.7	5580.4
15°	5866.1	5845.8	5860.6	5875.3	5897.4	5906.6	5895.6	5845.8	5805.3	5775.8	5759.2
17.5°	6102.0	6068.8	6098.3	6127.8	6175.7	6184.9	6144.4	6083.6	6039.3	6026.4	5998.8
20°	6376.6	6371.1	6372.9	6420.8	6494.5	6507.4	6454.0	6382.1	6337.9	6339.7	6308.4
22.5°	6708.3	6678.8	6688.0	6736.0	6841.0	6876.0	6787.6	6708.3	6680.7	6688.0	6684.4
25°	7088.0	7060.3	7047.4	7069.5	7205.9	7266.7	7181.9	7089.8	7076.9	7093.5	7067.7
27.5°	7504.5	7478.7	7463.9	7475.0	7581.9	7696.1	7602.1	7524.7	7522.9	7546.8	7532.1
30°	7978.1	7939.4	7922.8	7935.7	8009.4	8120.0	8044.4	7998.4	8037.1	8053.7	8048.1
32.5°	8457.3	8438.8	8433.3	8429.6	8519.9	8582.6	8545.7	8554.9	8586.3	8661.8	8637.9
35°	9002.8	8949.3	8964.1	8975.1	9093.1	9098.6	9102.3	9118.9	9201.8	9308.7	9246.0
37.5°	9570.4	9557.5	9566.7	9535.4	9622.0	9657.0	9708.6	9763.9	9894.8	10018.2	9992.4
40°	10272.6	10248.6	10257.8	10221.0	10263.3	10291.0	10396.0	10515.8	10683.5	10816.2	10755.4
42.5°	11203.2	11142.4	11142.4	11153.5	11241.9	11212.5	11437.3	11470.5	11678.7	11791.1	11756.1
45°	12298.0	12275.8	12159.7	11964.4	11853.8	11852.0	12032.6	12301.6	12646.3	12880.3	12878.5
47.5°	13689.4	13621.2	13342.9	12873.0	12592.8	12524.6	12714.5	13237.9	13871.8	14236.7	14231.2
50°	15513.9	15427.3	15005.2	14275.4	13729.9	13562.2	13866.3	14544.5	15397.8	15884.3	15924.9
52.5°	17555.9	17563.2	17085.9	15982.0	15174.8	14872.5	15195.1	16164.4	17227.8	17895.0	17974.2
55°	19927.7	19870.6	19419.1	18167.7	17056.4	16407.7	16896.1	18180.6	19402.5	19911.2	20051.2
57.5°	22397.3	22174.3	21827.8	20657.5	19358.3	18528.9	19115.0	20371.9	21542.2	22190.9	22168.8
60°	24586.7	24439.3	24240.2	23307.7	22310.7	21363.4	21814.9	22878.3	23880.8	24273.4	24290.0
62.5°	26978.8	26855.4	26676.6	26166.1	25616.9	25264.9	24855.8	25347.8	26131.1	26560.5	26700.6
65°	29326.7	29282.5	29385.7	29308.3	29540.5	29488.9	28508.5	28198.9	28211.8	28090.1	28027.5
67.5°	29188.5	29171.9	29780.1	30992.8	33307.5	33963.6	31448.0	28646.7	27384.3	27063.6	27017.5
70°	27059.9	27238.7	28364.7	30738.4	34962.5	35718.1	32273.6	27188.9	25574.5	24771.0	24572.0
72.5°	22964.9	23315.1	25041.9	28538.0	33587.6	33760.9	30198.5	24995.8	22618.4	21660.1	21518.2
75°	17719.9	17764.1	19531.5	23974.8	29975.5	30192.9	26938.3	20965.3	18626.6	17434.2	17397.4
77.5°	10792.3	11420.7	13999.0	17976.1	23829.2	24960.8	22530.0	16698.9	13917.9	12861.9	12272.2
80°	5294.8	5582.3	7440.0	11365.4	17032.5	18928.9	16719.2	11549.7	8584.4	7244.6	7097.2
82.5°	2410.6	2563.5	3520.0	5941.6	10278.1	12627.8	10318.6	6614.3	4583.4	3584.5	3551.4
85°	936.2	930.7	1424.6	2493.5	4920.7	6992.1	5224.7	3155.1	2097.3	1559.1	1470.7
87.5°	272.8	291.2	418.3	818.3	1457.8	1964.6	1610.7	1091.0	645.0	414.7	381.5
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)