

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: P510842

Luminaire Tested: **CST-CA8-480-730-U-T5**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510842  
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-CA8-480-730-U-T5  
Description: CELESTEON HIGH MAST LUMINAIRE  
Light Source: (8) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 71987 lumens  
Efficiency: N/A  
Efficacy: 149.7 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5

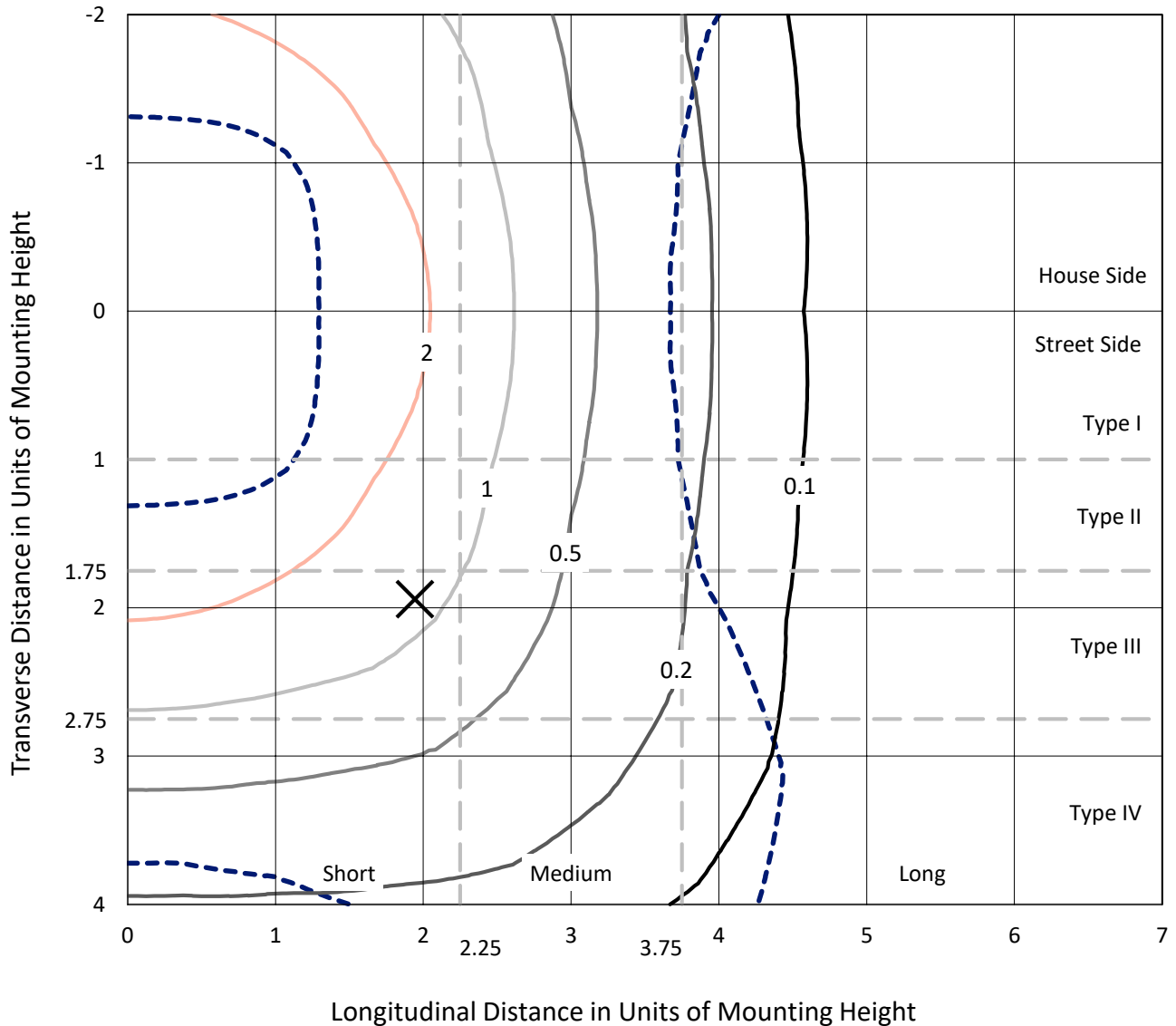
Input Watts (W): 480.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

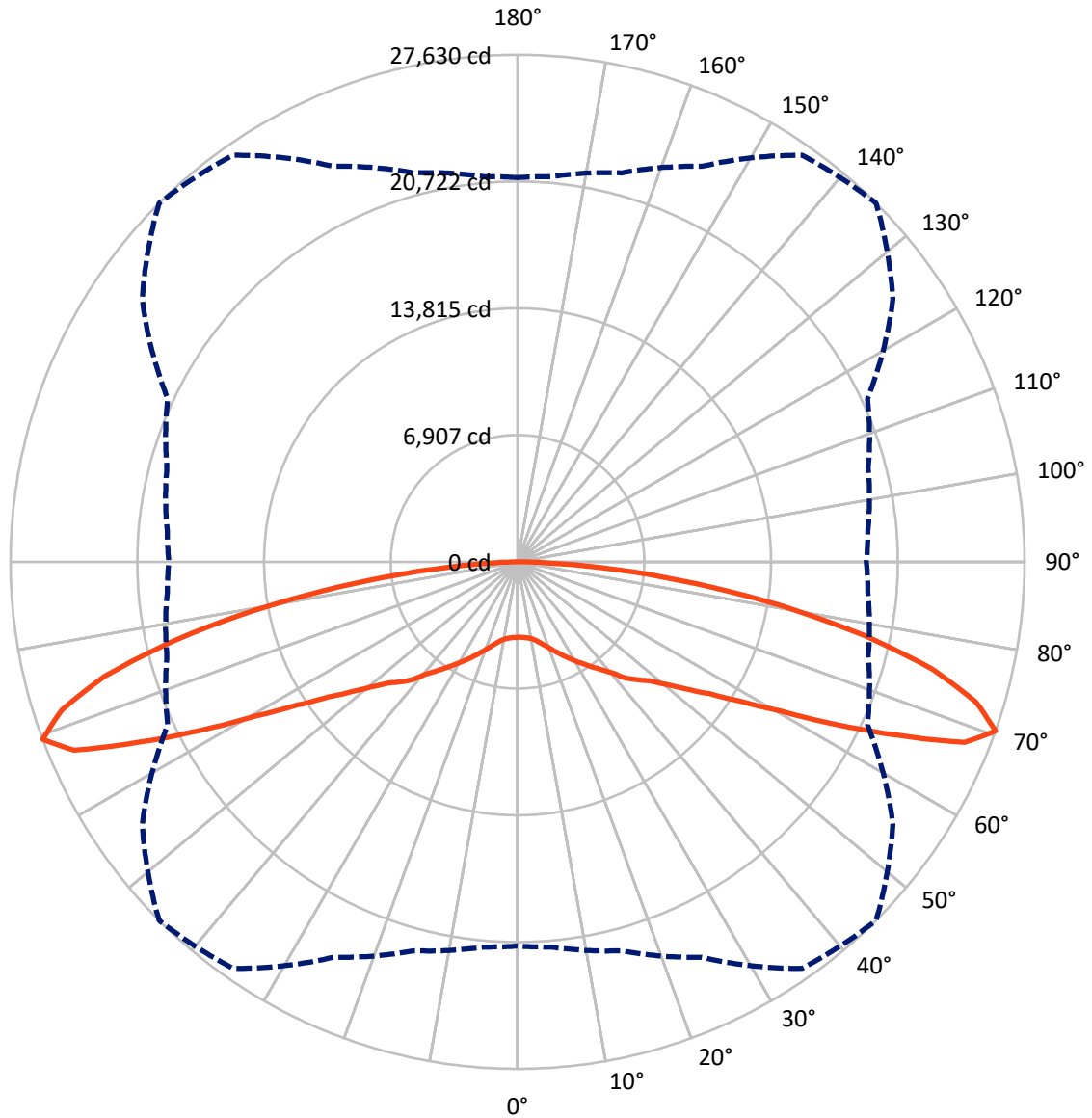
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.6 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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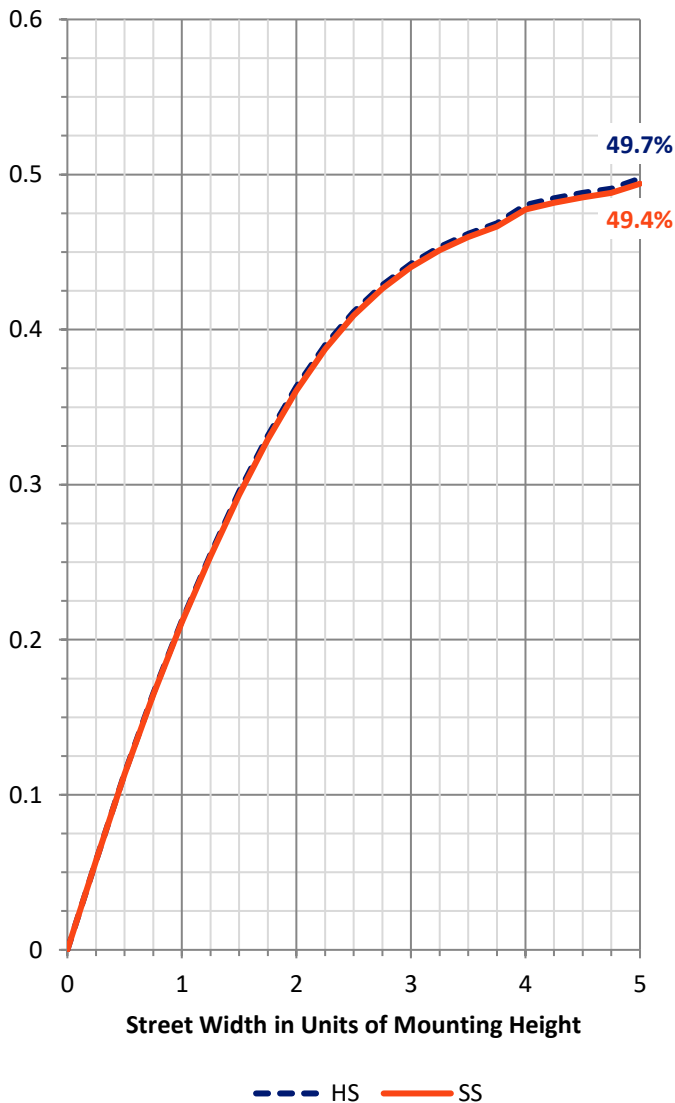
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	35993.5	0.0	35993.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	35993.5	0.0	35993.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	71987.0	0.0	71987.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	399.9	0.6
10°-20°	1302.4	1.8
20°-30°	2578.3	3.6
30°-40°	4460.2	6.2
40°-50°	7421.1	10.3
50°-60°	12943.6	18.0
60°-70°	21427.6	29.8
70°-80°	17958.0	24.9
80°-90°	3495.8	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°	71987.0	100.0
0°-180°	71987.0	100.0

**Coefficient of Utilization**

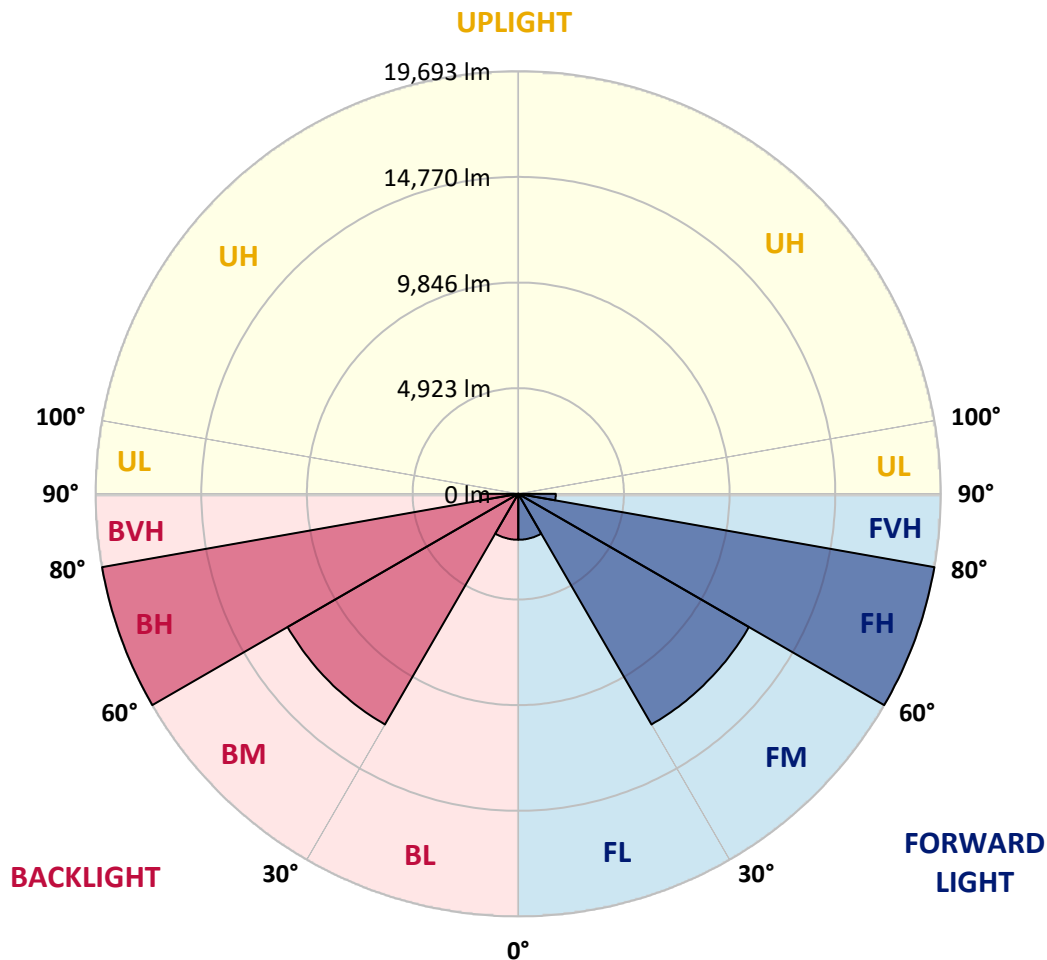


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2140.3	3.0			
FM (30°-60°)	12412.5	17.2			
FH (60°-80°)	19692.8	27.4			G5
FVH (80°-90°)	1747.9	2.4			G5
BL (0°-30°)	2140.3	3.0	B3/2500		
BM (30°-60°)	12412.5	17.2	B5		
BH (60°-80°)	19692.8	27.4	B5		G5
BVH (80°-90°)	1747.9	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°	4114.3	4114.3	4114.3	4114.3	4114.3	4114.3	4114.3	4114.3	4114.3	4114.3	4114.3
2.5°	4139.9	4127.1	4122.8	4118.6	4121.4	4120.0	4127.1	4130.0	4132.8	4145.6	4138.5
5°	4165.6	4155.6	4154.2	4148.5	4147.1	4147.1	4157.1	4158.5	4159.9	4168.5	4159.9
7.5°	4212.7	4202.7	4199.8	4197.0	4195.5	4189.8	4197.0	4194.1	4197.0	4201.2	4191.3
10°	4286.8	4275.4	4272.5	4265.4	4269.7	4261.1	4266.8	4259.7	4246.9	4249.7	4235.5
12.5°	4388.0	4378.0	4382.3	4380.9	4398.0	4393.7	4382.3	4368.0	4346.7	4332.4	4316.7
15°	4537.7	4522.0	4533.4	4544.8	4561.9	4569.1	4560.5	4522.0	4490.6	4467.8	4455.0
17.5°	4720.2	4694.5	4717.3	4740.1	4777.2	4784.3	4753.0	4705.9	4671.7	4661.7	4640.3
20°	4932.6	4928.3	4929.7	4966.8	5023.8	5033.8	4992.5	4936.9	4902.6	4904.1	4879.8
22.5°	5189.2	5166.4	5173.5	5210.6	5291.8	5318.9	5250.5	5189.2	5167.8	5173.5	5170.7
25°	5482.9	5461.5	5451.5	5468.6	5574.1	5621.1	5555.6	5484.3	5474.3	5487.1	5467.2
27.5°	5805.0	5785.1	5773.7	5782.2	5864.9	5953.3	5880.6	5820.7	5819.3	5837.8	5826.4
30°	6171.4	6141.5	6128.7	6138.6	6195.7	6281.2	6222.8	6187.1	6217.0	6229.9	6225.6
32.5°	6542.1	6527.8	6523.6	6520.7	6590.6	6639.0	6610.5	6617.6	6641.9	6700.3	6681.8
35°	6964.1	6922.7	6934.1	6942.7	7033.9	7038.2	7041.0	7053.9	7118.0	7200.7	7152.2
37.5°	7403.1	7393.2	7400.3	7376.1	7443.1	7470.2	7510.1	7552.8	7654.1	7749.6	7729.6
40°	7946.3	7927.8	7934.9	7906.4	7939.2	7960.6	8041.8	8134.5	8264.2	8366.9	8319.8
42.5°	8666.2	8619.2	8619.2	8627.7	8696.2	8673.4	8847.3	8872.9	9034.0	9121.0	9093.9
45°	9513.0	9495.9	9406.1	9255.0	9169.5	9168.0	9307.8	9515.9	9782.5	9963.5	9962.1
47.5°	10589.4	10536.6	10321.4	9957.8	9741.1	9688.4	9835.2	10240.1	10730.5	11012.8	11008.5
50°	12000.7	11933.7	11607.2	11042.7	10620.7	10491.0	10726.2	11250.8	11910.9	12287.3	12318.6
52.5°	13580.3	13586.0	13216.8	12362.8	11738.4	11504.6	11754.1	12504.0	13326.5	13842.6	13903.9
55°	15415.0	15370.8	15021.6	14053.6	13193.9	12692.1	13069.9	14063.6	15008.7	15402.2	15510.5
57.5°	17325.3	17152.8	16884.8	15979.6	14974.5	14333.0	14786.3	15758.6	16663.9	17165.7	17148.6
60°	19018.9	18904.9	18750.9	18029.6	17258.3	16525.6	16874.8	17697.4	18472.9	18776.6	18789.4
62.5°	20869.4	20773.9	20635.6	20240.7	19815.9	19543.6	19227.1	19607.7	20213.6	20545.8	20654.1
65°	22685.6	22651.4	22731.2	22671.3	22851.0	22811.0	22052.6	21813.1	21823.1	21729.0	21680.5
67.5°	22578.7	22565.8	23036.3	23974.3	25764.9	26272.4	24326.5	22159.5	21183.0	20935.0	20899.3
70°	20932.1	21070.4	21941.4	23777.6	27045.1	27629.6	24965.1	21031.9	19783.1	19161.5	19007.5
72.5°	17764.4	18035.3	19371.1	22075.4	25981.6	26115.6	23359.9	19335.4	17496.4	16755.1	16645.3
75°	13707.2	13741.4	15108.5	18545.6	23187.4	23355.6	20838.0	16217.6	14408.6	13486.2	13457.7
77.5°	8348.3	8834.5	10828.9	13905.3	18433.0	19308.3	17428.0	12917.4	10766.1	9949.3	9493.1
80°	4095.8	4318.1	5755.2	8791.7	13175.4	14642.4	12933.1	8934.2	6640.5	5604.0	5490.0
82.5°	1864.7	1983.0	2722.9	4596.1	7950.6	9768.2	7981.9	5116.5	3545.5	2772.8	2747.1
85°	724.2	719.9	1102.0	1928.8	3806.4	5408.7	4041.6	2440.6	1622.3	1206.1	1137.6
87.5°	211.0	225.2	323.6	633.0	1127.7	1519.7	1246.0	844.0	499.0	320.8	295.1
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)