

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: P721904

Luminaire Tested: **CST-CA8-430-727-U-T5**

Issue Date: 10/25/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P721904  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-3)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: CST-CA8-430-727-U-T5  
Description: CELESTEON HIGH MAST LUMINAIRE  
Light Source: (8) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

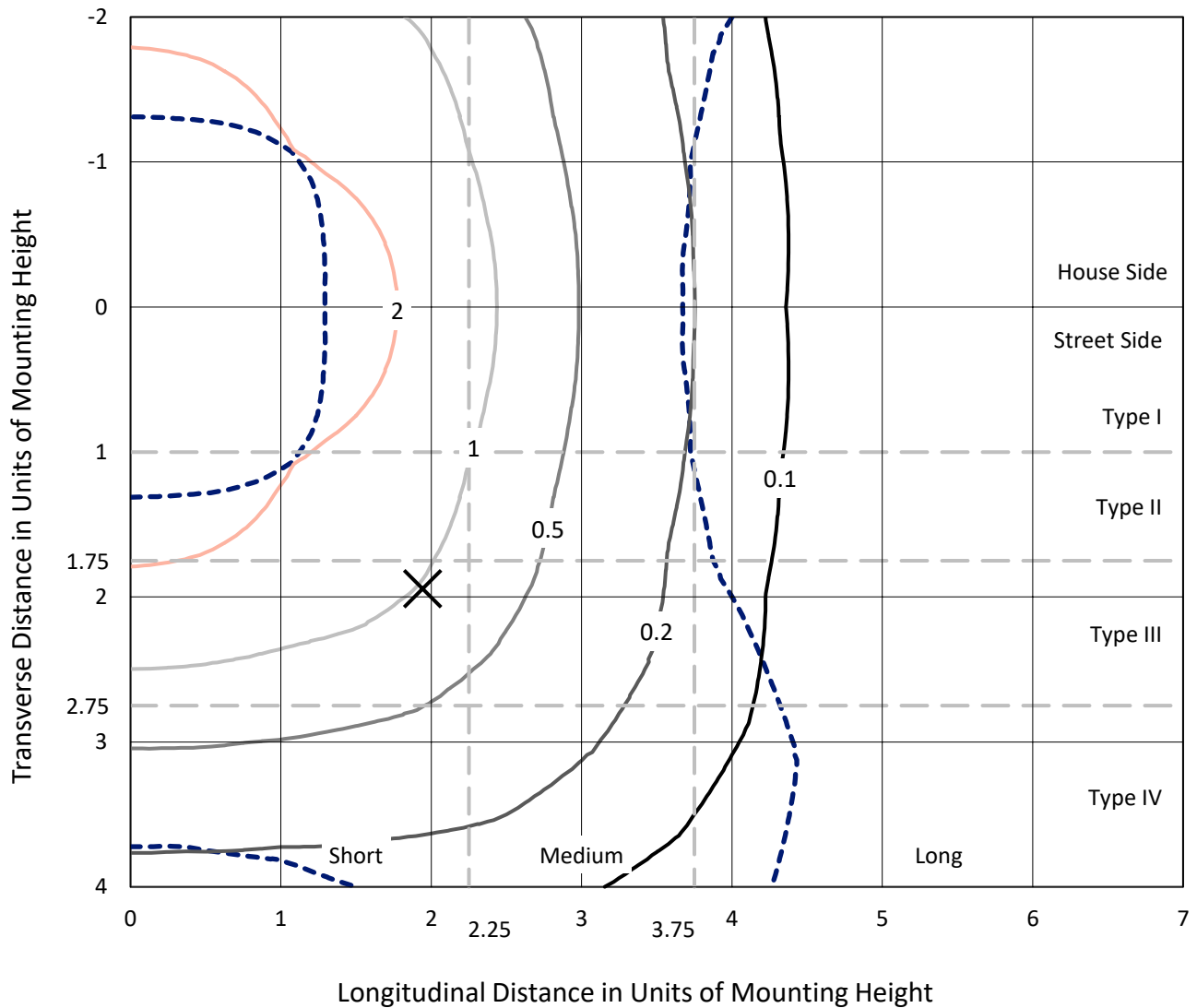
Lumens per Lamp: N/A  
Luminaire Lumens: 56967 lumens  
Efficiency: N/A  
Efficacy: 131.2 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 434.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage 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: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

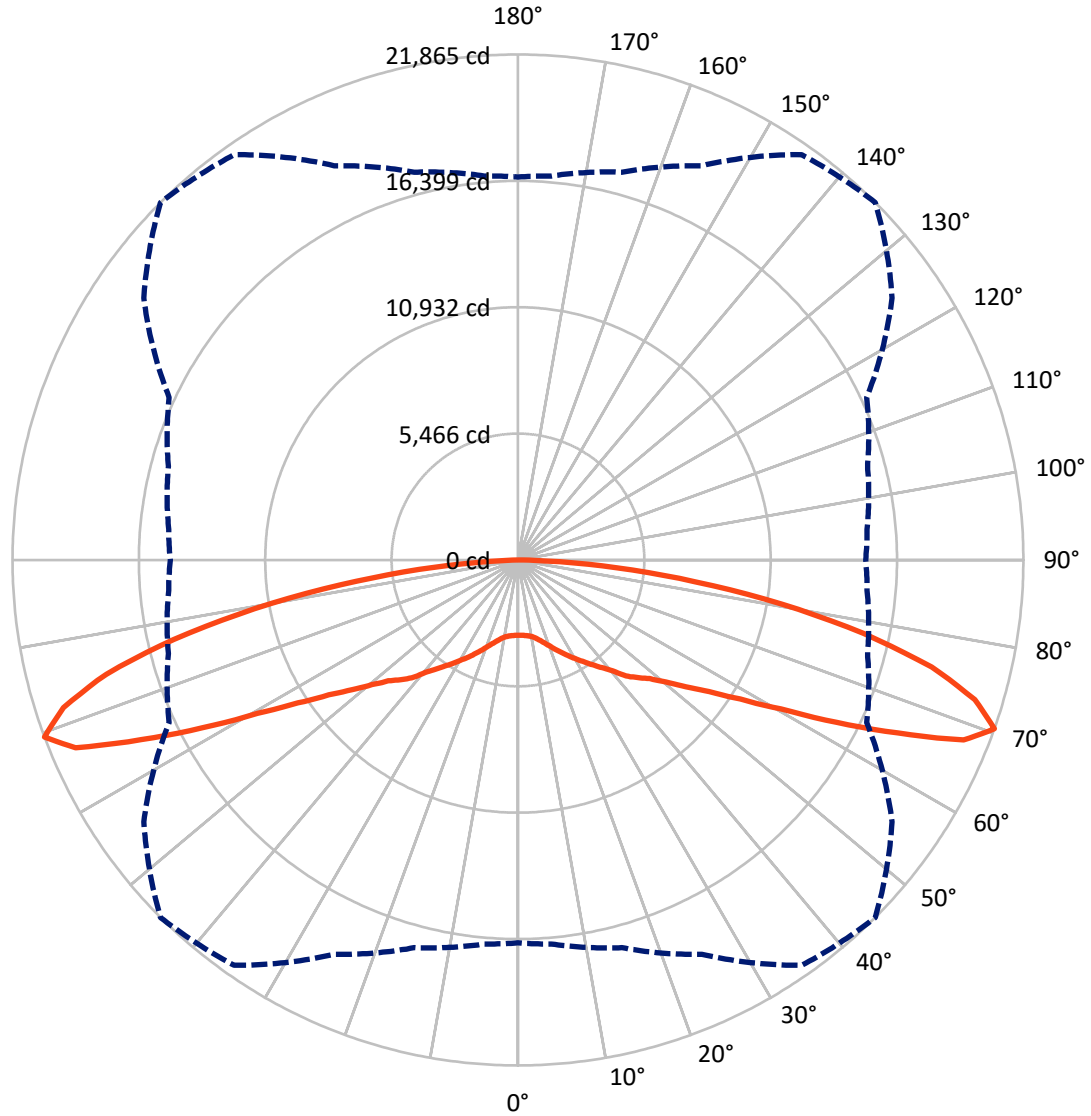
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.7 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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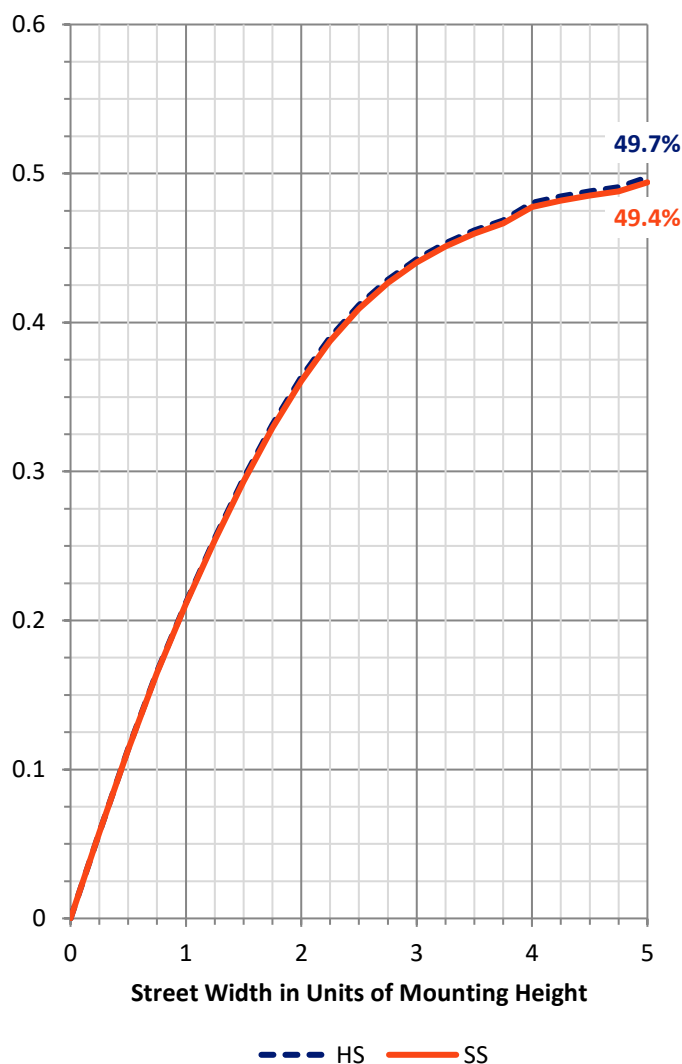
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	28483.5	0.0	28483.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	28483.5	0.0	28483.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	56967.0	0.0	56967.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	316.5	0.6
10°-20°	1030.7	1.8
20°-30°	2040.3	3.6
30°-40°	3529.6	6.2
40°-50°	5872.7	10.3
50°-60°	10243.0	18.0
60°-70°	16956.7	29.8
70°-80°	14211.1	24.9
80°-90°	2766.4	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°	56967.0	100.0
0°-180°	56967.0	100.0

**Coefficient of Utilization**

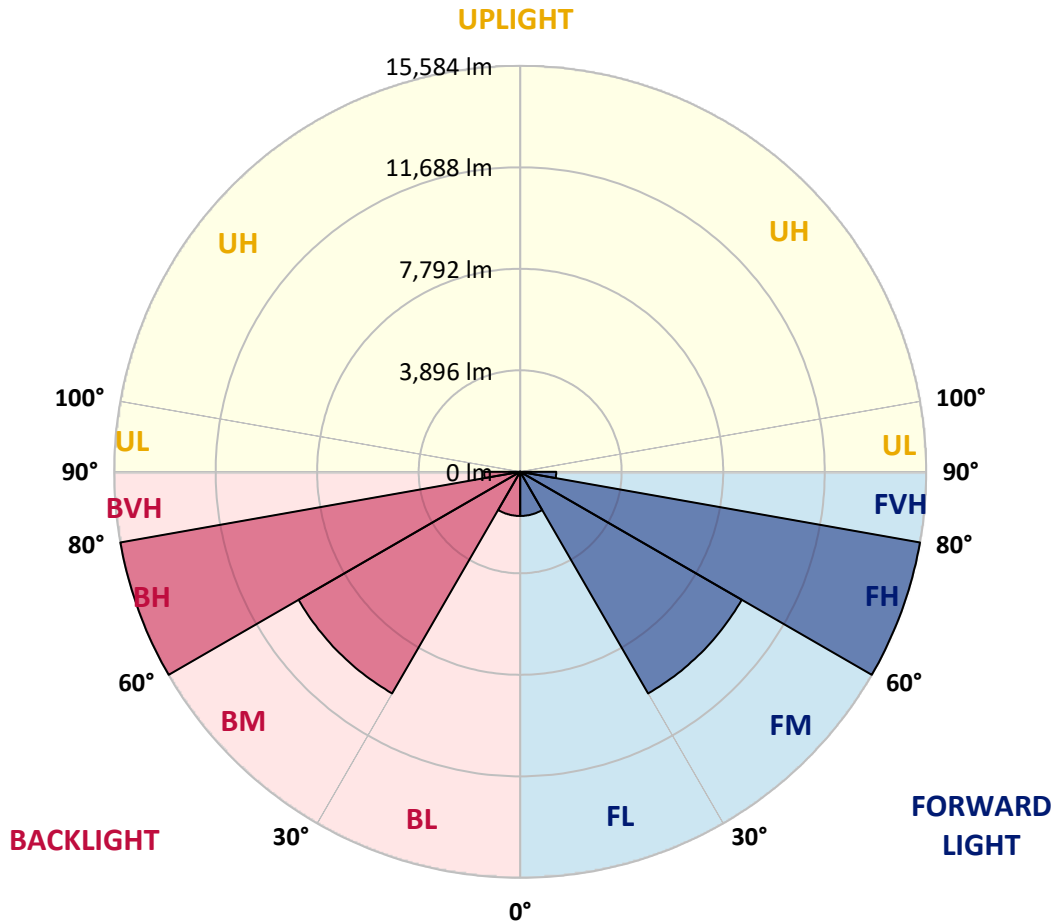


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1693.7	3.0			
FM (30°-60°)	9822.6	17.2			
FH (60°-80°)	15583.9	27.4			G5
FVH (80°-90°)	1383.2	2.4			G5
BL (0°-30°)	1693.7	3.0	B3/2500		
BM (30°-60°)	9822.6	17.2	B5		
BH (60°-80°)	15583.9	27.4	B5		G5
BVH (80°-90°)	1383.2	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°	3255.8	3255.8	3255.8	3255.8	3255.8	3255.8	3255.8	3255.8	3255.8	3255.8	3255.8
2.5°	3276.2	3266.0	3262.6	3259.2	3261.5	3260.4	3266.0	3268.3	3270.5	3280.7	3275.0
5°	3296.5	3288.6	3287.4	3282.9	3281.8	3281.8	3289.7	3290.8	3291.9	3298.7	3291.9
7.5°	3333.7	3325.8	3323.5	3321.3	3320.1	3315.6	3321.3	3319.0	3321.3	3324.7	3316.8
10°	3392.4	3383.3	3381.1	3375.4	3378.8	3372.0	3376.6	3370.9	3360.8	3363.0	3351.7
12.5°	3472.5	3464.6	3467.9	3466.8	3480.3	3477.0	3467.9	3456.7	3439.7	3428.5	3416.0
15°	3590.9	3578.5	3587.5	3596.5	3610.1	3615.7	3609.0	3578.5	3553.7	3535.6	3525.5
17.5°	3735.3	3715.0	3733.1	3751.1	3780.4	3786.1	3761.3	3724.0	3697.0	3689.1	3672.1
20°	3903.4	3900.0	3901.1	3930.5	3975.6	3983.5	3950.8	3906.8	3879.7	3880.8	3861.7
22.5°	4106.5	4088.4	4094.1	4123.4	4187.7	4209.1	4155.0	4106.5	4089.5	4094.1	4091.8
25°	4338.9	4321.9	4314.1	4327.6	4411.1	4448.3	4396.4	4340.0	4332.1	4342.3	4326.5
27.5°	4593.8	4578.0	4569.0	4575.8	4641.2	4711.2	4653.6	4606.2	4605.1	4619.8	4610.8
30°	4883.8	4860.1	4849.9	4857.8	4902.9	4970.6	4924.4	4896.2	4919.9	4930.0	4926.6
32.5°	5177.1	5165.8	5162.4	5160.2	5215.4	5253.8	5231.2	5236.9	5256.1	5302.3	5287.6
35°	5511.0	5478.3	5487.3	5494.1	5566.3	5569.7	5571.9	5582.1	5632.9	5698.3	5659.9
37.5°	5858.5	5850.6	5856.2	5837.1	5890.1	5911.5	5943.1	5976.9	6057.0	6132.6	6116.8
40°	6288.3	6273.7	6279.3	6256.7	6282.7	6299.6	6363.9	6437.2	6539.9	6621.1	6583.9
42.5°	6858.0	6820.8	6820.8	6827.6	6881.7	6863.7	7001.3	7021.6	7149.1	7217.9	7196.5
45°	7528.2	7514.6	7443.5	7324.0	7256.3	7255.1	7365.7	7530.4	7741.4	7884.7	7883.5
47.5°	8379.9	8338.2	8167.8	7880.1	7708.7	7666.9	7783.1	8103.5	8491.6	8715.0	8711.6
50°	9496.8	9443.8	9185.4	8738.7	8404.7	8302.1	8488.2	8903.4	9425.7	9723.5	9748.4
52.5°	10746.8	10751.3	10459.1	9783.3	9289.2	9104.2	9301.6	9895.0	10546.0	10954.4	11002.9
55°	12198.7	12163.7	11887.3	11121.3	10441.0	10043.9	10342.9	11129.2	11877.2	12188.5	12274.3
57.5°	13710.4	13573.9	13361.8	12645.4	11850.1	11342.4	11701.2	12470.6	13187.0	13584.1	13570.5
60°	15050.7	14960.4	14838.6	14267.7	13657.4	13077.5	13353.9	14004.9	14618.6	14858.9	14869.0
62.5°	16515.0	16439.4	16330.0	16017.5	15681.3	15465.8	15215.4	15516.6	15996.1	16258.9	16344.7
65°	17952.3	17925.2	17988.4	17941.0	18083.1	18051.6	17451.4	17261.8	17269.7	17195.3	17156.9
67.5°	17867.7	17857.5	18229.8	18972.1	20389.1	20790.7	19250.8	17536.0	16763.2	16566.9	16538.7
70°	16564.6	16674.1	17363.4	18816.4	21402.2	21864.7	19756.2	16643.6	15655.4	15163.5	15041.6
72.5°	14057.9	14272.2	15329.3	17469.4	20560.6	20666.6	18485.9	15301.1	13845.8	13259.2	13172.3
75°	10847.2	10874.3	11956.1	14676.1	18349.4	18482.5	16490.2	12833.9	11402.2	10672.3	10649.7
77.5°	6606.5	6991.2	8569.4	11004.0	14587.0	15279.7	13791.7	10222.2	8519.8	7873.4	7512.4
80°	3241.2	3417.2	4554.3	6957.3	10426.4	11587.2	10234.6	7070.1	5254.9	4434.8	4344.5
82.5°	1475.6	1569.3	2154.8	3637.2	6291.7	7730.1	6316.5	4048.9	2805.7	2194.3	2173.9
85°	573.1	569.7	872.1	1526.4	3012.2	4280.2	3198.3	1931.4	1283.8	954.4	900.3
87.5°	167.0	178.2	256.1	500.9	892.4	1202.6	986.0	667.9	394.9	253.8	233.5
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)