

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: P721934

Luminaire Tested: **CST-CA8-430-750-U-T5**

Issue Date: 10/25/2023

Test Information

Test Method: LM-79-08
Report Number: P721934
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-CA8-430-750-U-T5
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 68507 lumens
Efficiency: N/A
Efficacy: 157.8 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

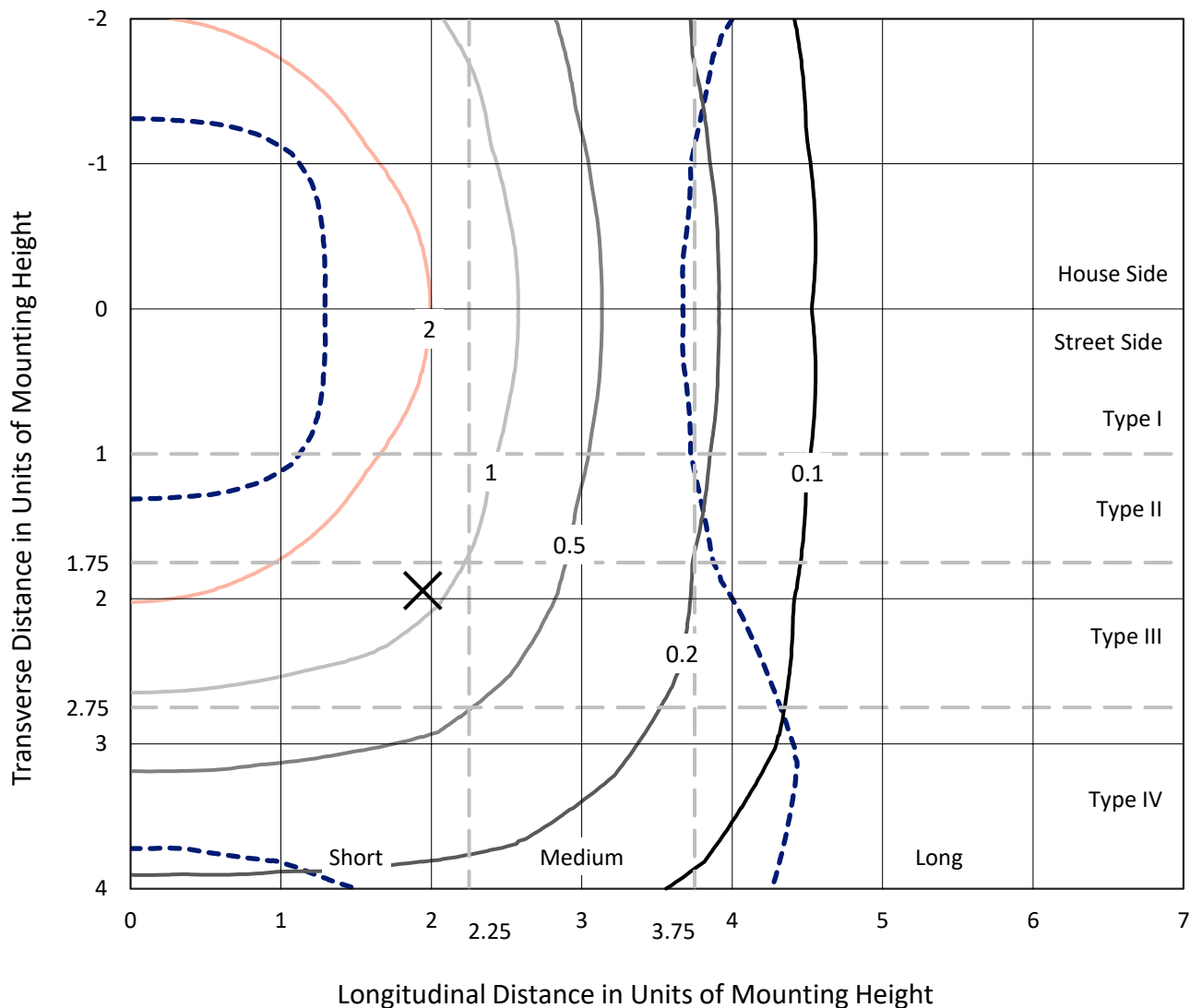
Input Watts (W): 434.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

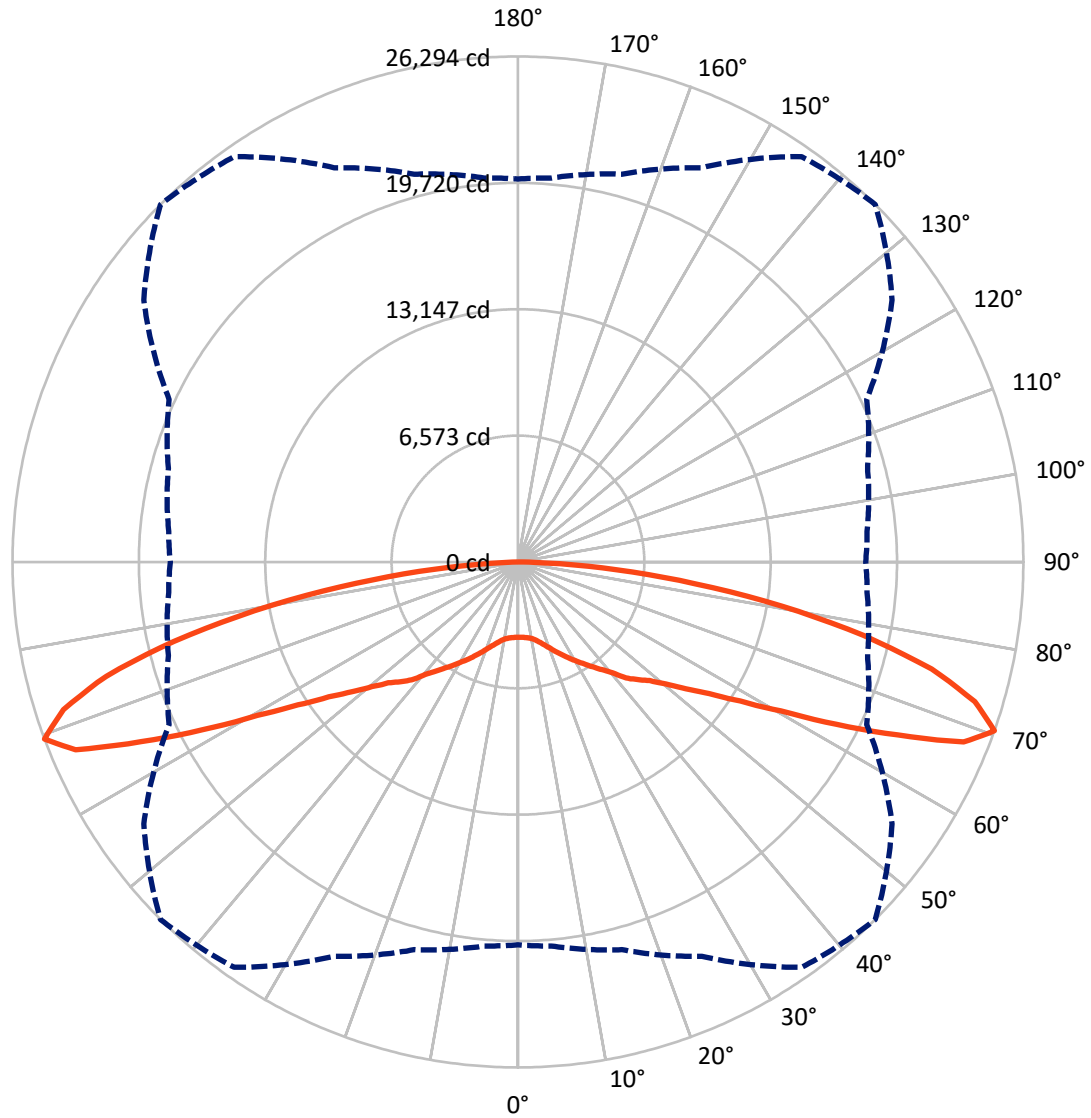
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.4 fc
 Type V - Short - N/A

REPORT NUMBER: P721934
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Luminous Intensity Polar Plot



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

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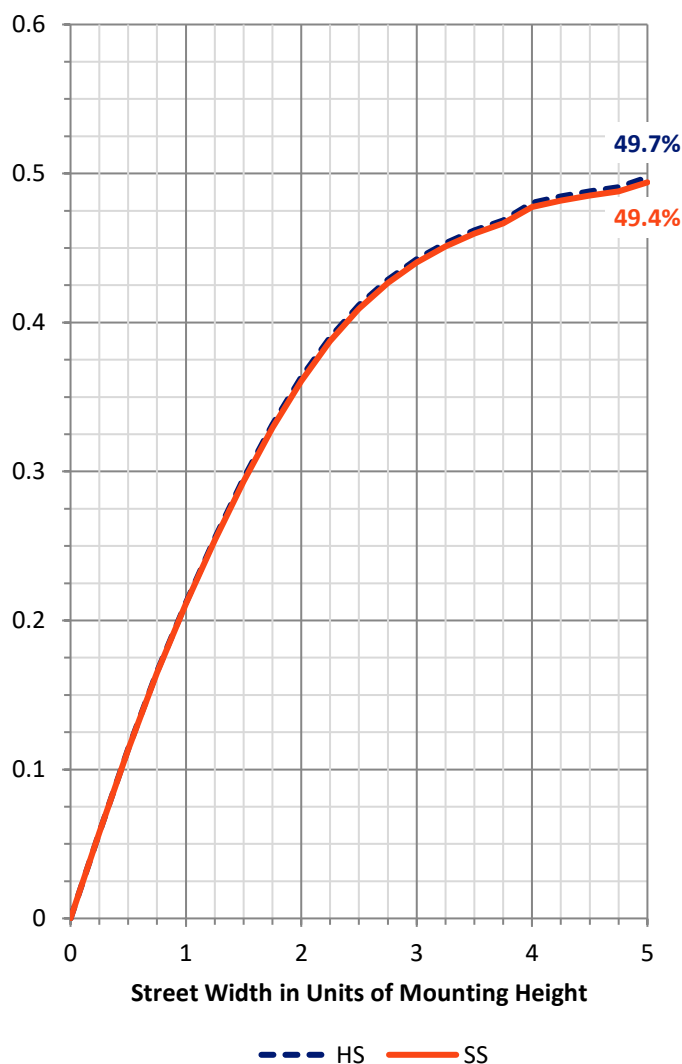
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	34253.5	0.0	34253.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	34253.5	0.0	34253.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	68507.0	0.0	68507.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.6	0.6
10°-20°	1239.5	1.8
20°-30°	2453.6	3.6
30°-40°	4244.6	6.2
40°-50°	7062.4	10.3
50°-60°	12317.9	18.0
60°-70°	20391.7	29.8
70°-80°	17089.9	24.9
80°-90°	3326.8	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°	68507.0	100.0
0°-180°	68507.0	100.0

Coefficient of Utilization



REPORT NUMBER: P721934

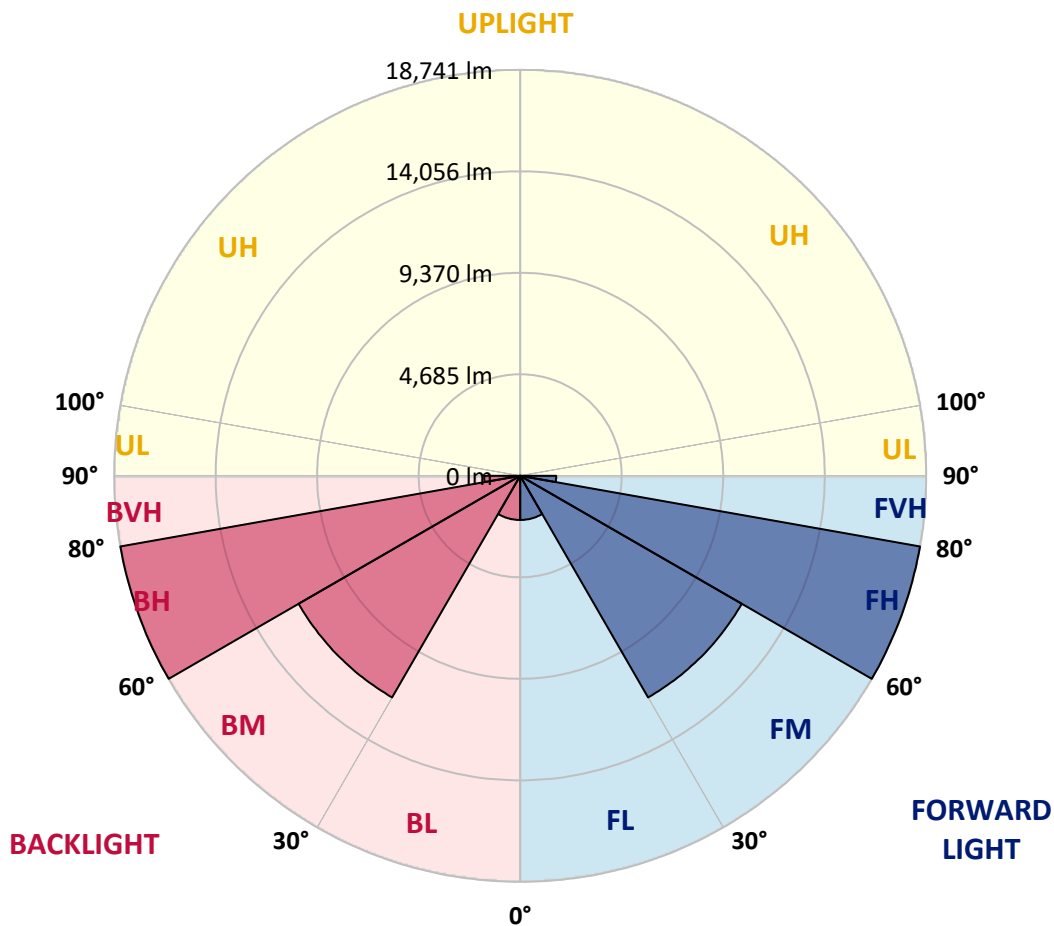
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2036.8	3.0			
FM (30°-60°)	11812.4	17.2			
FH (60°-80°)	18740.8	27.4			G5
FVH (80°-90°)	1663.4	2.4			G5
BL (0°-30°)	2036.8	3.0	B3/2500		
BM (30°-60°)	11812.4	17.2	B5		
BH (60°-80°)	18740.8	27.4	B5		G5
BVH (80°-90°)	1663.4	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°	3915.4	3915.4	3915.4	3915.4	3915.4	3915.4	3915.4	3915.4	3915.4	3915.4	3915.4
2.5°	3939.8	3927.6	3923.5	3919.5	3922.2	3920.8	3927.6	3930.3	3933.0	3945.2	3938.5
5°	3964.2	3954.7	3953.4	3948.0	3946.6	3946.6	3956.1	3957.4	3958.8	3966.9	3958.8
7.5°	4009.0	3999.5	3996.8	3994.1	3992.7	3987.3	3994.1	3991.4	3994.1	3998.2	3988.7
10°	4079.6	4068.7	4066.0	4059.2	4063.3	4055.1	4060.6	4053.8	4041.6	4044.3	4030.7
12.5°	4175.9	4166.4	4170.4	4169.1	4185.4	4181.3	4170.4	4156.9	4136.5	4123.0	4108.0
15°	4318.3	4303.4	4314.3	4325.1	4341.4	4348.2	4340.0	4303.4	4273.6	4251.9	4239.6
17.5°	4492.0	4467.6	4489.3	4511.0	4546.3	4553.0	4523.2	4478.4	4445.9	4436.4	4416.0
20°	4694.1	4690.1	4691.4	4726.7	4781.0	4790.5	4751.1	4698.2	4665.6	4667.0	4643.9
22.5°	4938.3	4916.6	4923.4	4958.7	5036.0	5061.8	4996.7	4938.3	4918.0	4923.4	4920.7
25°	5217.8	5197.5	5188.0	5204.2	5304.6	5349.4	5287.0	5219.2	5209.7	5221.9	5202.9
27.5°	5524.4	5505.4	5494.6	5502.7	5581.4	5665.5	5596.3	5539.3	5538.0	5555.6	5544.8
30°	5873.1	5844.6	5832.4	5841.9	5896.2	5977.6	5921.9	5888.0	5916.5	5928.7	5924.6
32.5°	6225.8	6212.3	6208.2	6205.5	6272.0	6318.1	6290.9	6297.7	6320.8	6376.4	6358.8
35°	6627.4	6588.1	6598.9	6607.1	6693.9	6698.0	6700.7	6712.9	6773.9	6852.6	6806.5
37.5°	7045.3	7035.8	7042.6	7019.5	7083.3	7109.0	7147.0	7187.7	7284.0	7374.9	7355.9
40°	7562.2	7544.5	7551.3	7524.2	7555.4	7575.7	7653.1	7741.2	7864.7	7962.4	7917.6
42.5°	8247.3	8202.5	8202.5	8210.7	8275.8	8254.1	8419.6	8444.0	8597.3	8680.1	8654.3
45°	9053.2	9036.9	8951.4	8807.6	8726.2	8724.8	8857.8	9055.9	9309.6	9481.9	9480.5
47.5°	10077.5	10027.3	9822.4	9476.4	9270.2	9220.0	9359.8	9745.1	10211.8	10480.4	10476.3
50°	11420.6	11356.8	11046.1	10508.9	10107.3	9983.8	10207.7	10707.0	11335.1	11693.3	11723.1
52.5°	12923.8	12929.2	12577.8	11765.2	11170.9	10948.4	11185.9	11899.5	12682.3	13173.4	13231.7
55°	14669.8	14627.8	14295.4	13374.2	12556.1	12078.6	12438.1	13383.7	14283.2	14657.6	14760.7
57.5°	16487.8	16323.6	16068.6	15207.1	14250.6	13640.1	14071.5	14996.8	15858.3	16335.8	16319.6
60°	18099.5	17991.0	17844.5	17158.0	16424.0	15726.7	16059.1	16841.9	17579.9	17868.9	17881.1
62.5°	19860.5	19769.6	19638.0	19262.2	18857.9	18598.8	18297.6	18659.8	19236.4	19552.5	19655.7
65°	21588.9	21556.4	21632.3	21575.4	21746.3	21708.3	20986.6	20758.6	20768.1	20678.6	20632.5
67.5°	21487.2	21475.0	21922.7	22815.4	24519.4	25002.3	23150.5	21088.3	20159.0	19922.9	19889.0
70°	19920.2	20051.8	20880.7	22628.1	25737.7	26293.9	23758.3	20015.2	18826.7	18235.2	18088.7
72.5°	16905.7	17163.4	18434.6	21008.3	24725.6	24853.1	22230.6	18400.7	16650.6	15945.1	15840.7
75°	13044.5	13077.1	14378.1	17649.1	22066.5	22226.6	19830.7	15433.6	13712.0	12834.2	12807.1
77.5°	7944.7	8407.4	10305.4	13233.1	17541.9	18374.9	16585.5	12292.9	10245.7	9468.3	9034.2
80°	3897.8	4109.4	5476.9	8366.7	12538.5	13934.5	12307.8	8502.3	6319.4	5333.1	5224.6
82.5°	1774.5	1887.1	2591.3	4374.0	7566.2	9296.0	7596.1	4869.1	3374.1	2638.8	2614.3
85°	689.2	685.1	1048.7	1835.6	3622.3	5147.3	3846.2	2322.6	1543.9	1147.8	1082.6
87.5°	200.8	214.4	308.0	602.4	1073.1	1446.2	1185.7	803.2	474.8	305.3	280.8
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)