

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: P721845

Luminaire Tested: **CST-CA8-400-727-U-T5N**

Issue Date: 10/25/2023

Test Information

Test Method: LM-79-08
Report Number: P721845
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-CA8-400-727-U-T5N
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 2700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54816 lumens
Efficiency: N/A
Efficacy: 136.8 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

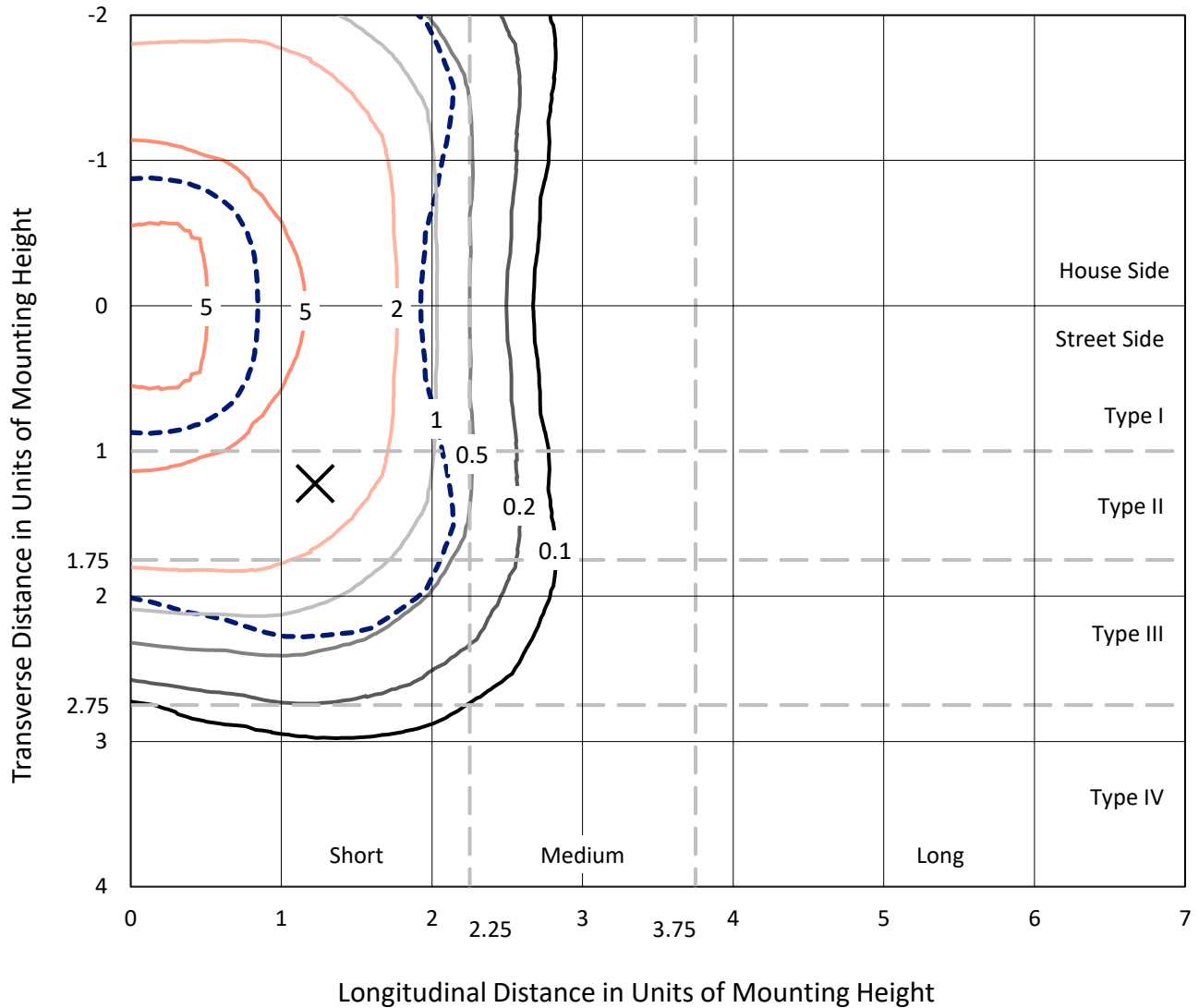
Input Watts (W): 400.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

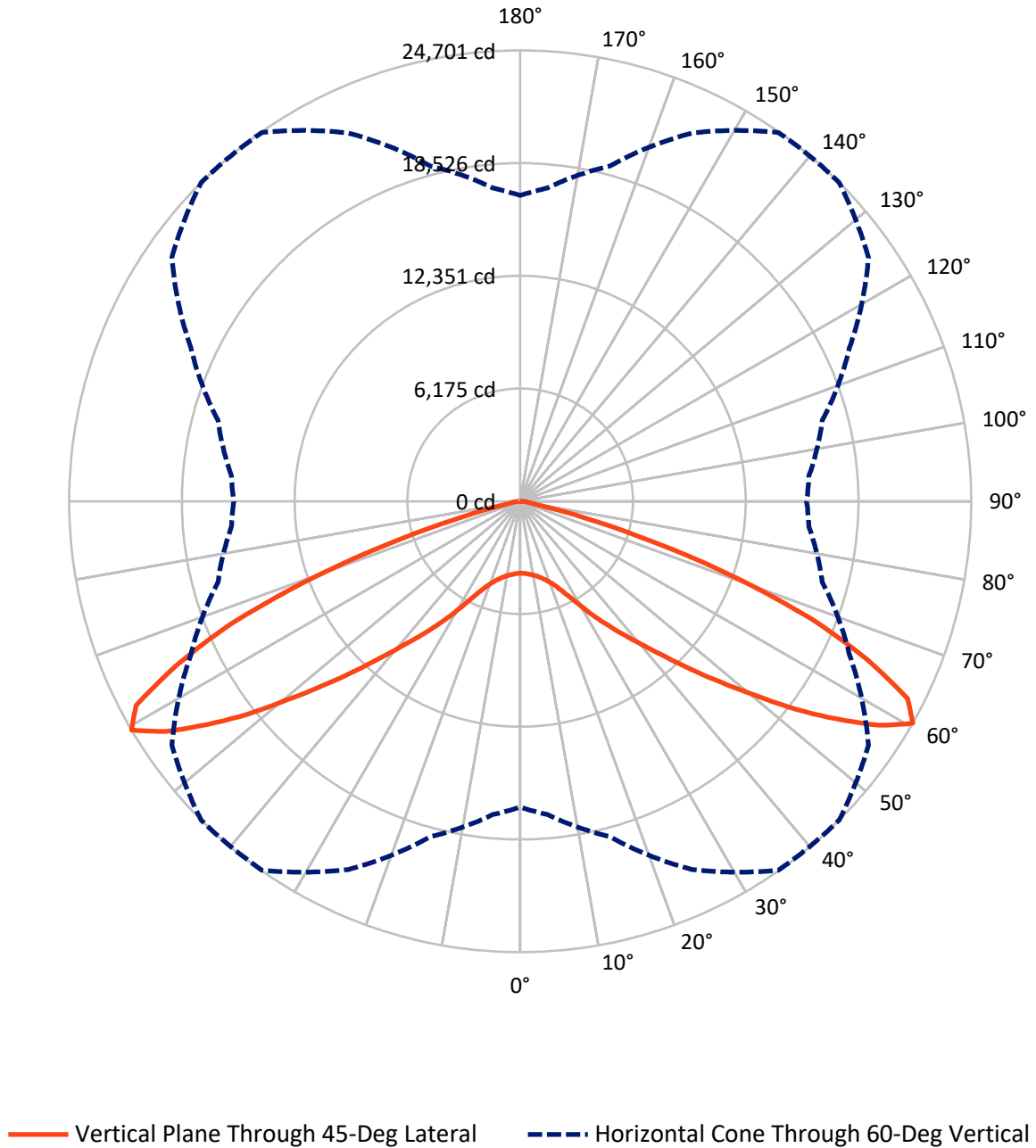
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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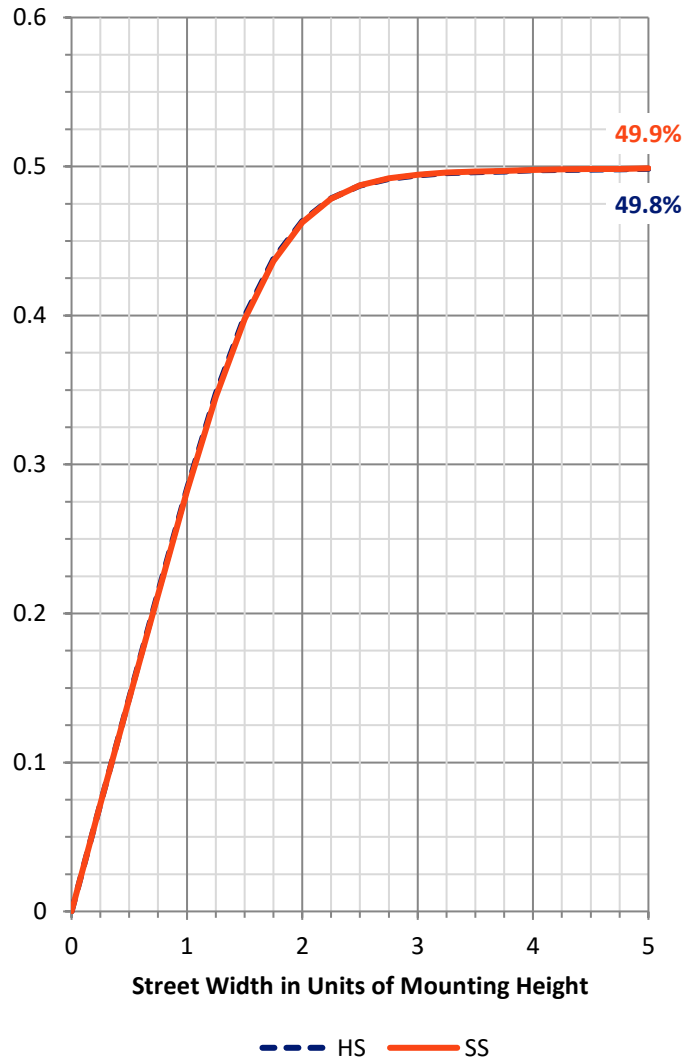
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	27408.0	0.0	27408.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	27408.0	0.0	27408.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	54816.0	0.0	54816.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	385.2	0.7
10°-20°	1255.7	2.3
20°-30°	2667.1	4.9
30°-40°	5655.1	10.3
40°-50°	10754.4	19.6
50°-60°	17061.3	31.1
60°-70°	14421.3	26.3
70°-80°	2372.5	4.3
80°-90°	243.3	0.4
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°	54816.0	100.0
0°-180°	54816.0	100.0

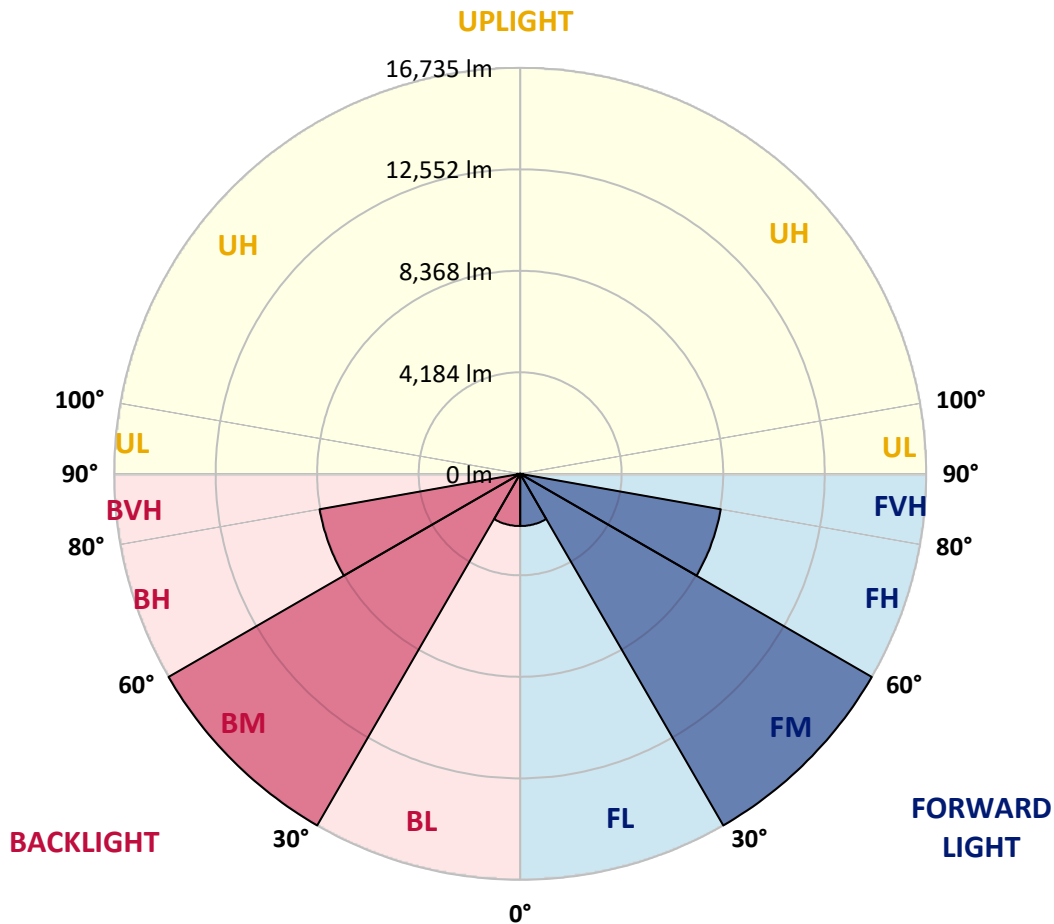


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2154.0	3.9			
FM (30°-60°)	16735.4	30.5			
FH (60°-80°)	8396.9	15.3			G4/12000
FVH (80°-90°)	121.6	0.2			G2/225
BL (0°-30°)	2154.0	3.9	B3/2500		
BM (30°-60°)	16735.4	30.5	B5		
BH (60°-80°)	8396.9	15.3	B5		G4/12000
BVH (80°-90°)	121.6	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3935.6	3935.6	3935.6	3935.6	3935.6	3935.6	3935.6	3935.6	3935.6	3935.6	3935.6
2.5°	3964.0	3954.2	3951.1	3947.0	3949.0	3950.1	3955.7	3956.3	3956.3	3961.4	3970.2
5°	4008.4	3995.5	3990.9	3985.7	3988.3	3990.9	3996.0	3999.1	3998.6	4001.7	4009.5
7.5°	4056.5	4051.8	4046.2	4043.1	4043.1	4050.3	4046.7	4052.3	4051.8	4055.4	4060.1
10°	4127.8	4117.4	4116.9	4111.2	4113.8	4120.0	4121.1	4120.0	4121.1	4123.1	4134.0
12.5°	4218.2	4215.6	4217.2	4212.5	4211.0	4217.7	4219.2	4225.9	4228.0	4234.2	4240.9
15°	4363.9	4347.3	4345.3	4344.8	4347.9	4358.2	4361.3	4373.7	4379.4	4388.2	4403.1
17.5°	4528.7	4534.4	4524.0	4523.0	4522.5	4530.7	4539.0	4566.4	4575.2	4595.3	4608.2
20°	4791.6	4781.3	4775.1	4750.3	4744.1	4758.6	4788.5	4824.7	4841.7	4873.8	4898.1
22.5°	5142.9	5125.4	5083.0	5053.6	5041.2	5066.0	5098.5	5156.4	5225.1	5264.9	5275.7
25°	5650.8	5581.5	5528.8	5476.7	5458.1	5494.7	5547.4	5639.4	5725.7	5805.2	5841.9
27.5°	6269.2	6225.2	6120.4	6038.2	6005.7	6036.7	6146.2	6275.9	6434.0	6516.6	6529.0
30°	7054.4	7031.7	6897.9	6743.9	6686.1	6739.8	6869.0	7045.6	7265.7	7435.7	7465.6
32.5°	8026.7	7911.5	7725.5	7549.3	7487.3	7553.0	7682.6	7936.3	8232.8	8420.9	8484.9
35°	9141.6	9011.4	8731.9	8461.2	8381.1	8389.4	8597.0	8954.5	9360.1	9622.5	9694.3
37.5°	10371.1	10238.3	9908.7	9488.7	9303.3	9317.2	9588.9	10053.9	10609.8	10896.0	10991.0
40°	11683.3	11545.9	11206.0	10732.7	10427.9	10365.9	10729.1	11295.3	11860.0	12205.1	12241.8
42.5°	12966.1	12803.3	12530.0	12056.8	11778.9	11612.5	12051.1	12564.1	13133.5	13444.5	13468.7
45°	14111.9	14080.4	13860.9	13517.8	13289.0	13141.7	13454.8	13964.2	14362.0	14558.8	14630.6
47.5°	15219.6	15199.9	15129.7	15009.8	15066.6	14821.8	14972.1	15203.0	15421.6	15566.2	15622.0
50°	16190.3	16210.9	16348.9	16553.0	16964.2	16716.2	16669.2	16420.7	16426.9	16438.3	16496.1
52.5°	16992.1	17101.6	17448.8	18064.6	18952.6	18947.0	18235.6	17579.5	17282.9	17151.2	17163.1
55°	17691.1	17878.6	18452.0	19723.4	20994.3	21057.9	20090.2	18637.0	18081.1	17800.1	17836.7
57.5°	18077.0	18362.7	19333.4	21263.5	23074.7	23151.2	22073.5	19808.2	18535.2	17823.8	17854.3
60°	16752.4	17233.3	19022.9	22256.9	24665.9	24701.0	23286.0	19900.1	17131.0	15872.0	15687.6
62.5°	13709.0	14375.4	16900.1	21487.2	23928.7	23819.7	22527.1	18177.2	14072.7	12545.5	12390.6
65°	10297.7	10924.4	13567.9	18398.3	20995.9	20852.2	19535.9	14366.1	10317.4	8696.2	8505.6
67.5°	5573.3	6519.7	8993.3	14054.1	16737.4	17224.6	15400.9	10013.1	6004.1	4353.0	4185.6
70°	1924.9	2487.5	4585.5	8822.3	12072.3	12561.0	10502.3	5370.2	2627.5	1642.8	1474.9
72.5°	683.5	787.8	1724.0	4260.5	6873.1	7615.5	5666.8	2160.0	837.4	610.1	597.7
75°	482.5	498.0	612.7	1389.2	2975.7	3644.7	2234.4	717.1	522.3	488.2	485.1
77.5°	430.9	439.6	496.5	565.7	909.2	1163.9	687.6	520.2	453.6	434.5	427.8
80°	409.7	416.4	432.9	463.9	515.6	536.2	463.9	444.8	412.8	404.5	401.9
82.5°	358.0	356.5	361.1	374.0	397.3	402.4	372.5	348.7	349.2	339.4	334.8
85°	242.3	256.8	245.9	232.5	288.3	289.8	270.2	202.5	229.9	225.2	206.1
87.5°	73.4	82.7	65.6	45.5	62.5	48.6	43.9	45.5	43.4	37.7	34.1
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)