

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: P510872

Luminaire Tested: **CST-CA8-480-760-U-T5**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510872
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-CA8-480-760-U-T5
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 73076 lumens
Efficiency: N/A
Efficacy: 152.0 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

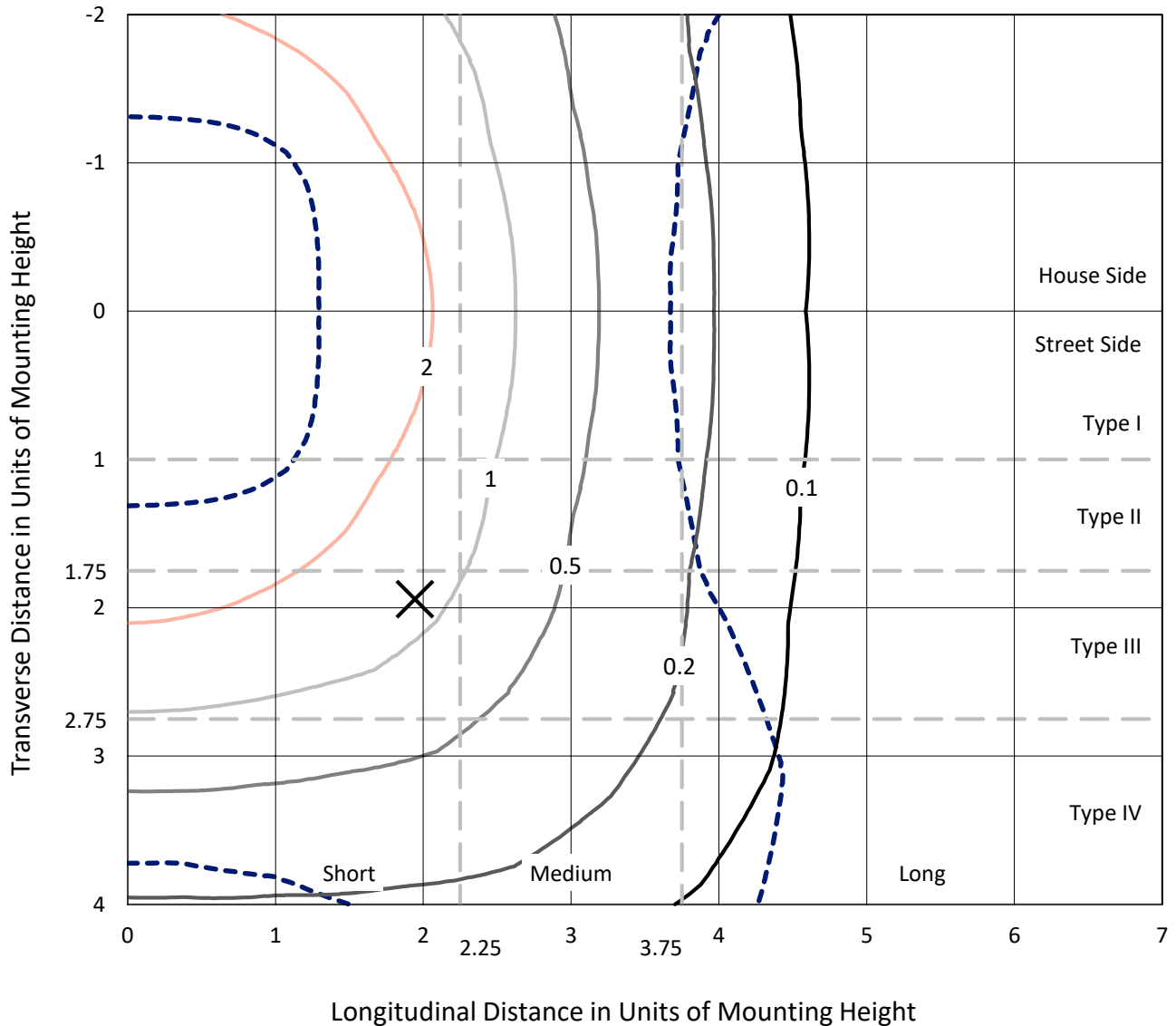
Input Watts (W): 480.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

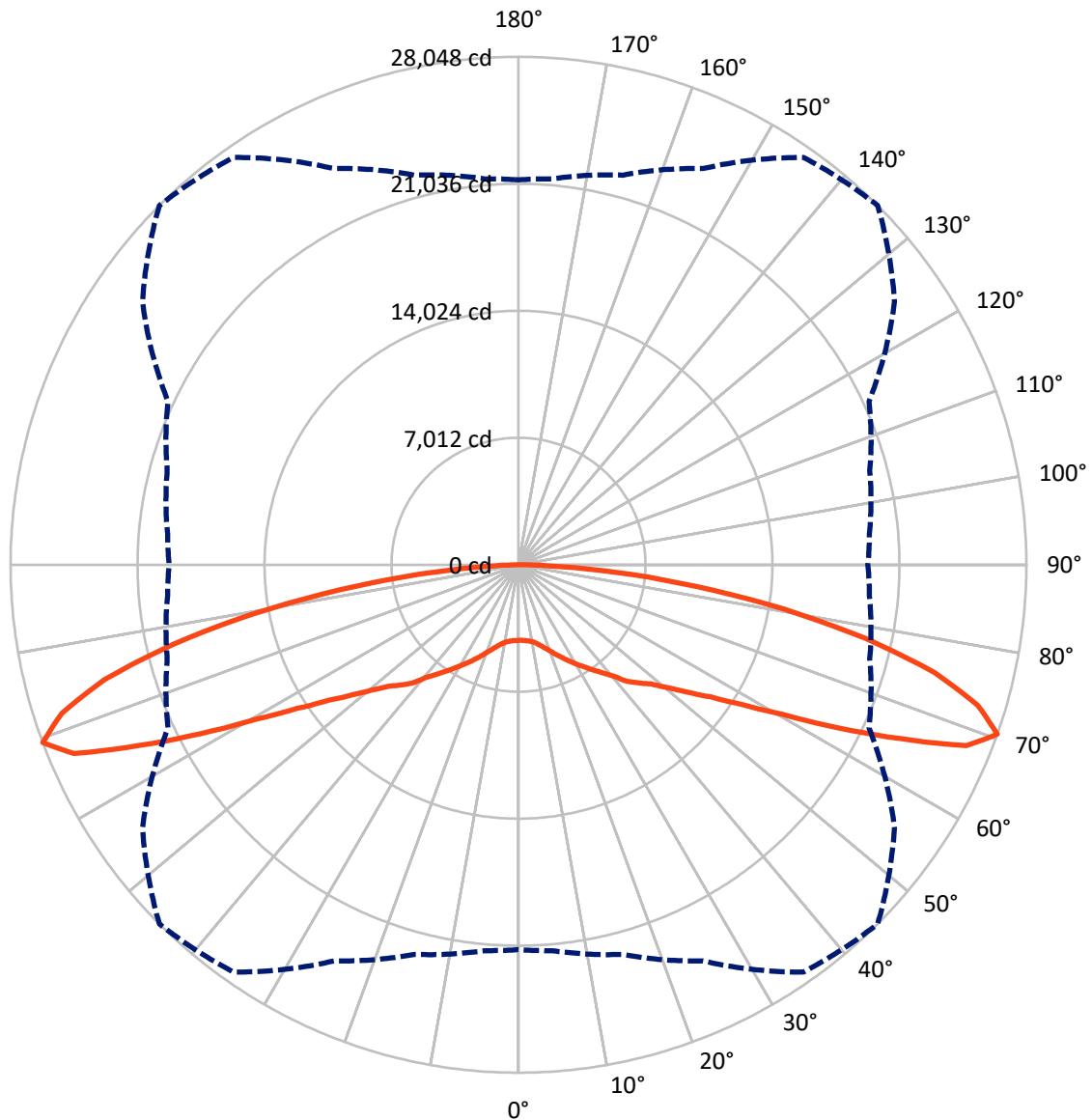
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.7 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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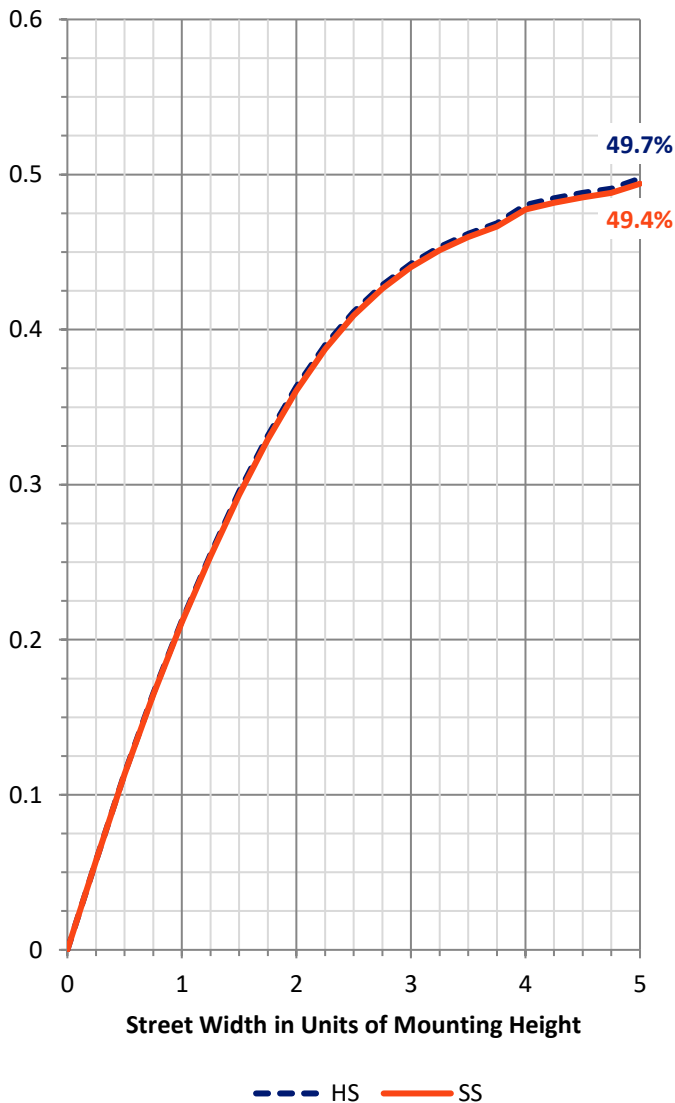
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	36538.0	0.0	36538.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	36538.0	0.0	36538.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	73076.0	0.0	73076.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	406.0	0.6
10°-20°	1322.1	1.8
20°-30°	2617.3	3.6
30°-40°	4527.7	6.2
40°-50°	7533.4	10.3
50°-60°	13139.4	18.0
60°-70°	21751.7	29.8
70°-80°	18229.7	24.9
80°-90°	3548.7	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°	73076.0	100.0
0°-180°	73076.0	100.0

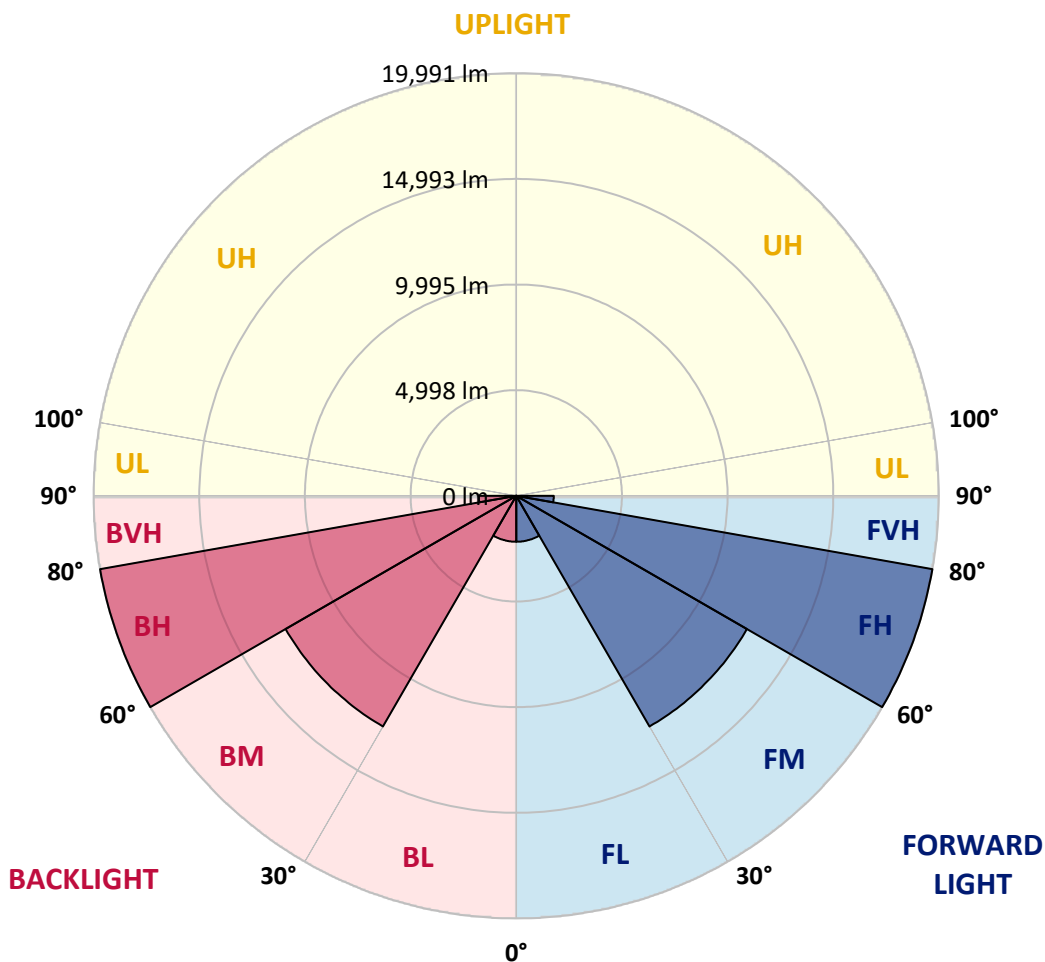


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2172.7	3.0			
FM (30°-60°)	12600.3	17.2			
FH (60°-80°)	19990.7	27.4			G5
FVH (80°-90°)	1774.4	2.4			G5
BL (0°-30°)	2172.7	3.0	B3/2500		
BM (30°-60°)	12600.3	17.2	B5		
BH (60°-80°)	19990.7	27.4	B5		G5
BVH (80°-90°)	1774.4	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°	4176.5	4176.5	4176.5	4176.5	4176.5	4176.5	4176.5	4176.5	4176.5	4176.5	4176.5
2.5°	4202.6	4189.6	4185.2	4180.9	4183.8	4182.3	4189.6	4192.4	4195.3	4208.4	4201.1
5°	4228.6	4218.5	4217.0	4211.3	4209.8	4209.8	4219.9	4221.4	4222.8	4231.5	4222.8
7.5°	4276.4	4266.3	4263.4	4260.5	4259.0	4253.2	4260.5	4257.6	4260.5	4264.8	4254.7
10°	4351.6	4340.1	4337.2	4329.9	4334.3	4325.6	4331.4	4324.1	4311.1	4314.0	4299.5
12.5°	4454.4	4444.3	4448.6	4447.1	4464.5	4460.2	4448.6	4434.1	4412.4	4397.9	4382.0
15°	4606.3	4590.4	4602.0	4613.6	4630.9	4638.2	4629.5	4590.4	4558.6	4535.4	4522.4
17.5°	4791.6	4765.5	4788.7	4811.8	4849.5	4856.7	4824.9	4777.1	4742.4	4732.2	4710.5
20°	5007.2	5002.9	5004.3	5041.9	5099.8	5109.9	5068.0	5011.5	4976.8	4978.3	4953.7
22.5°	5267.7	5244.5	5251.8	5289.4	5371.9	5399.4	5329.9	5267.7	5246.0	5251.8	5248.9
25°	5565.8	5544.1	5534.0	5551.3	5658.4	5706.2	5639.6	5567.3	5557.1	5570.1	5549.9
27.5°	5892.9	5872.6	5861.0	5869.7	5953.6	6043.4	5969.6	5908.8	5907.3	5926.2	5914.6
30°	6264.8	6234.4	6221.4	6231.5	6289.4	6376.2	6316.9	6280.7	6311.1	6324.1	6319.8
32.5°	6641.1	6626.6	6622.2	6619.3	6690.3	6739.5	6710.5	6717.8	6742.4	6801.7	6782.9
35°	7069.4	7027.4	7039.0	7047.7	7140.3	7144.7	7147.6	7160.6	7225.7	7309.6	7260.4
37.5°	7515.1	7505.0	7512.2	7487.6	7555.7	7583.2	7623.7	7667.1	7769.8	7866.8	7846.5
40°	8066.5	8047.7	8054.9	8026.0	8059.3	8081.0	8163.5	8257.5	8389.2	8493.4	8445.7
42.5°	8797.3	8749.6	8749.6	8758.3	8827.7	8804.6	8981.1	9007.2	9170.7	9259.0	9231.5
45°	9656.9	9639.6	9548.4	9395.0	9308.2	9306.7	9448.6	9659.8	9930.5	10114.3	10112.8
47.5°	10749.6	10696.0	10477.5	10108.5	9888.5	9835.0	9984.0	10395.0	10892.8	11179.4	11175.0
50°	12182.3	12114.2	11782.8	11209.8	10781.4	10649.7	10888.5	11421.0	12091.1	12473.1	12505.0
52.5°	13785.7	13791.5	13416.7	12549.8	11916.0	11678.6	11931.9	12693.1	13528.1	14052.0	14114.2
55°	15648.2	15603.4	15248.8	14266.2	13393.5	12884.1	13267.6	14276.3	15235.8	15635.2	15745.2
57.5°	17587.4	17412.3	17140.3	16221.3	15201.0	14549.8	15010.0	15997.0	16915.9	17425.3	17408.0
60°	19306.7	19190.9	19034.6	18302.3	17519.4	16775.6	17130.1	17965.1	18752.4	19060.6	19073.7
62.5°	21185.1	21088.1	20947.8	20546.9	20115.6	19839.2	19517.9	19904.3	20519.4	20856.6	20966.6
65°	23028.8	22994.0	23075.1	23014.3	23196.6	23156.1	22386.2	22143.1	22153.2	22057.7	22008.5
67.5°	22920.2	22907.2	23384.8	24337.0	26154.7	26669.9	24694.5	22494.8	21503.5	21251.7	21215.5
70°	21248.8	21389.1	22273.4	24137.3	27454.2	28047.6	25342.8	21350.1	20082.3	19451.4	19295.1
72.5°	18033.2	18308.1	19664.1	22409.4	26374.6	26510.7	23713.3	19627.9	17761.1	17008.6	16897.1
75°	13914.5	13949.2	15337.1	18826.2	23538.2	23708.9	21153.2	16463.0	14626.5	13690.2	13661.3
77.5°	8474.6	8968.1	10992.7	14115.7	18711.9	19600.4	17691.6	13112.8	10929.0	10099.8	9636.7
80°	4157.7	4383.5	5842.2	8924.7	13374.7	14863.9	13128.7	9069.4	6740.9	5688.8	5573.0
82.5°	1892.9	2013.0	2764.1	4665.7	8070.9	9916.0	8102.7	5193.9	3599.1	2814.7	2788.7
85°	735.2	730.8	1118.7	1958.0	3863.9	5490.6	4102.7	2477.6	1646.9	1224.3	1154.8
87.5°	214.2	228.7	328.5	642.5	1144.7	1542.7	1264.8	856.7	506.5	325.6	299.6
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)