

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: P510602

Luminaire Tested: **CST-CA10-760-730-U-T5**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510602
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-CA10-760-730-U-T5
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 107908 lumens
Efficiency: N/A
Efficacy: 141.6 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

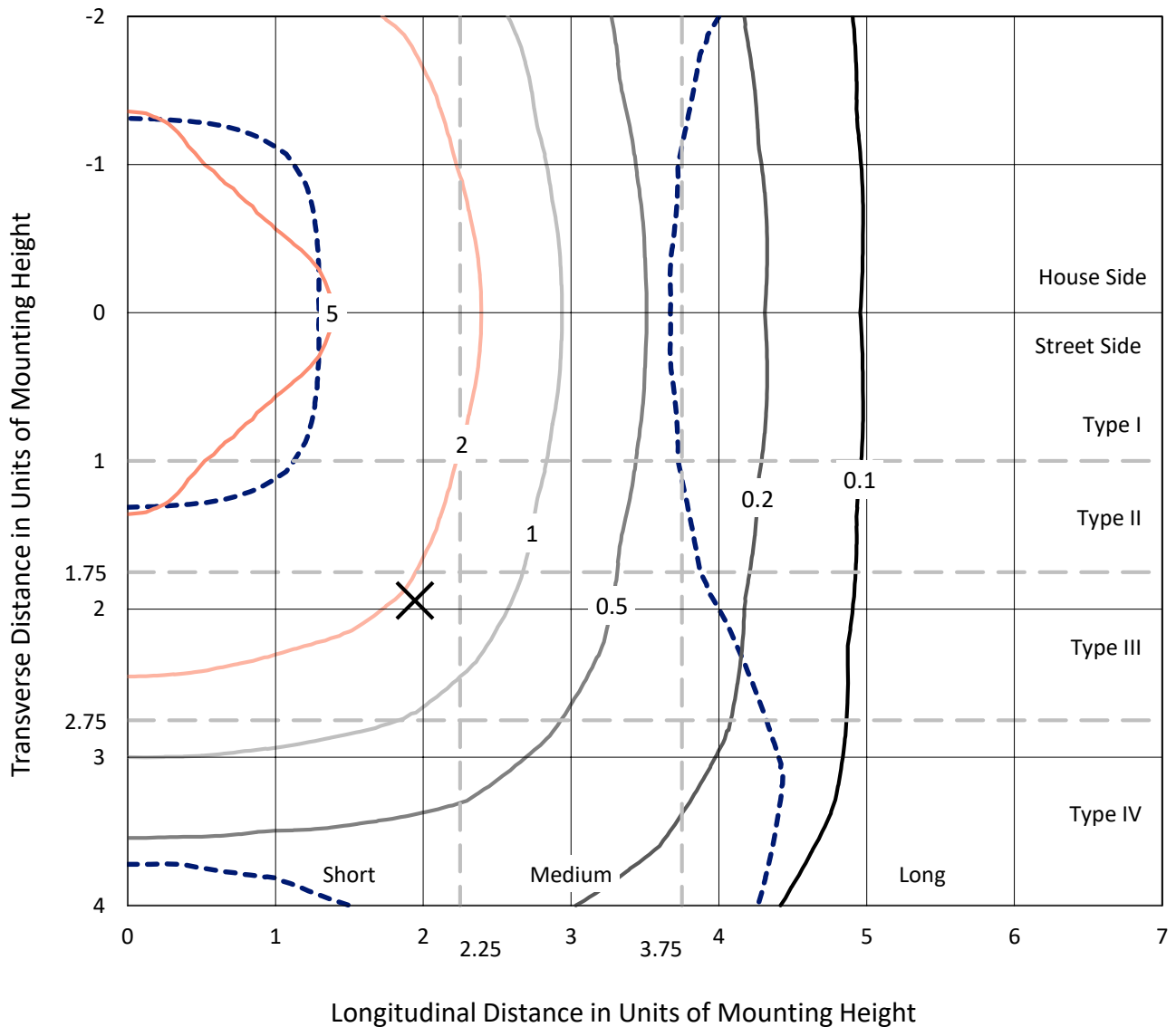
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

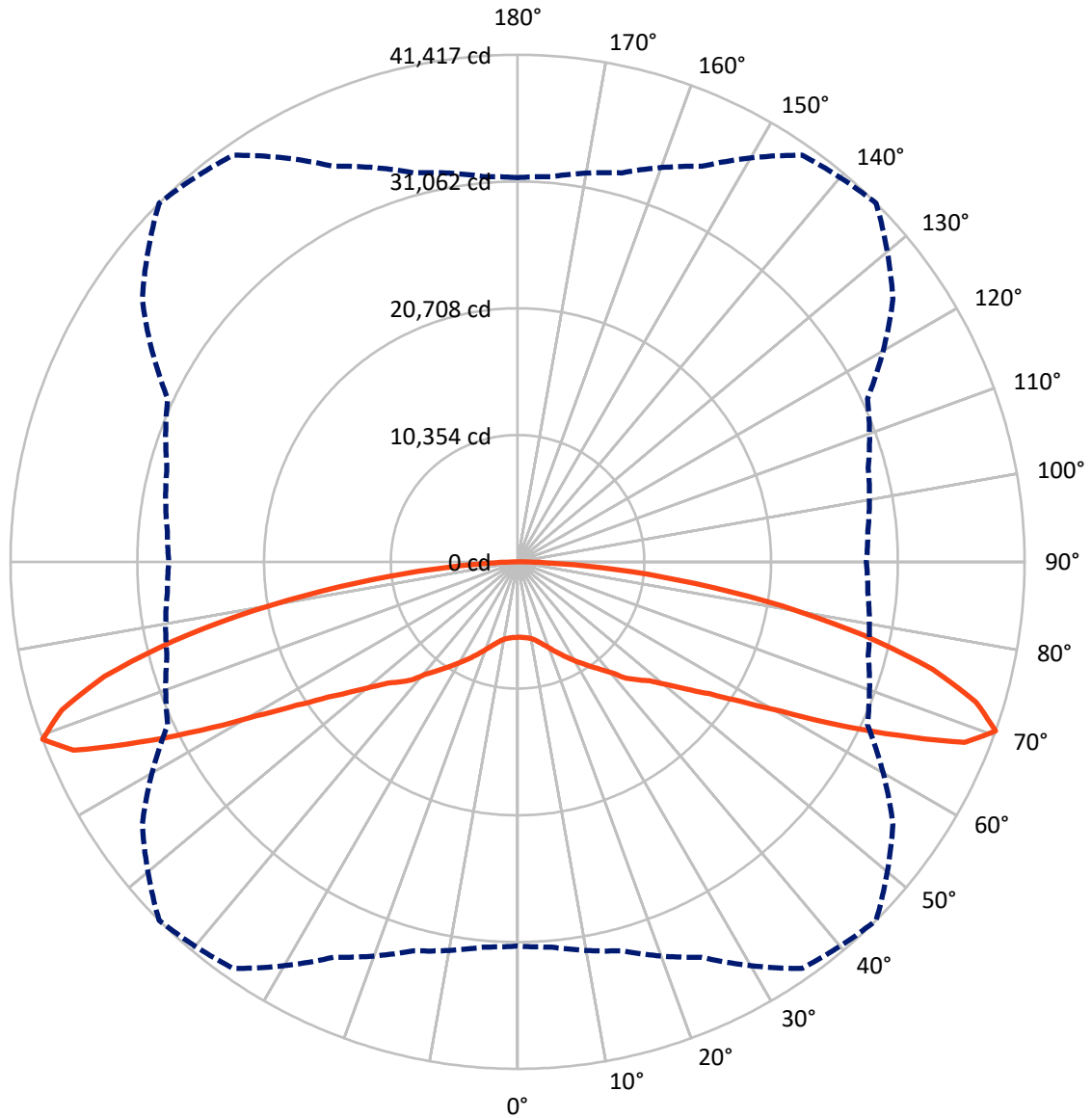
✕ Max cd
 - - - 1/2 Max cd



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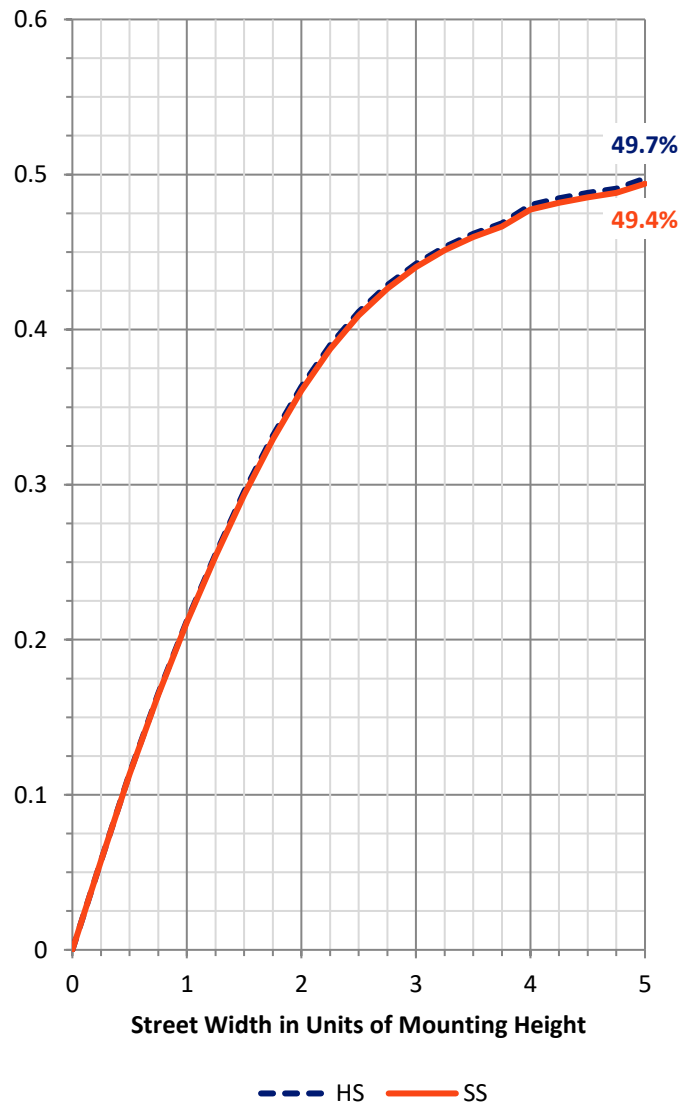
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	53954.0	0.0	53954.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	53954.0	0.0	53954.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	107908.0	0.0	107908.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	599.5	0.6
10°-20°	1952.3	1.8
20°-30°	3864.8	3.6
30°-40°	6685.9	6.2
40°-50°	11124.2	10.3
50°-60°	19402.4	18.0
60°-70°	32119.8	29.8
70°-80°	26918.9	24.9
80°-90°	5240.2	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°	107908.0	100.0
0°-180°	107908.0	100.0

Coefficient of Utilization

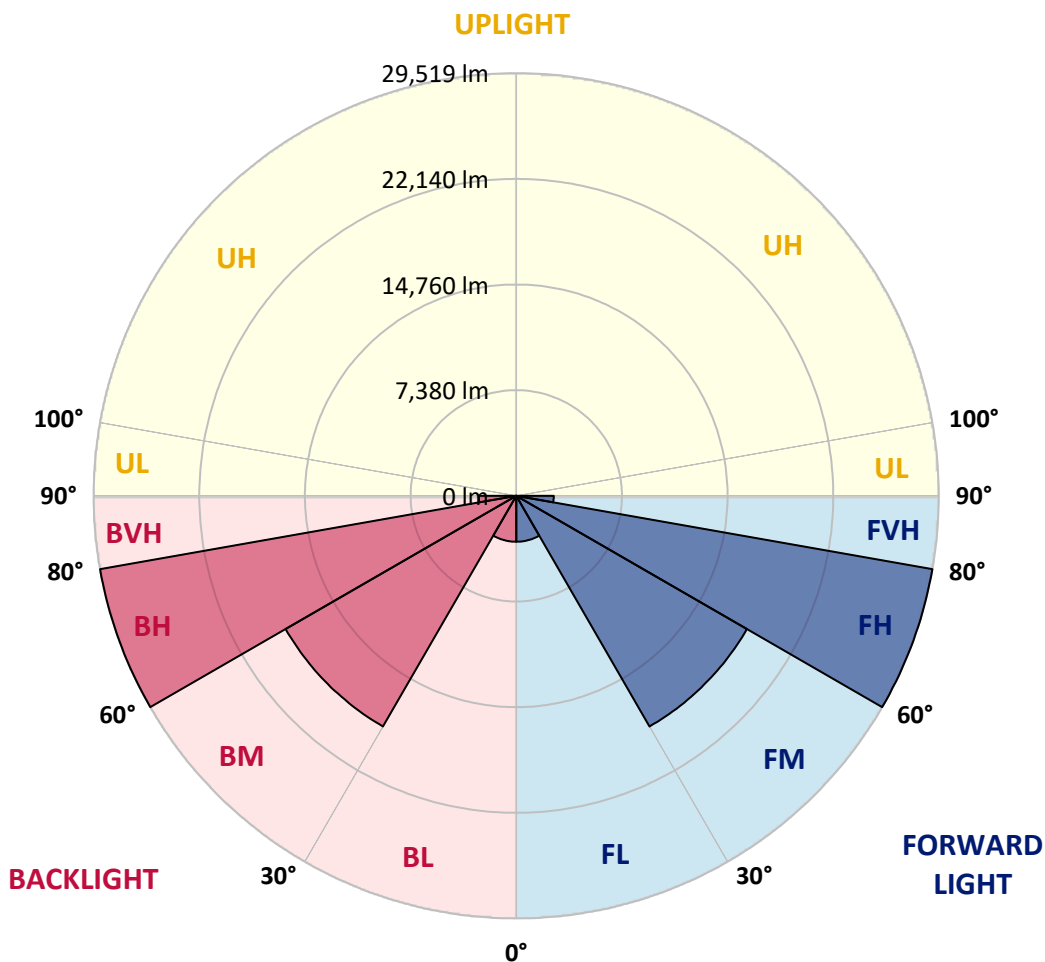


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3208.3	3.0			
FM (30°-60°)	18606.2	17.2			
FH (60°-80°)	29519.3	27.4			G5
FVH (80°-90°)	2620.1	2.4			G5
BL (0°-30°)	3208.3	3.0	B4/5000		
BM (30°-60°)	18606.2	17.2	B5		
BH (60°-80°)	29519.3	27.4	B5		G5
BVH (80°-90°)	2620.1	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°	6167.3	6167.3	6167.3	6167.3	6167.3	6167.3	6167.3	6167.3	6167.3	6167.3	6167.3
2.5°	6205.8	6186.5	6180.1	6173.7	6178.0	6175.8	6186.5	6190.8	6195.1	6214.3	6203.6
5°	6244.2	6229.3	6227.1	6218.6	6216.4	6216.4	6231.4	6233.5	6235.7	6248.5	6235.7
7.5°	6314.7	6299.8	6295.5	6291.2	6289.1	6280.5	6291.2	6287.0	6291.2	6297.6	6282.7
10°	6425.9	6408.8	6404.5	6393.8	6400.2	6387.4	6395.9	6385.3	6366.0	6370.3	6348.9
12.5°	6577.6	6562.6	6569.0	6566.9	6592.5	6586.1	6569.0	6547.7	6515.6	6494.2	6470.7
15°	6802.0	6778.5	6795.6	6812.6	6838.3	6849.0	6836.2	6778.5	6731.4	6697.3	6678.0
17.5°	7075.5	7037.0	7071.2	7105.4	7161.0	7171.7	7124.6	7054.1	7002.8	6987.9	6955.8
20°	7393.9	7387.5	7389.6	7445.2	7530.7	7545.6	7483.7	7400.3	7349.0	7351.2	7314.8
22.5°	7778.6	7744.4	7755.1	7810.6	7932.4	7973.0	7870.4	7778.6	7746.5	7755.1	7750.8
25°	8218.8	8186.7	8171.8	8197.4	8355.5	8426.1	8327.8	8220.9	8206.0	8225.2	8195.3
27.5°	8701.7	8671.8	8654.7	8667.5	8791.5	8924.0	8815.0	8725.2	8723.1	8750.9	8733.8
30°	9250.9	9206.1	9186.8	9201.8	9287.3	9415.5	9327.9	9274.4	9319.3	9338.5	9332.1
32.5°	9806.5	9785.2	9778.8	9774.5	9879.2	9951.9	9909.1	9919.8	9956.1	10043.7	10016.0
35°	10439.1	10377.1	10394.2	10407.0	10543.8	10550.2	10554.5	10573.7	10669.9	10793.8	10721.2
37.5°	11097.3	11082.3	11093.0	11056.7	11157.1	11197.7	11257.5	11321.6	11473.4	11616.5	11586.6
40°	11911.5	11883.7	11894.4	11851.6	11900.8	11932.8	12054.6	12193.5	12388.0	12541.9	12471.3
42.5°	12990.6	12920.1	12920.1	12932.9	13035.5	13001.3	13262.0	13300.5	13542.0	13672.3	13631.7
45°	14260.0	14234.3	14099.7	13873.2	13745.0	13742.8	13952.3	14264.3	14663.9	14935.3	14933.1
47.5°	15873.4	15794.3	15471.6	14926.7	14601.9	14522.8	14742.9	15349.8	16084.9	16508.1	16501.7
50°	17989.0	17888.5	17399.2	16552.9	15920.4	15725.9	16078.5	16864.9	17854.4	18418.5	18465.5
52.5°	20356.7	20365.3	19811.8	18531.8	17595.8	17245.3	17619.3	18743.3	19976.4	20749.9	20841.8
55°	23107.0	23040.8	22517.2	21066.2	19777.6	19025.4	19591.7	21081.2	22498.0	23087.8	23250.2
57.5°	25970.6	25712.0	25310.2	23953.3	22446.7	21485.1	22164.6	23622.0	24979.0	25731.2	25705.6
60°	28509.3	28338.3	28107.5	27026.2	25870.1	24771.7	25295.3	26528.3	27690.8	28146.0	28165.2
62.5°	31283.1	31139.9	30932.6	30340.6	29703.8	29295.7	28821.3	29391.8	30300.0	30798.0	30960.4
65°	34005.5	33954.3	34073.9	33984.2	34253.4	34193.6	33056.7	32697.7	32712.7	32571.6	32499.0
67.5°	33845.3	33826.0	34531.2	35937.4	38621.4	39382.2	36465.2	33217.0	31753.2	31381.4	31327.9
70°	31377.1	31584.4	32890.1	35642.5	40540.4	41416.5	37422.6	31526.7	29654.7	28723.0	28492.2
72.5°	26628.7	27034.8	29037.1	33090.9	38946.2	39147.1	35016.3	28983.7	26227.0	25115.8	24951.2
75°	20546.9	20598.2	22647.6	27799.8	34757.8	35009.9	31236.0	24310.1	21598.3	20215.7	20173.0
77.5°	12514.1	13242.8	16232.4	20844.0	27631.0	28943.1	26124.4	19363.1	16138.4	14913.9	14230.1
80°	6139.5	6472.9	8626.9	13178.7	19749.8	21948.8	19386.6	13392.4	9954.0	8400.4	8229.5
82.5°	2795.2	2972.5	4081.6	6889.6	11917.9	14642.5	11964.9	7669.6	5314.6	4156.4	4117.9
85°	1085.6	1079.2	1651.9	2891.3	5705.7	8107.7	6058.3	3658.5	2431.9	1807.9	1705.3
87.5°	316.3	337.6	485.1	948.8	1690.3	2278.0	1867.7	1265.1	747.9	480.8	442.4
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)