

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: P510572

Luminaire Tested: **CST-CA10-630-760-U-T5**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510572
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-CA10-630-760-U-T5
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 94878 lumens
Efficiency: N/A
Efficacy: 150.3 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

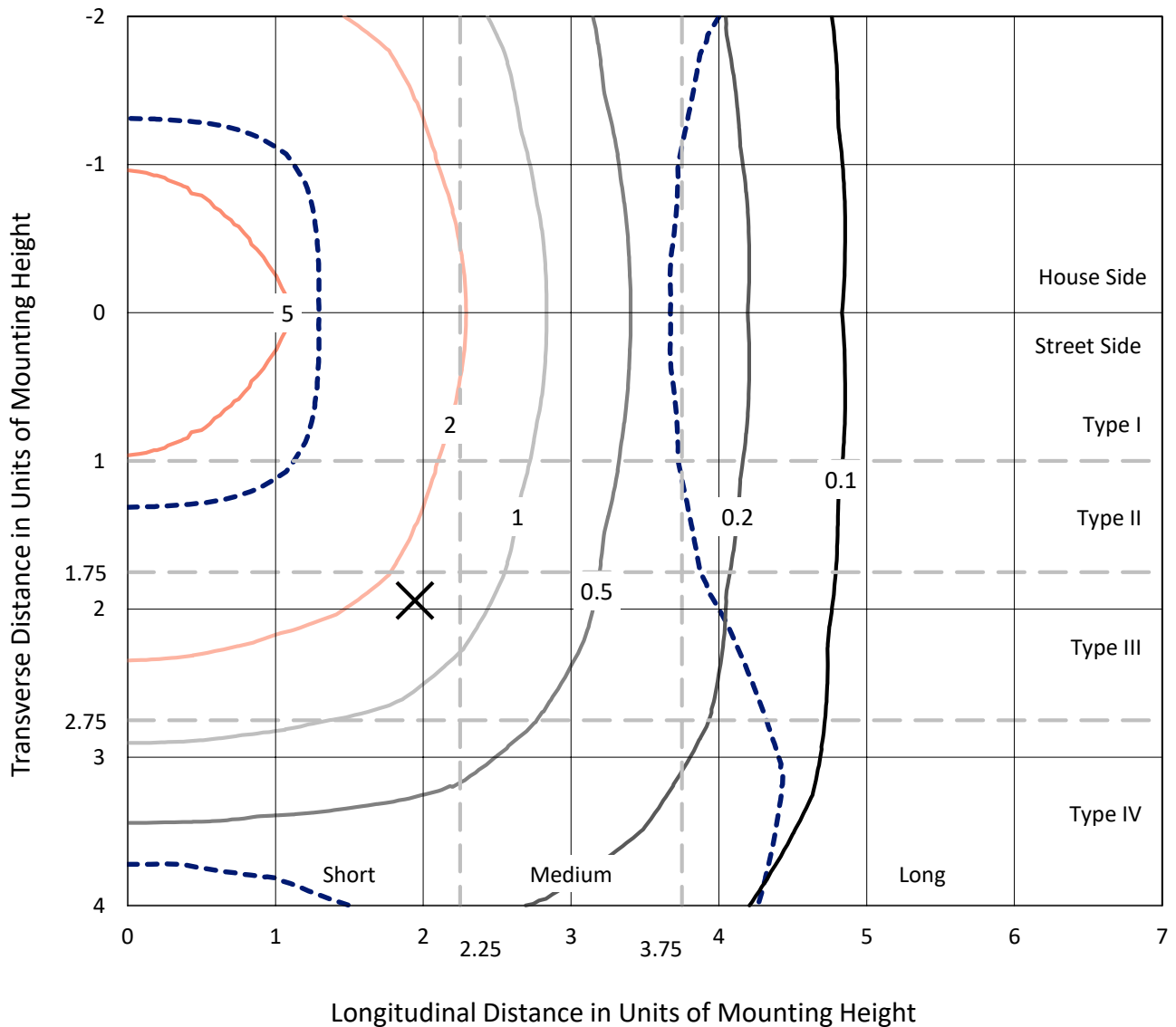
Input Watts (W): 631.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

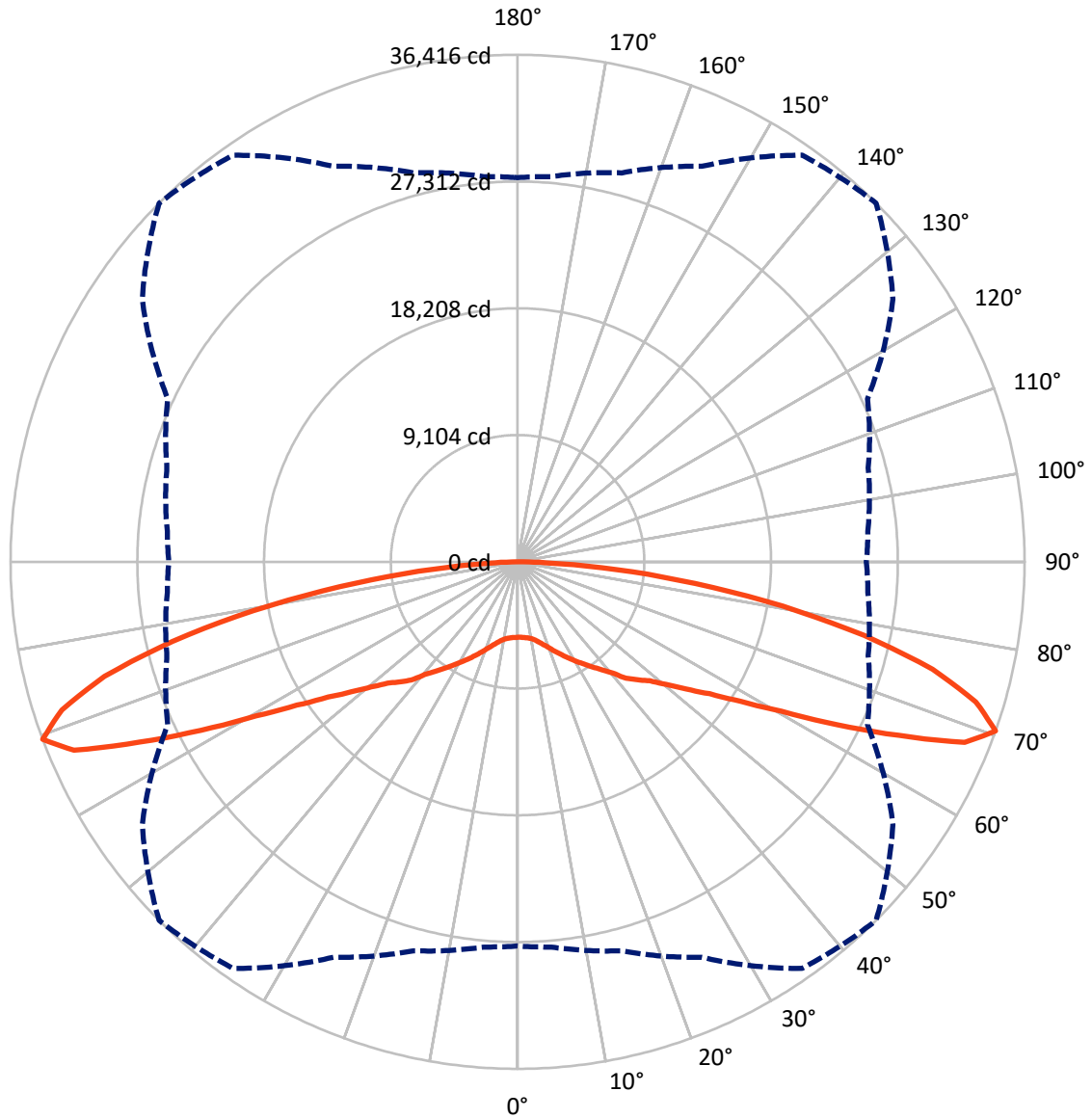
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.1 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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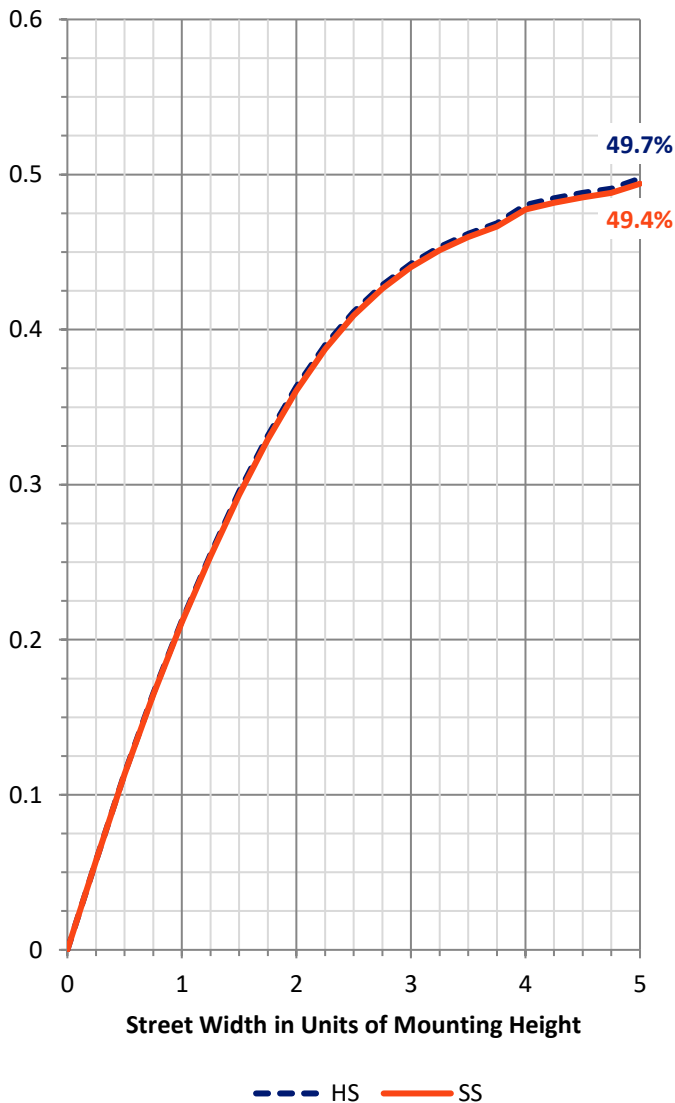
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	47439.0	0.0	47439.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	47439.0	0.0	47439.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	94878.0	0.0	94878.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	527.1	0.6
10°-20°	1716.6	1.8
20°-30°	3398.1	3.6
30°-40°	5878.5	6.2
40°-50°	9780.9	10.3
50°-60°	17059.6	18.0
60°-70°	28241.3	29.8
70°-80°	23668.4	24.9
80°-90°	4607.5	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°	94878.0	100.0
0°-180°	94878.0	100.0

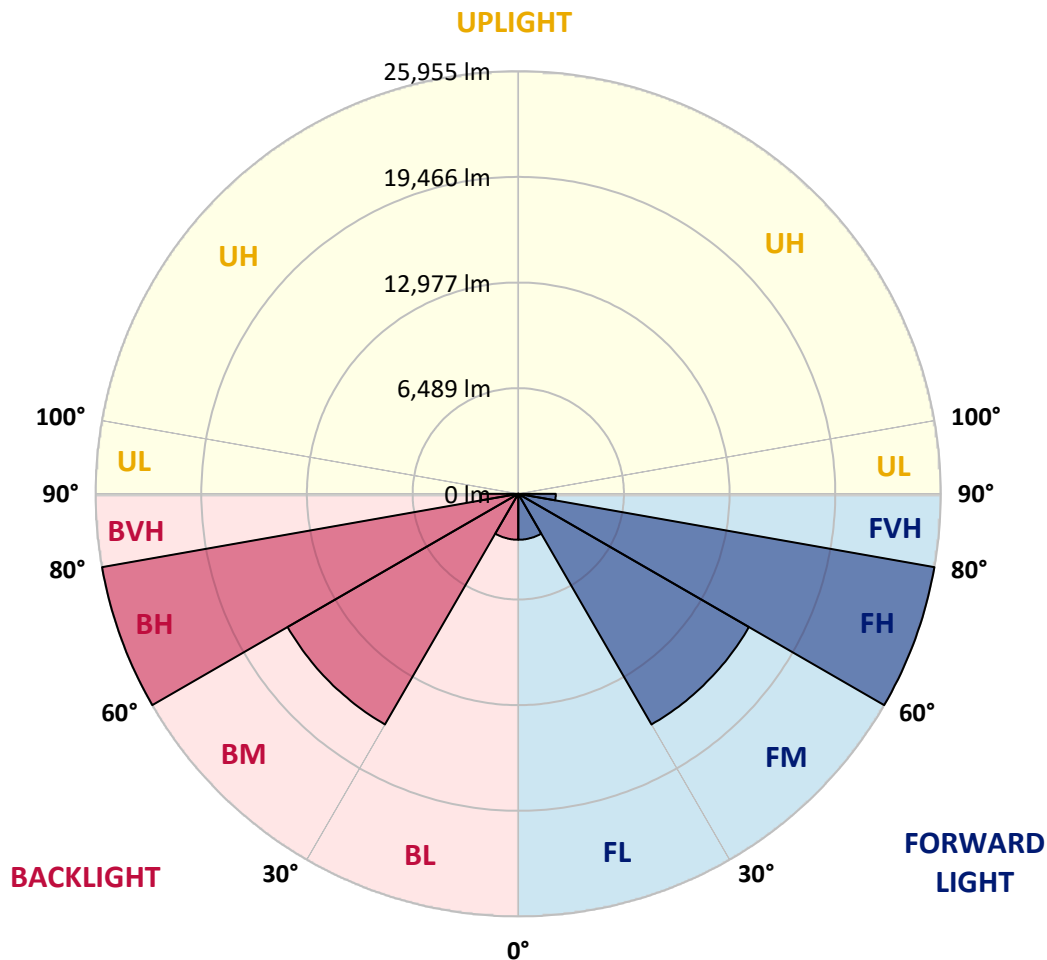


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2820.9	3.0			
FM (30°-60°)	16359.5	17.2			
FH (60°-80°)	25954.8	27.4			G5
FVH (80°-90°)	2303.7	2.4			G5
BL (0°-30°)	2820.9	3.0	B4/5000		
BM (30°-60°)	16359.5	17.2	B5		
BH (60°-80°)	25954.8	27.4	B5		G5
BVH (80°-90°)	2303.7	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°	5422.6	5422.6	5422.6	5422.6	5422.6	5422.6	5422.6	5422.6	5422.6	5422.6	5422.6
2.5°	5456.4	5439.5	5433.9	5428.2	5432.0	5430.1	5439.5	5443.2	5447.0	5463.9	5454.5
5°	5490.2	5477.1	5475.2	5467.7	5465.8	5465.8	5478.9	5480.8	5482.7	5494.0	5482.7
7.5°	5552.2	5539.1	5535.3	5531.6	5529.7	5522.2	5531.6	5527.8	5531.6	5537.2	5524.0
10°	5649.9	5634.9	5631.1	5621.7	5627.4	5616.1	5623.6	5614.2	5597.3	5601.1	5582.3
12.5°	5783.3	5770.2	5775.8	5773.9	5796.5	5790.8	5775.8	5757.0	5728.8	5710.1	5689.4
15°	5980.6	5960.0	5975.0	5990.0	6012.6	6022.0	6010.7	5960.0	5918.6	5888.6	5871.6
17.5°	6221.1	6187.3	6217.4	6247.4	6296.3	6305.7	6264.3	6202.3	6157.2	6144.1	6115.9
20°	6501.1	6495.4	6497.3	6546.2	6621.3	6634.5	6580.0	6506.7	6461.6	6463.5	6431.6
22.5°	6839.3	6809.2	6818.6	6867.5	6974.6	7010.3	6920.1	6839.3	6811.1	6818.6	6814.9
25°	7226.3	7198.2	7185.0	7207.6	7346.6	7408.6	7322.2	7228.2	7215.1	7232.0	7205.7
27.5°	7651.0	7624.7	7609.6	7620.9	7729.9	7846.4	7750.6	7671.7	7669.8	7694.2	7679.2
30°	8133.9	8094.4	8077.5	8090.7	8165.8	8278.5	8201.5	8154.5	8194.0	8210.9	8205.3
32.5°	8622.4	8603.6	8598.0	8594.2	8686.3	8750.2	8712.6	8722.0	8753.9	8831.0	8806.5
35°	9178.6	9124.1	9139.1	9150.4	9270.6	9276.3	9280.0	9296.9	9381.5	9490.5	9426.6
37.5°	9757.3	9744.1	9753.5	9721.6	9809.9	9845.6	9898.2	9954.5	10088.0	10213.8	10187.5
40°	10473.1	10448.7	10458.1	10420.5	10463.7	10491.9	10599.0	10721.1	10892.1	11027.4	10965.4
42.5°	11422.0	11360.0	11360.0	11371.3	11461.4	11431.4	11660.6	11694.4	11906.8	12021.4	11985.7
45°	12538.1	12515.5	12397.2	12198.0	12085.2	12083.4	12267.5	12541.8	12893.2	13131.8	13129.9
47.5°	13956.7	13887.1	13603.4	13124.3	12838.7	12769.2	12962.7	13496.3	14142.7	14514.7	14509.1
50°	15816.8	15728.5	15298.2	14554.2	13998.0	13827.0	14137.0	14828.5	15698.4	16194.5	16235.8
52.5°	17898.6	17906.2	17419.5	16294.0	15471.1	15162.9	15491.7	16480.1	17564.2	18244.4	18325.2
55°	20316.8	20258.6	19798.2	18522.4	17389.5	16728.1	17226.0	18535.6	19781.3	20299.9	20442.7
57.5°	22834.6	22607.2	22254.0	21060.9	19736.2	18890.7	19488.2	20769.6	21962.8	22624.1	22601.6
60°	25066.7	24916.4	24713.5	23762.8	22746.3	21780.5	22240.8	23325.0	24347.1	24747.3	24764.2
62.5°	27505.6	27379.7	27197.4	26677.0	26117.1	25758.2	25341.1	25842.7	26641.3	27079.1	27221.9
65°	29899.3	29854.2	29959.5	29880.6	30117.3	30064.7	29065.1	28749.4	28762.6	28638.6	28574.7
67.5°	29758.4	29741.5	30361.6	31597.9	33957.8	34626.7	32062.0	29206.0	27919.0	27592.0	27545.0
70°	27588.3	27770.5	28918.5	31338.6	35645.1	36415.5	32903.7	27719.8	26073.9	25254.6	25051.7
72.5°	23413.3	23770.3	25530.8	29095.2	34243.4	34420.0	30788.1	25483.9	23060.1	22083.0	21938.3
75°	18065.9	18111.0	19912.9	24442.9	30560.7	30782.4	27464.3	21374.7	18990.3	17774.6	17737.1
77.5°	11003.0	11643.7	14272.3	18327.0	24294.5	25448.2	22969.9	17024.9	14189.6	13113.0	12511.8
80°	5398.2	5691.3	7585.2	11587.3	17365.0	19298.4	17045.6	11775.2	8752.0	7386.1	7235.7
82.5°	2457.6	2613.6	3588.7	6057.7	10478.8	12874.4	10520.1	6743.5	4672.9	3654.5	3620.7
85°	954.5	948.9	1452.4	2542.2	5016.7	7128.6	5326.8	3216.7	2138.2	1589.6	1499.4
87.5°	278.1	296.9	426.5	834.2	1486.2	2002.9	1642.2	1112.3	657.6	422.8	388.9
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)