

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: P510673

Luminaire Tested: **CST-CA6-230-740-U-T5N**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510673
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-CA6-230-740-U-T5N
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (6) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36720 lumens
Efficiency: N/A
Efficacy: 161.2 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

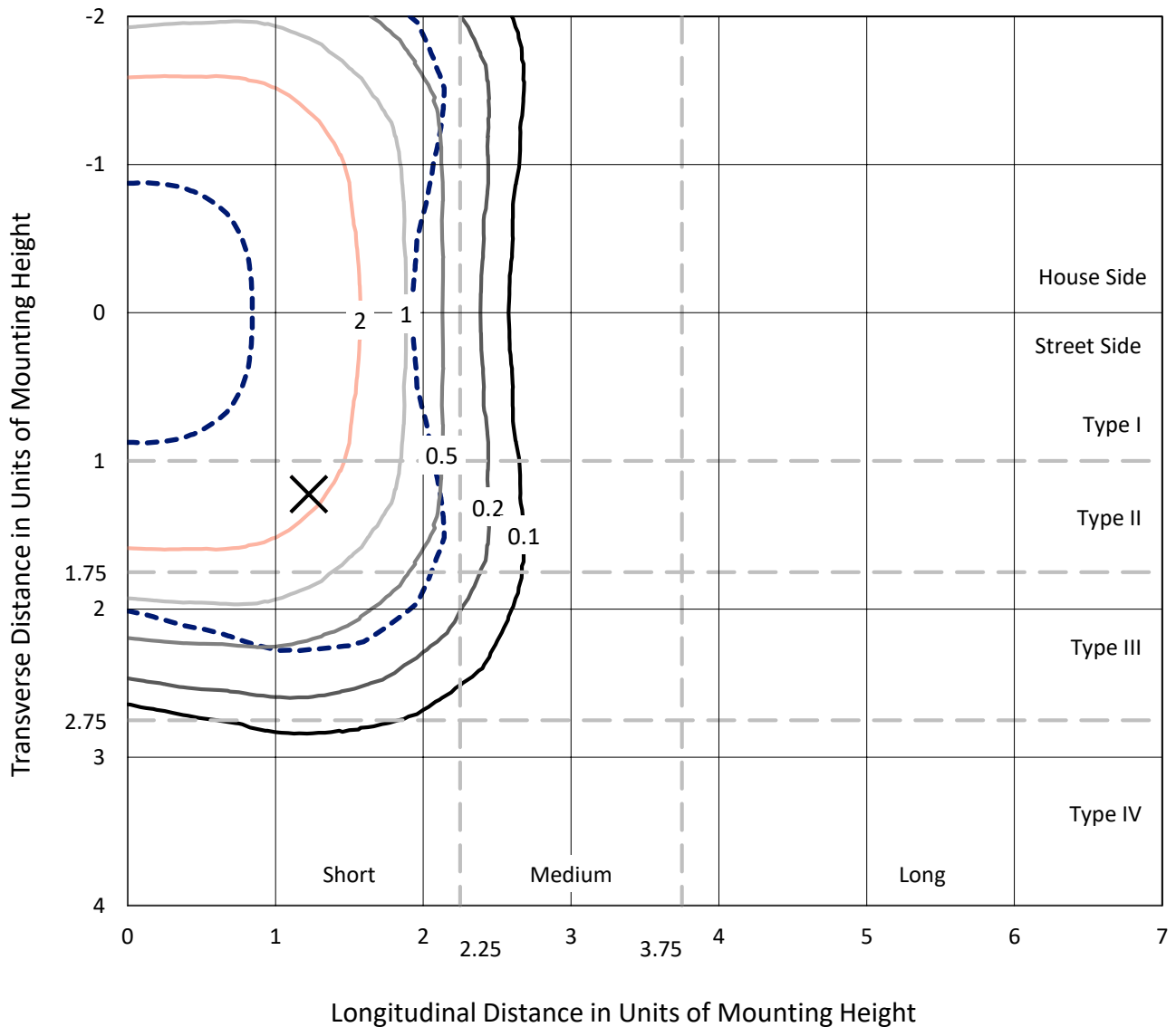
Input Watts (W): 227.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

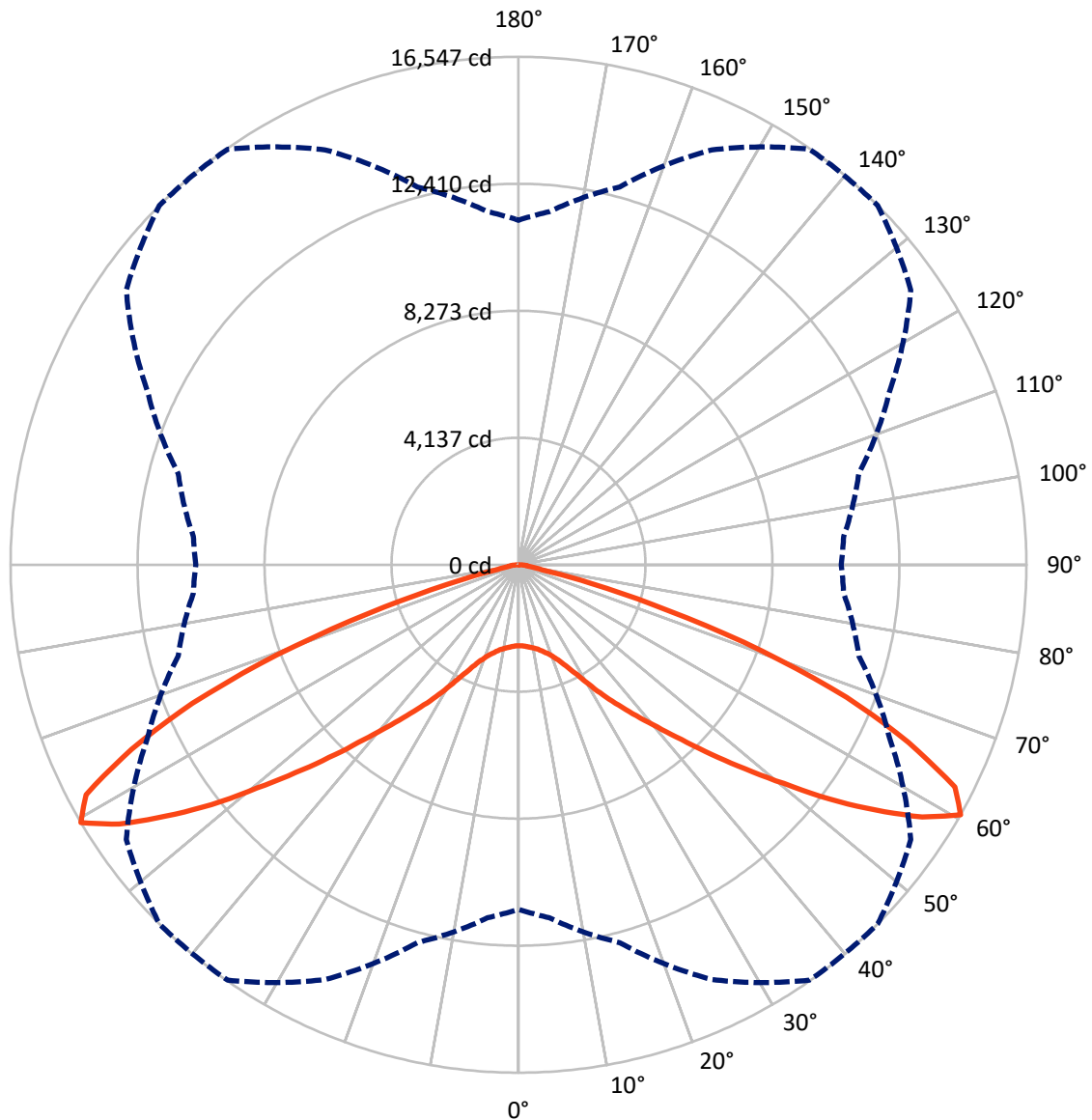
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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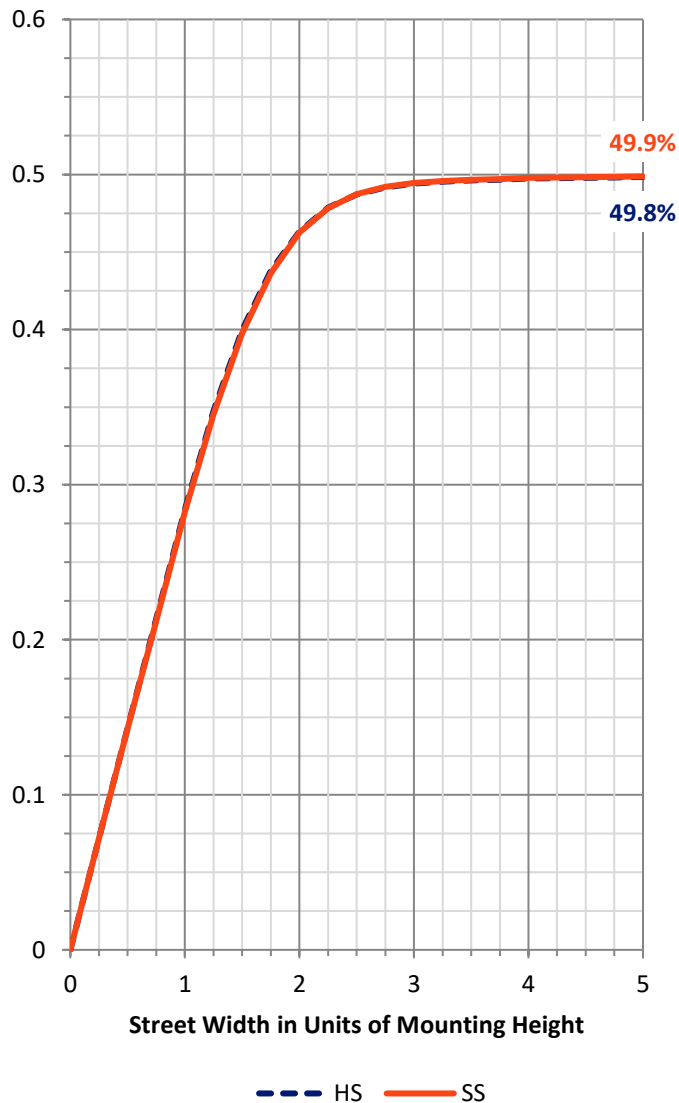
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18360.0	0.0	18360.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18360.0	0.0	18360.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	36720.0	0.0	36720.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.0	0.7
10°-20°	841.2	2.3
20°-30°	1786.6	4.9
30°-40°	3788.2	10.3
40°-50°	7204.2	19.6
50°-60°	11429.0	31.1
60°-70°	9660.5	26.3
70°-80°	1589.3	4.3
80°-90°	163.0	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°	36720.0	100.0
0°-180°	36720.0	100.0

Coefficient of Utilization



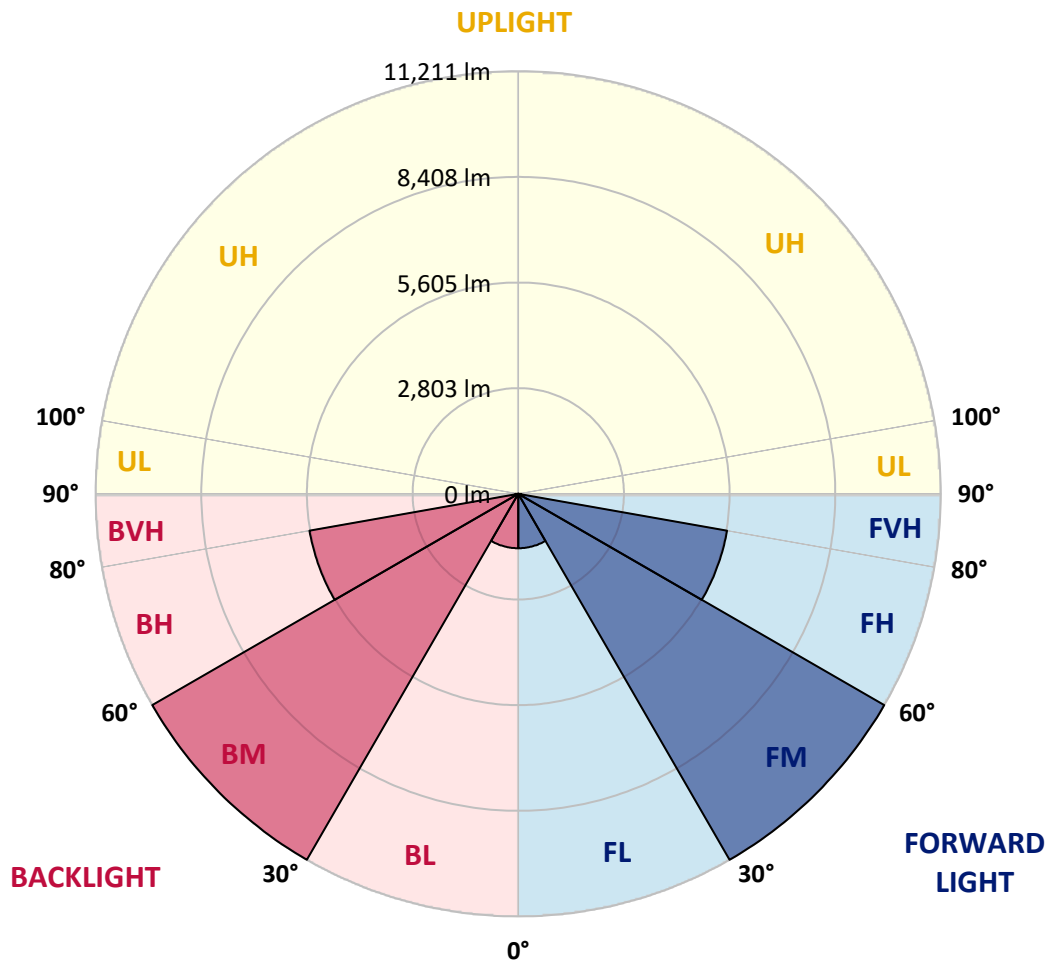
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1442.9	3.9			
FM (30°-60°)	11210.7	30.5			
FH (60°-80°)	5624.9	15.3			G3/7500
FVH (80°-90°)	81.5	0.2			G1/100
BL (0°-30°)	1442.9	3.9	B3/2500		
BM (30°-60°)	11210.7	30.5	B5		
BH (60°-80°)	5624.9	15.3	B5		G3/7500
BVH (80°-90°)	81.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2636.4	2636.4	2636.4	2636.4	2636.4	2636.4	2636.4	2636.4	2636.4	2636.4	2636.4
2.5°	2655.4	2648.8	2646.7	2644.0	2645.4	2646.1	2649.9	2650.2	2650.2	2653.7	2659.6
5°	2685.2	2676.5	2673.4	2669.9	2671.7	2673.4	2676.9	2678.9	2678.6	2680.7	2685.9
7.5°	2717.3	2714.2	2710.4	2708.3	2708.3	2713.2	2710.8	2714.6	2714.2	2716.7	2719.8
10°	2765.1	2758.2	2757.8	2754.0	2755.8	2759.9	2760.6	2759.9	2760.6	2762.0	2769.3
12.5°	2825.7	2823.9	2825.0	2821.9	2820.8	2825.3	2826.4	2830.9	2832.2	2836.4	2840.9
15°	2923.3	2912.2	2910.8	2910.5	2912.5	2919.5	2921.5	2929.8	2933.6	2939.5	2949.6
17.5°	3033.7	3037.5	3030.5	3029.8	3029.5	3035.0	3040.6	3058.9	3064.8	3078.3	3086.9
20°	3209.8	3202.9	3198.7	3182.1	3178.0	3187.7	3207.7	3232.0	3243.4	3264.8	3281.1
22.5°	3445.1	3433.4	3405.0	3385.3	3377.0	3393.6	3415.4	3454.1	3500.2	3526.8	3534.1
25°	3785.3	3738.9	3703.6	3668.7	3656.2	3680.8	3716.1	3777.7	3835.5	3888.8	3913.4
27.5°	4199.6	4170.2	4099.9	4044.9	4023.1	4043.8	4117.2	4204.1	4310.0	4365.3	4373.6
30°	4725.6	4710.4	4620.7	4517.6	4478.8	4514.8	4601.4	4719.7	4867.1	4981.0	5001.1
32.5°	5376.9	5299.7	5175.1	5057.1	5015.6	5059.6	5146.4	5316.3	5515.0	5641.0	5683.9
35°	6123.7	6036.5	5849.3	5667.9	5614.3	5619.8	5759.0	5998.4	6270.1	6445.9	6494.0
37.5°	6947.4	6858.4	6637.6	6356.3	6232.0	6241.4	6423.4	6734.9	7107.3	7299.0	7362.7
40°	7826.4	7734.3	7506.6	7189.6	6985.4	6943.9	7187.2	7566.5	7944.7	8175.9	8200.5
42.5°	8685.7	8576.7	8393.6	8076.6	7890.4	7779.0	8072.8	8416.4	8797.8	9006.1	9022.4
45°	9453.3	9432.2	9285.1	9055.3	8902.0	8803.3	9013.1	9354.3	9620.8	9752.6	9800.7
47.5°	10195.2	10182.1	10135.0	10054.7	10092.8	9928.8	10029.5	10184.2	10330.6	10427.5	10464.8
50°	10845.5	10859.3	10951.7	11088.4	11363.9	11197.8	11166.3	10999.9	11004.0	11011.6	11050.4
52.5°	11382.6	11456.0	11688.5	12101.1	12695.9	12692.1	12215.6	11776.1	11577.4	11489.2	11497.2
55°	11850.8	11976.5	12360.6	13212.3	14063.6	14106.2	13458.0	12484.5	12112.1	11923.9	11948.4
57.5°	12109.4	12300.7	12951.0	14243.9	15457.2	15508.5	14786.6	13269.0	12416.3	11939.8	11960.2
60°	11222.0	11544.2	12743.0	14909.4	16523.1	16546.7	15598.8	13330.6	11475.7	10632.3	10508.8
62.5°	9183.3	9629.8	11321.0	14393.8	16029.3	15956.3	15090.4	12176.5	9427.0	8404.0	8300.2
65°	6898.2	7318.0	9088.9	12324.6	14064.7	13968.4	13086.7	9623.5	6911.4	5825.4	5697.7
67.5°	3733.4	4367.4	6024.4	9414.5	11212.0	11538.3	10316.7	6707.5	4022.0	2916.0	2803.9
70°	1289.5	1666.3	3071.7	5909.8	8087.0	8414.4	7035.3	3597.4	1760.1	1100.5	988.0
72.5°	457.9	527.8	1154.8	2854.0	4604.1	5101.4	3796.0	1446.9	561.0	408.7	400.4
75°	323.2	333.6	410.4	930.6	1993.4	2441.5	1496.8	480.3	349.9	327.0	325.0
77.5°	288.6	294.5	332.6	378.9	609.1	779.7	460.6	348.5	303.8	291.0	286.5
80°	274.4	278.9	290.0	310.8	345.4	359.2	310.8	298.0	276.5	271.0	269.2
82.5°	239.8	238.8	241.9	250.6	266.1	269.6	249.5	233.6	233.9	227.4	224.3
85°	162.3	172.0	164.7	155.7	193.1	194.1	181.0	135.7	154.0	150.9	138.1
87.5°	49.1	55.4	44.0	30.5	41.9	32.5	29.4	30.5	29.1	25.3	22.8
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)