

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: P232777

Luminaire Tested: **CST-10-3-D-U-T5N-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232777
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1707-171-22)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-10-3-D-U-T5N-7050
Description: CELESTEON HIGH MAST LUMINAIRE
(10) 70 CRI, 5000K LEDS AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35377 lumens
Efficiency: N/A
Efficacy: 166.9 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 212
Input Voltage (V): NR
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

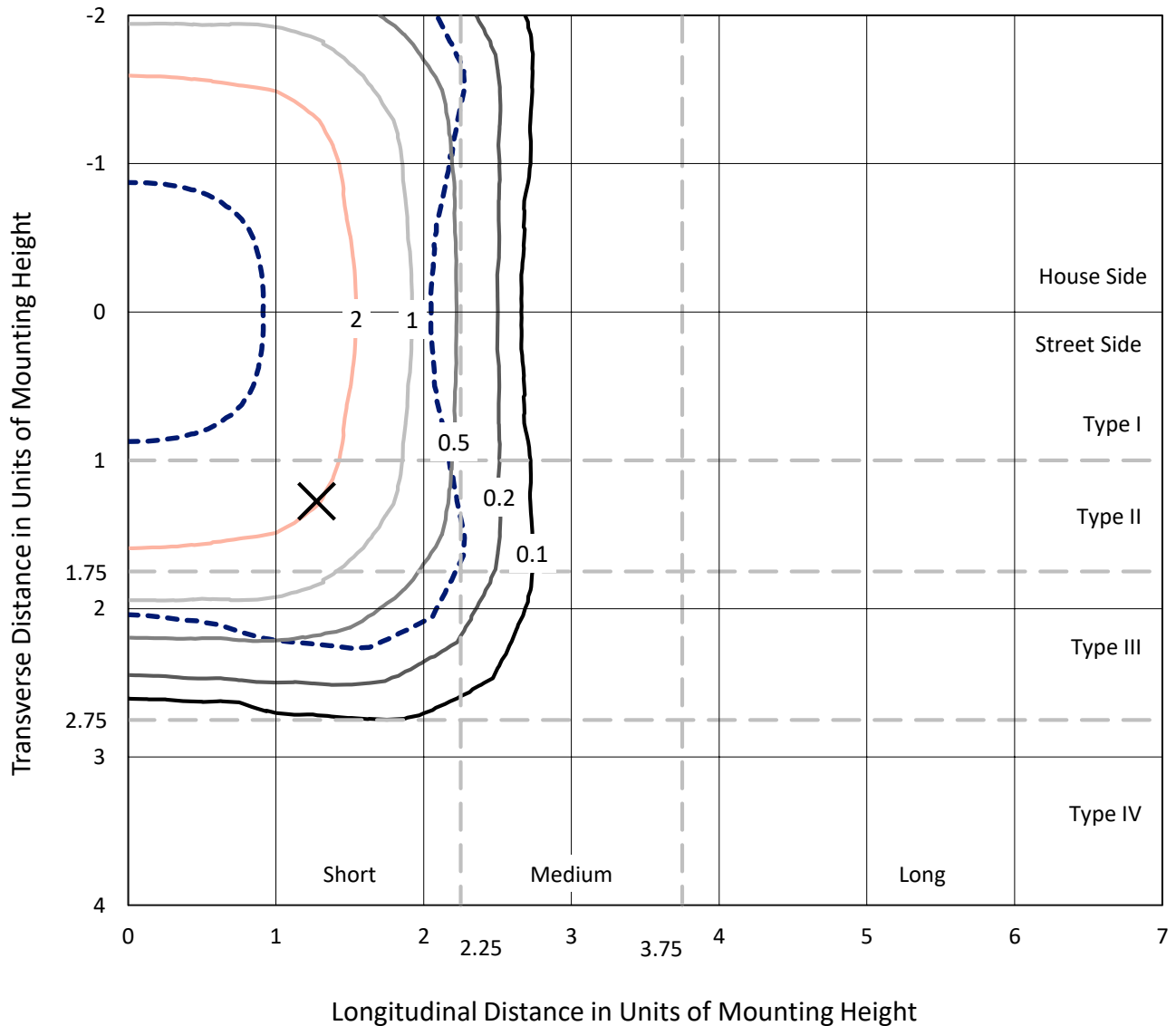


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

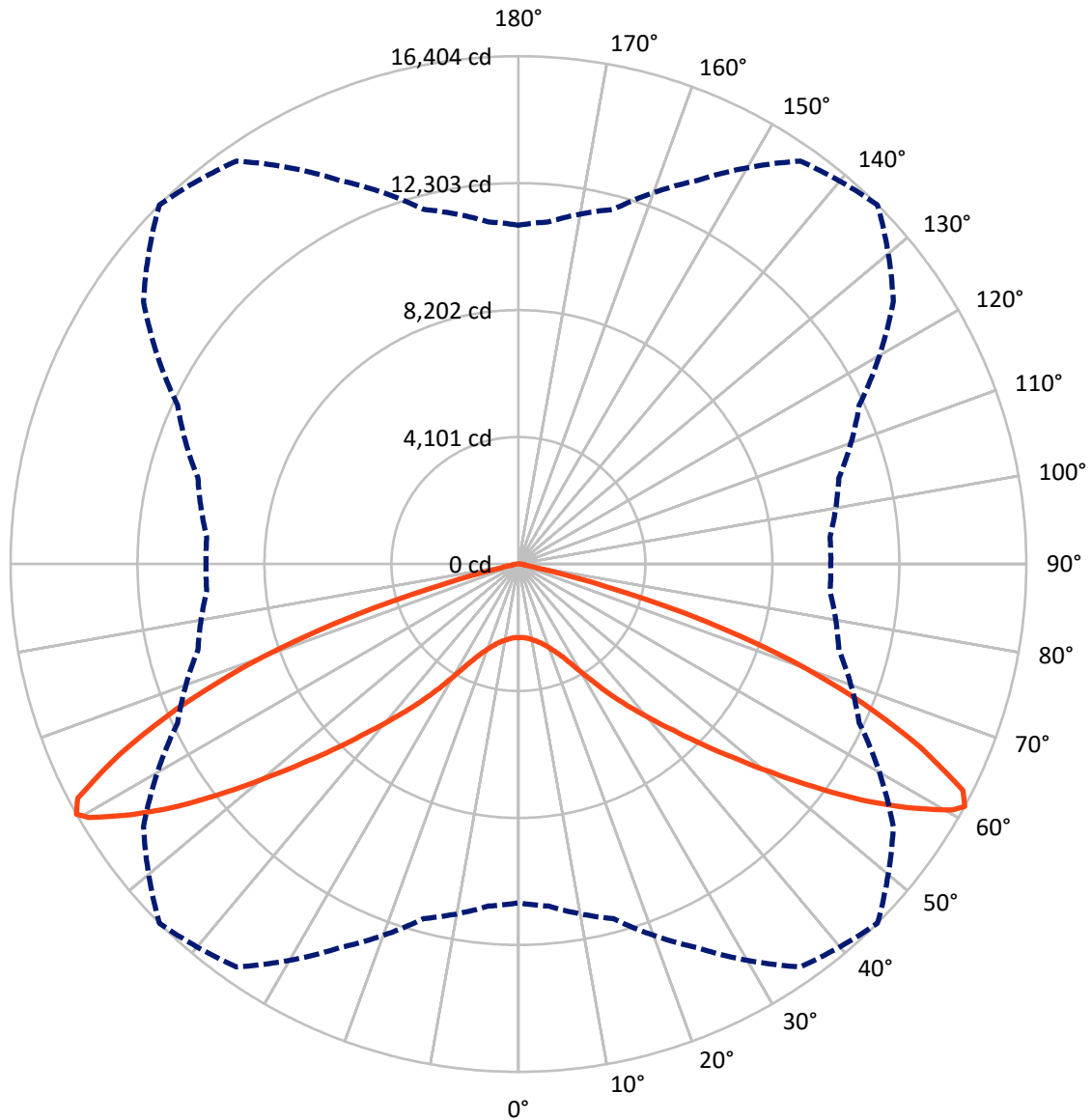


Based on 30 foot mounting height. Maximum calculated value = 3.9 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 61-Deg Vertical

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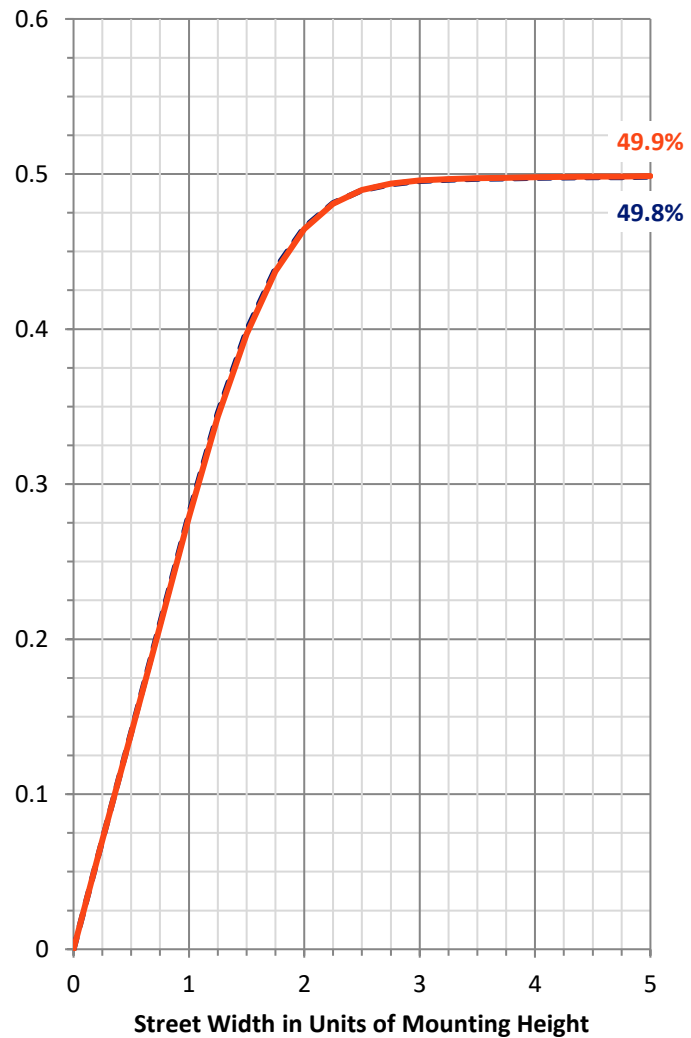
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17688.5	0.0	17688.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17688.5	0.0	17688.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	35377.0	0.0	35377.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.7	0.7
10°-20°	762.3	2.2
20°-30°	1626.5	4.6
30°-40°	3542.8	10.0
40°-50°	6851.1	19.4
50°-60°	10879.8	30.8
60°-70°	9811.2	27.7
70°-80°	1535.7	4.3
80°-90°	134.9	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°	35377.0	100.0
0°-180°	35377.0	100.0



--- HS — SS

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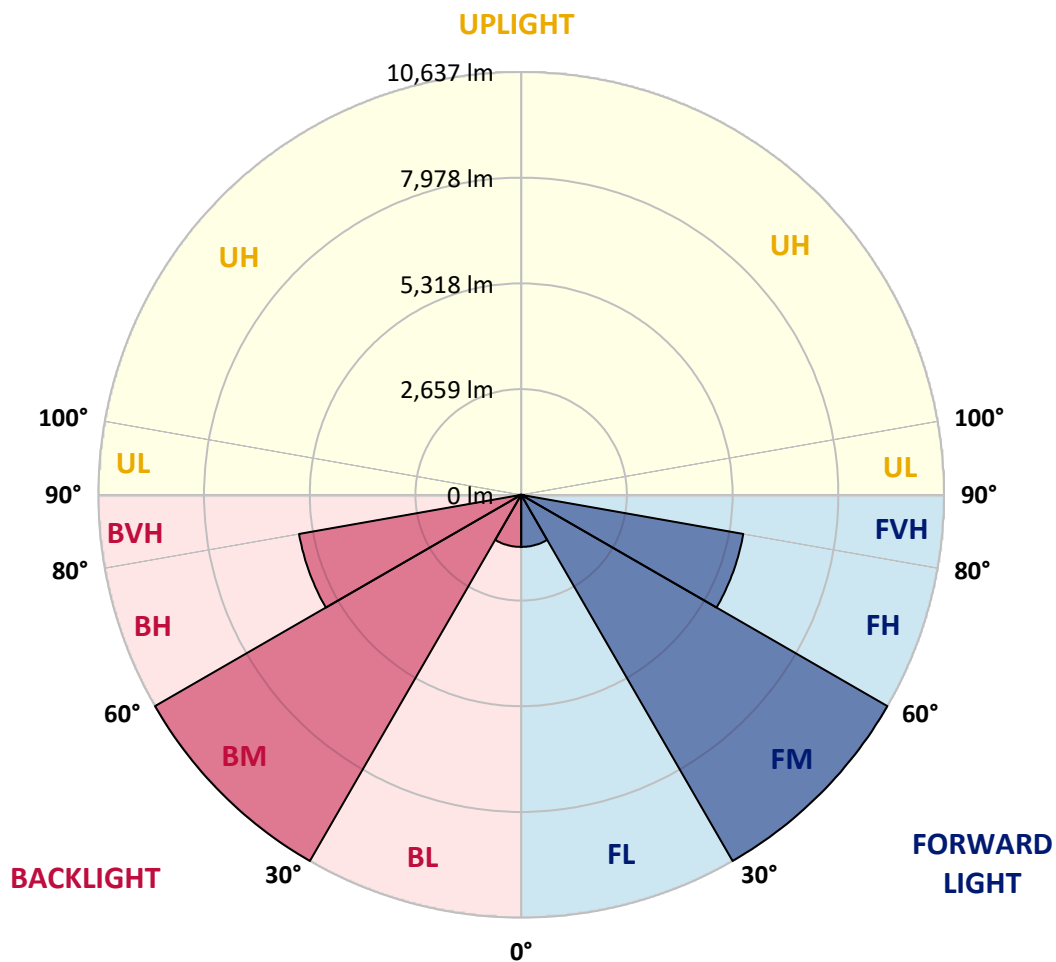
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1310.8	3.7			
FM	(30°-60°)	10636.8	30.1			
FH	(60°-80°)	5673.5	16.0			G3/7500
FVH	(80°-90°)	67.5	0.2			G1/100
BL	(0°-30°)	1310.8	3.7	B3/2500		
BM	(30°-60°)	10636.8	30.1	B5		
BH	(60°-80°)	5673.5	16.0	B5		G3/7500
BVH	(80°-90°)	67.5	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°	2381.4	2381.4	2381.4	2381.4	2381.4	2381.4	2381.4	2381.4	2381.4	2381.4	2381.4
2.5°	2397.8	2392.7	2396.8	2399.8	2364.0	2373.2	2372.2	2396.8	2391.6	2402.9	2409.1
5°	2414.2	2406.0	2411.1	2419.3	2385.5	2397.8	2397.8	2420.3	2412.1	2423.4	2434.7
7.5°	2443.9	2435.7	2441.9	2452.1	2420.3	2433.7	2434.7	2461.3	2450.1	2459.3	2476.7
10°	2493.1	2488.0	2490.0	2499.2	2469.5	2485.9	2485.9	2514.6	2502.3	2512.6	2534.1
12.5°	2550.5	2548.4	2550.5	2562.8	2535.1	2551.5	2551.5	2579.2	2571.0	2583.3	2603.8
15°	2626.3	2624.3	2625.3	2641.7	2619.1	2634.5	2637.6	2666.3	2664.2	2677.5	2696.0
17.5°	2733.9	2733.9	2732.9	2747.2	2732.9	2748.2	2754.4	2785.1	2797.4	2813.8	2825.1
20°	2897.8	2888.6	2883.5	2890.7	2879.4	2895.8	2906.0	2956.3	2976.7	3002.4	3011.6
22.5°	3112.0	3099.7	3083.3	3076.1	3060.8	3082.3	3102.8	3174.5	3204.2	3246.2	3256.5
25°	3407.1	3386.6	3355.9	3327.2	3292.4	3323.1	3361.0	3459.4	3520.9	3576.2	3584.4
27.5°	3810.8	3780.1	3733.0	3677.6	3616.2	3654.1	3709.4	3852.9	3936.9	4025.0	4038.3
30°	4331.4	4326.3	4252.5	4154.1	4072.1	4093.7	4162.3	4339.6	4472.8	4564.0	4589.6
32.5°	5026.1	5021.0	4897.0	4731.0	4614.2	4628.6	4692.1	4888.8	5054.8	5203.4	5208.5
35°	5854.1	5837.7	5663.5	5434.0	5246.5	5230.1	5292.6	5488.3	5714.7	5887.9	5905.3
37.5°	6799.9	6773.3	6572.4	6225.0	5935.0	5867.4	5911.5	6157.4	6419.7	6615.4	6634.9
40°	7726.2	7705.7	7482.3	7156.5	6732.3	6561.1	6564.2	6878.8	7166.7	7348.1	7388.1
42.5°	8618.7	8635.1	8421.0	8089.0	7645.3	7339.9	7344.0	7649.4	7947.6	8136.1	8188.4
45°	9534.8	9520.5	9319.6	9034.8	8625.9	8287.8	8173.0	8478.3	8774.5	8929.2	8985.6
47.5°	10284.9	10259.3	10124.0	9973.4	9670.1	9337.0	9135.2	9347.3	9551.2	9655.7	9713.1
50°	10938.6	10918.2	10904.8	10841.3	10773.7	10558.5	10226.5	10213.2	10257.2	10279.8	10332.0
52.5°	11492.0	11491.0	11562.7	11718.4	11885.5	11960.3	11385.4	11013.4	10861.8	10750.1	10769.6
55°	11909.0	11903.9	12107.8	12524.9	13115.1	13453.3	12604.8	11706.1	11306.5	11090.3	11088.3
57.5°	12123.2	12132.4	12546.4	13301.6	14396.0	14857.1	13777.1	12342.5	11658.0	11329.1	11325.0
60°	11557.6	11596.5	12408.1	13783.2	15528.3	16130.8	14737.2	12474.7	11276.8	10724.5	10710.1
61°	10944.8	11091.3	11858.8	13673.6	15886.9	16404.4	14783.3	12146.8	10715.3	10105.6	10092.2
62.5°	9597.3	9734.6	10908.9	13400.0	15862.3	16117.5	14521.0	11557.6	9834.0	9154.6	9127.0
65°	6963.8	7125.7	8390.2	11872.1	14419.5	14267.9	13208.4	10205.0	8246.8	7482.3	7447.5
67.5°	3501.4	3708.4	5127.6	8615.7	11715.4	12003.3	11276.8	8079.7	5844.9	4413.4	4409.3
70°	904.8	992.9	1848.6	4531.2	8448.6	9401.6	8598.2	4680.8	2272.8	1371.0	1286.0
72.5°	253.1	265.4	502.1	1650.8	4804.8	6298.8	4661.3	1636.4	512.3	292.0	267.4
75°	178.3	181.4	199.8	418.1	1814.7	2939.9	1502.2	353.5	204.9	193.7	193.7
77.5°	158.8	160.9	173.2	225.4	380.2	660.9	287.9	228.5	180.3	174.2	172.1
80°	168.1	170.1	177.3	218.3	223.4	237.7	199.8	197.8	179.3	183.4	181.4
82.5°	180.3	184.4	193.7	223.4	191.6	192.6	164.0	162.9	158.8	180.3	181.4
85°	159.9	167.0	174.2	195.7	157.8	129.1	134.2	106.6	113.7	135.3	130.1
87.5°	89.1	88.1	85.0	89.1	79.9	64.6	54.3	49.2	45.1	51.2	50.2
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)