

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: P232767

Luminaire Tested: **CST-6-3-D-U-T5N**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232767
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-6-3-D-U-T5N
Description: CELESTEON HIGH MAST LUMINAIRE
(6) 70 CRI, 4000K LEDS AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34524 lumens
Efficiency: N/A
Efficacy: 147.5 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

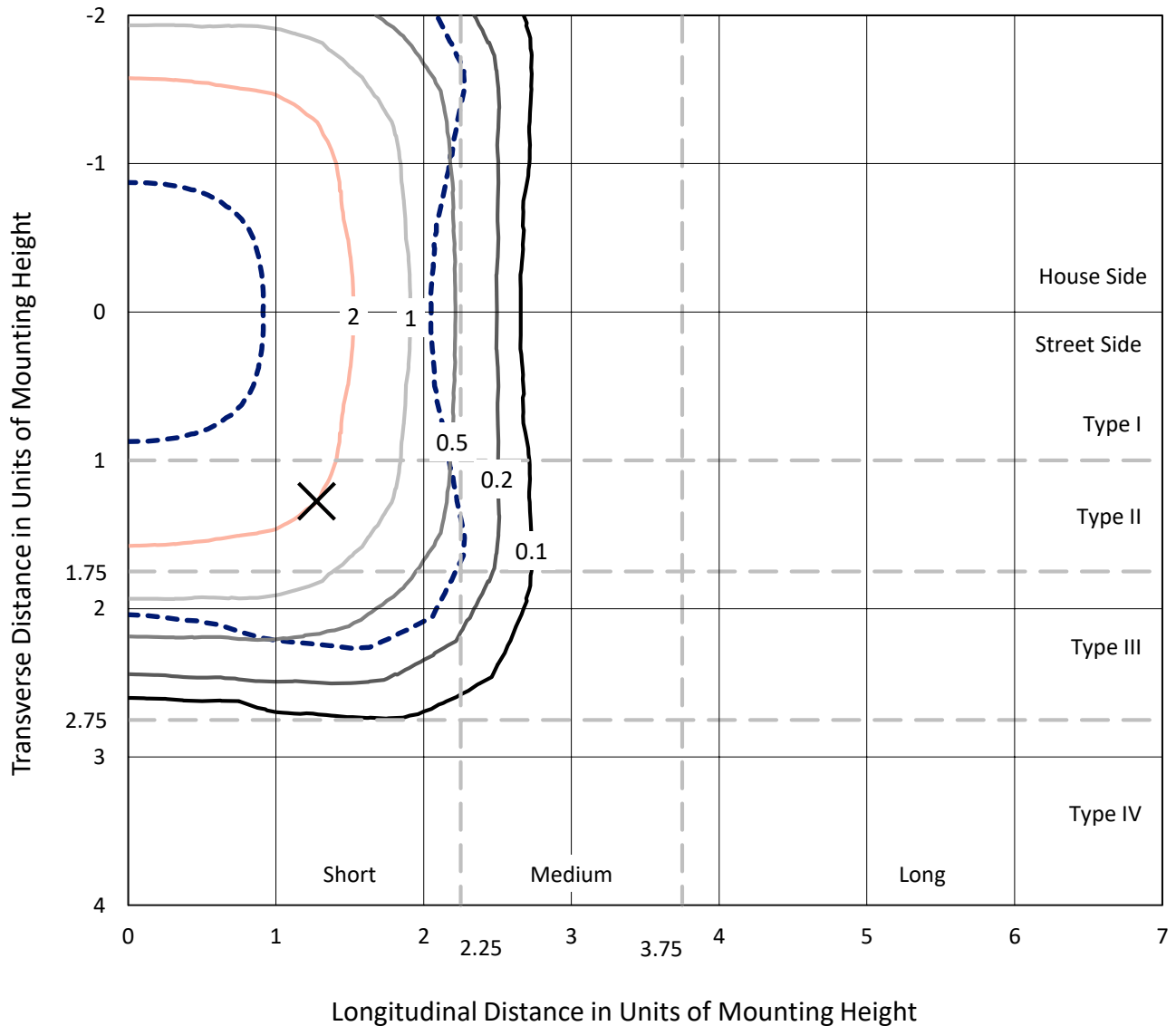
Input Watts (W): 234
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

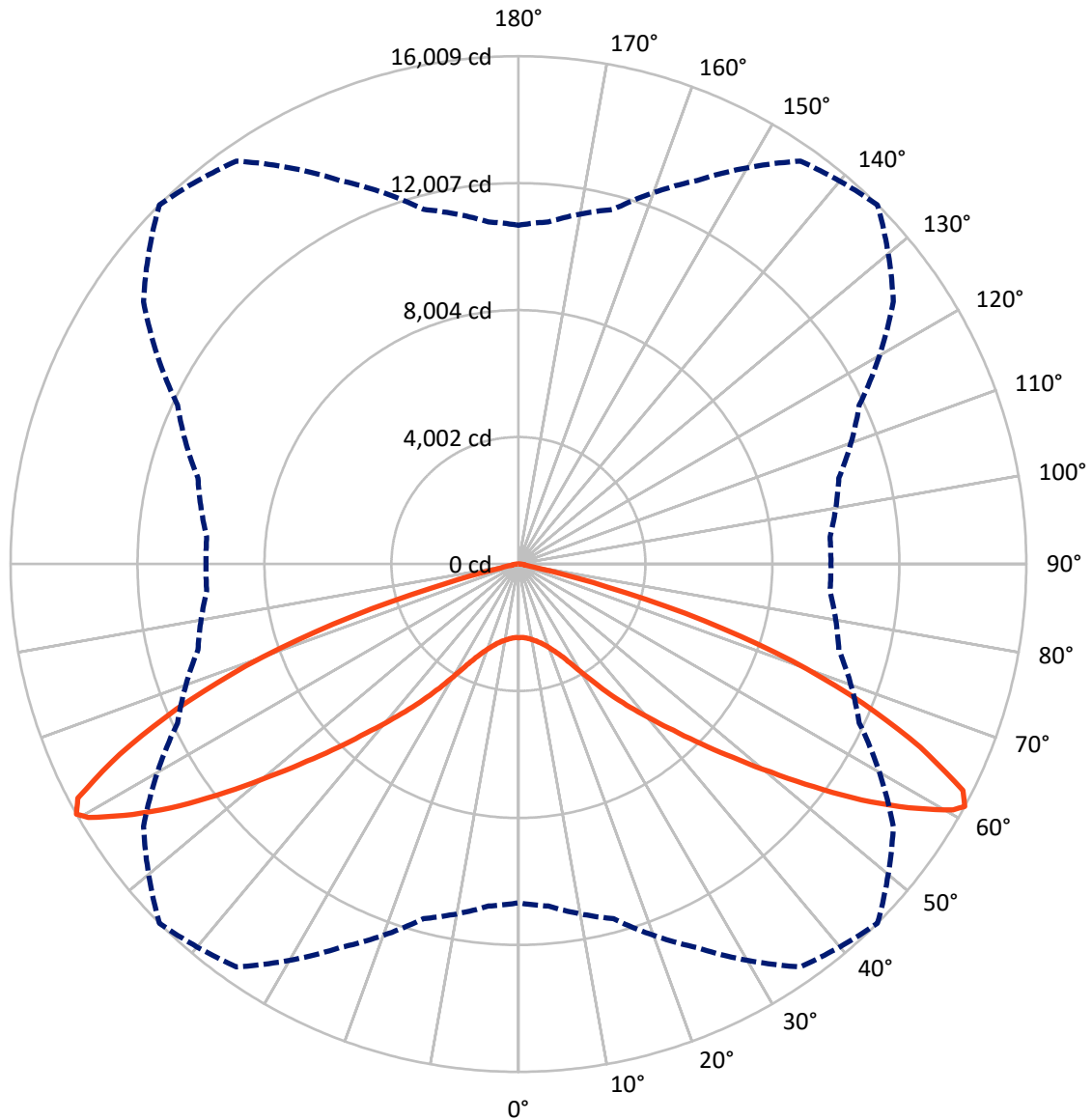
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.8 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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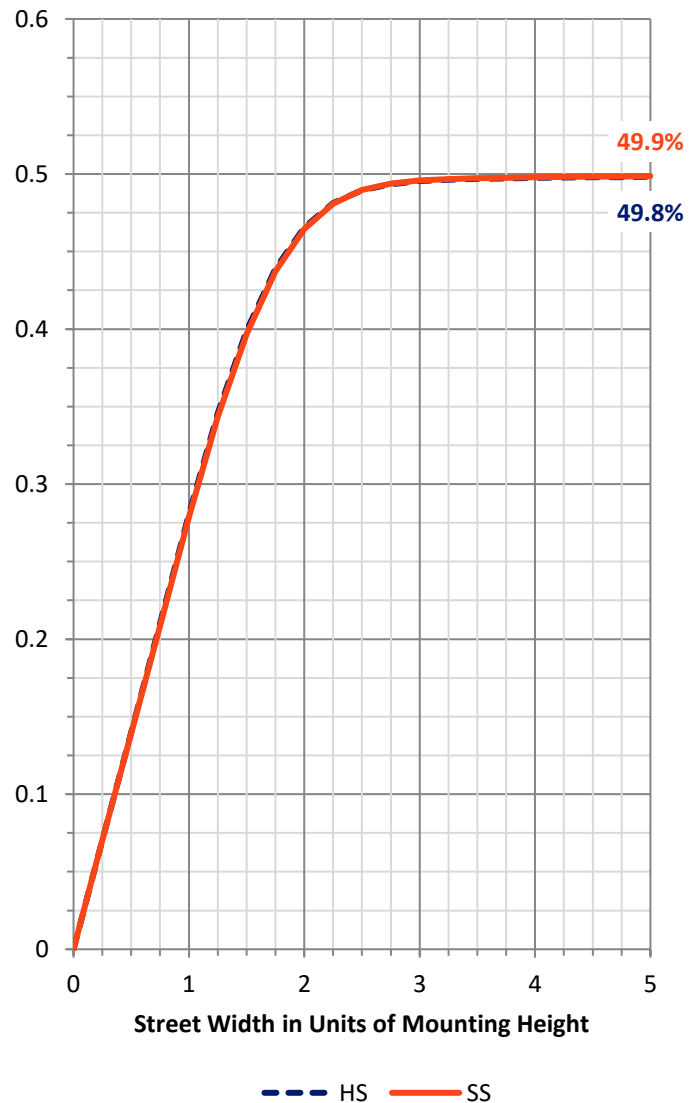
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17262.0	0.0	17262.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17262.0	0.0	17262.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	34524.0	0.0	34524.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.0	0.7
10°-20°	744.0	2.2
20°-30°	1587.3	4.6
30°-40°	3457.4	10.0
40°-50°	6685.9	19.4
50°-60°	10617.4	30.8
60°-70°	9574.7	27.7
70°-80°	1498.6	4.3
80°-90°	131.7	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°	34524.0	100.0
0°-180°	34524.0	100.0



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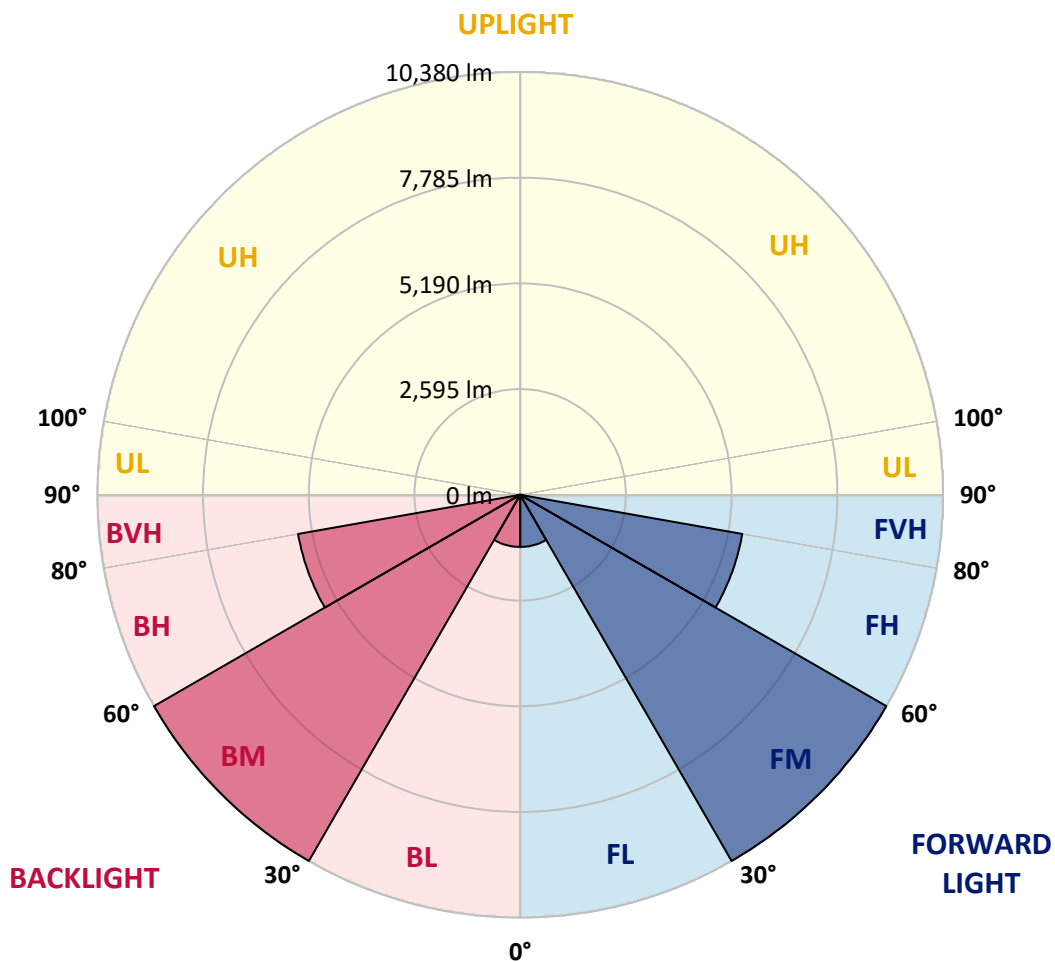
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1279.2	3.7			
FM (30°-60°)	10380.3	30.1			
FH (60°-80°)	5536.7	16.0			G3/7500
FVH (80°-90°)	65.8	0.2			G1/100
BL (0°-30°)	1279.2	3.7	B3/2500		
BM (30°-60°)	10380.3	30.1	B5		
BH (60°-80°)	5536.7	16.0	B5		G3/7500
BVH (80°-90°)	65.8	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°	2324.0	2324.0	2324.0	2324.0	2324.0	2324.0	2324.0	2324.0	2324.0	2324.0	2324.0
2.5°	2340.0	2335.0	2339.0	2342.0	2307.0	2316.0	2315.0	2339.0	2334.0	2345.0	2351.0
5°	2356.0	2348.0	2353.0	2361.0	2328.0	2340.0	2340.0	2362.0	2354.0	2365.0	2376.0
7.5°	2385.0	2377.0	2383.0	2393.0	2362.0	2375.0	2376.0	2402.0	2391.0	2400.0	2417.0
10°	2433.0	2428.0	2430.0	2439.0	2410.0	2426.0	2426.0	2454.0	2442.0	2452.0	2473.0
12.5°	2489.0	2487.0	2489.0	2501.0	2474.0	2490.0	2490.0	2517.0	2509.0	2521.0	2541.0
15°	2563.0	2561.0	2562.0	2578.0	2556.0	2571.0	2574.0	2602.0	2600.0	2613.0	2631.0
17.5°	2668.0	2668.0	2667.0	2681.0	2667.0	2682.0	2688.0	2718.0	2730.0	2746.0	2757.0
20°	2828.0	2819.0	2814.0	2821.0	2810.0	2826.0	2836.0	2885.0	2905.0	2930.0	2939.0
22.5°	3037.0	3025.0	3009.0	3002.0	2987.0	3008.0	3028.0	3098.0	3127.0	3168.0	3178.0
25°	3325.0	3305.0	3275.0	3247.0	3213.0	3243.0	3280.0	3376.0	3436.0	3490.0	3498.0
27.5°	3719.0	3689.0	3643.0	3589.0	3529.0	3566.0	3620.0	3760.0	3842.0	3928.0	3941.0
30°	4227.0	4222.0	4150.0	4054.0	3974.0	3995.0	4062.0	4235.0	4365.0	4454.0	4479.0
32.5°	4905.0	4900.0	4779.0	4617.0	4503.0	4517.0	4579.0	4771.0	4933.0	5078.0	5083.0
35°	5712.9	5696.9	5526.9	5302.9	5120.0	5104.0	5164.9	5355.9	5576.9	5745.9	5762.9
37.5°	6635.9	6609.9	6413.9	6074.9	5791.9	5725.9	5768.9	6008.9	6264.9	6455.9	6474.9
40°	7539.9	7519.9	7301.9	6983.9	6569.9	6402.9	6405.9	6712.9	6993.9	7170.9	7209.9
42.5°	8410.9	8426.9	8217.9	7893.9	7460.9	7162.9	7166.9	7464.9	7755.9	7939.9	7990.9
45°	9304.9	9290.9	9094.9	8816.9	8417.9	8087.9	7975.9	8273.9	8562.9	8713.9	8768.9
47.5°	10036.9	10011.9	9879.9	9732.9	9436.9	9111.9	8914.9	9121.9	9320.9	9422.9	9478.9
50°	10674.9	10654.9	10641.9	10579.9	10513.9	10303.9	9979.9	9966.9	10009.9	10031.9	10082.9
52.5°	11214.9	11213.9	11283.9	11435.9	11598.9	11671.9	11110.9	10747.9	10599.9	10490.9	10509.9
55°	11621.9	11616.9	11815.9	12222.9	12798.9	13128.9	12300.9	11423.9	11033.9	10822.9	10820.9
57.5°	11830.9	11839.9	12243.9	12980.9	14048.9	14498.9	13444.9	12044.9	11376.9	11055.9	11051.9
60°	11278.9	11316.9	12108.9	13450.9	15153.9	15741.8	14381.9	12173.9	11004.9	10465.9	10451.9
61°	10680.9	10823.9	11572.9	13343.9	15503.8	16008.8	14426.9	11853.9	10456.9	9861.9	9848.9
62.5°	9365.9	9499.9	10645.9	13076.9	15479.8	15728.8	14170.9	11278.9	9596.9	8933.9	8906.9
65°	6795.9	6953.9	8187.9	11585.9	14071.9	13923.9	12889.9	9958.9	8047.9	7301.9	7267.9
67.5°	3417.0	3619.0	5004.0	8407.9	11432.9	11713.9	11004.9	7884.9	5703.9	4307.0	4303.0
70°	883.0	969.0	1804.0	4422.0	8244.9	9174.9	8390.9	4568.0	2218.0	1338.0	1255.0
72.5°	247.0	259.0	490.0	1611.0	4689.0	6146.9	4549.0	1597.0	500.0	285.0	261.0
75°	174.0	177.0	195.0	408.0	1771.0	2869.0	1466.0	345.0	200.0	189.0	189.0
77.5°	155.0	157.0	169.0	220.0	371.0	645.0	281.0	223.0	176.0	170.0	168.0
80°	164.0	166.0	173.0	213.0	218.0	232.0	195.0	193.0	175.0	179.0	177.0
82.5°	176.0	180.0	189.0	218.0	187.0	188.0	160.0	159.0	155.0	176.0	177.0
85°	156.0	163.0	170.0	191.0	154.0	126.0	131.0	104.0	111.0	132.0	127.0
87.5°	87.0	86.0	83.0	87.0	78.0	63.0	53.0	48.0	44.0	50.0	49.0
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)