

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: P232761

Luminaire Tested: **CST-10-3-D-U-T5N-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P232761  
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-7030  
Description: CELESTEON HIGH MAST LUMINAIRE  
(10) 70 CRI, 3000K LEDS AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34079 lumens  
Efficiency: N/A  
Efficacy: 160.8 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

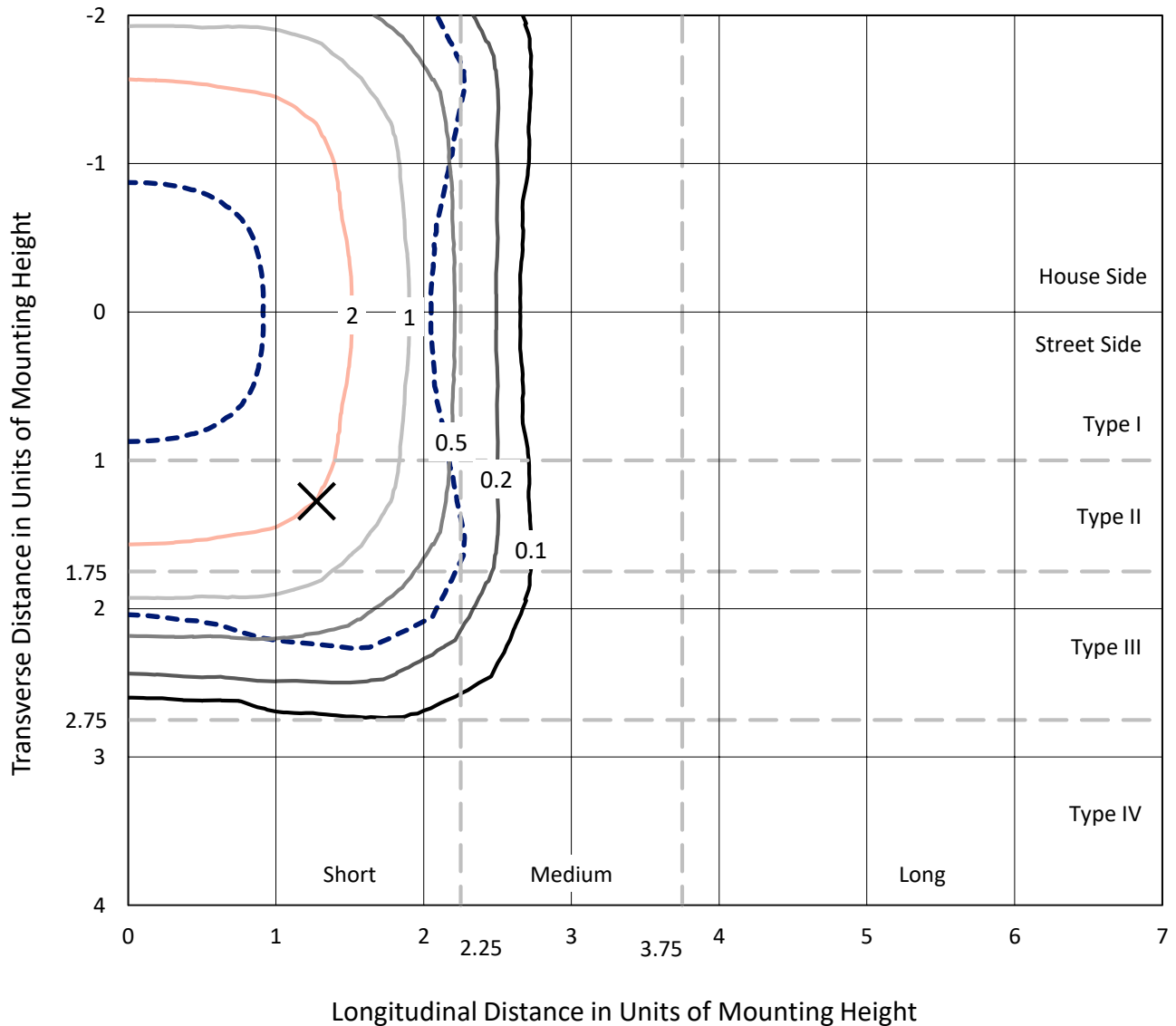


REPORT NUMBER: P232761

CATALOG NUMBER: CST-10-3-D-U-T5N-7030

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

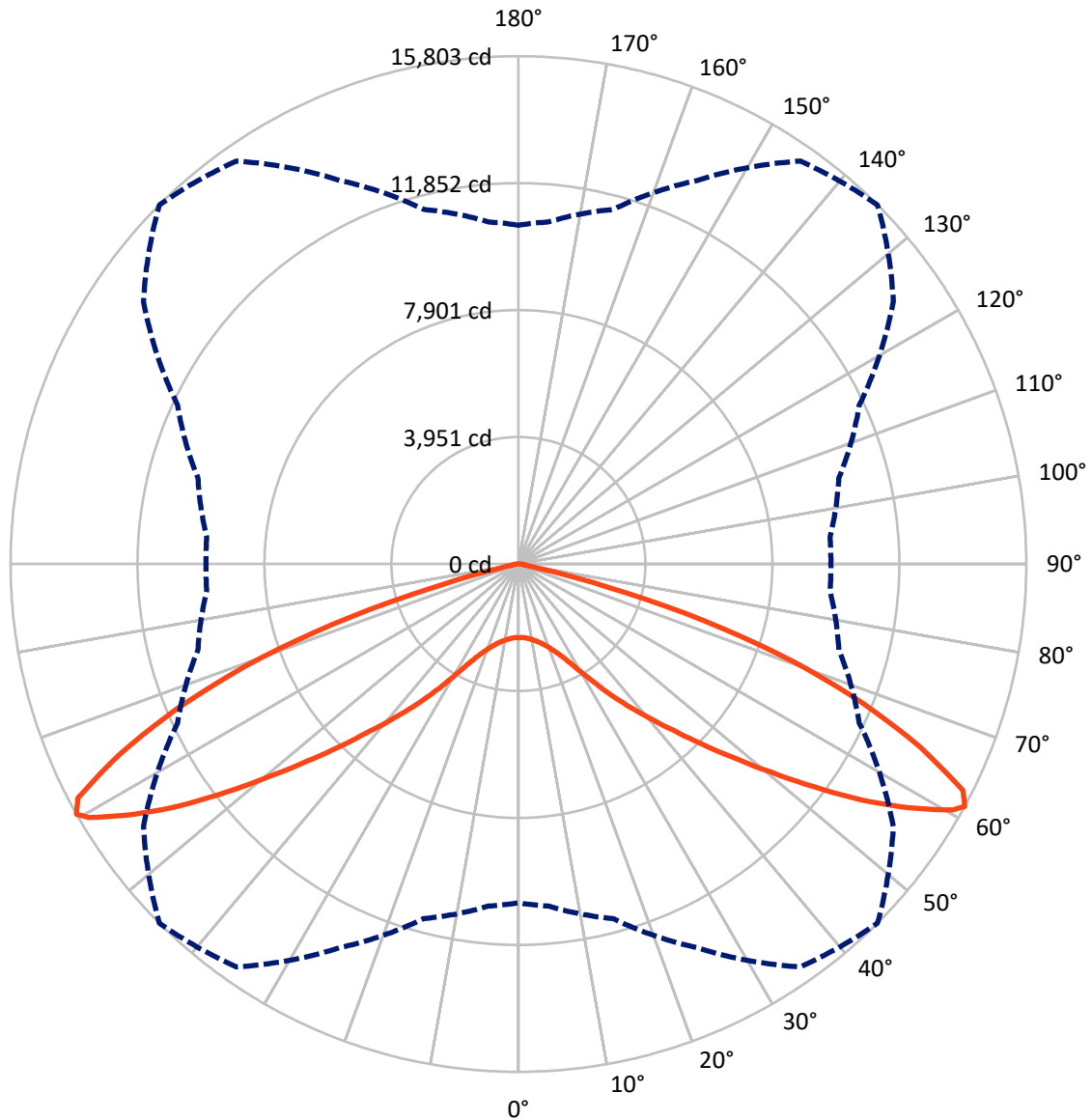


Based on 30 foot mounting height. Maximum calculated value = 3.7 fc  
 Type V - Short - Full Cutoff

REPORT NUMBER: P232761

CATALOG NUMBER: CST-10-3-D-U-T5N-7030

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P232761

CATALOG NUMBER: CST-10-3-D-U-T5N-7030

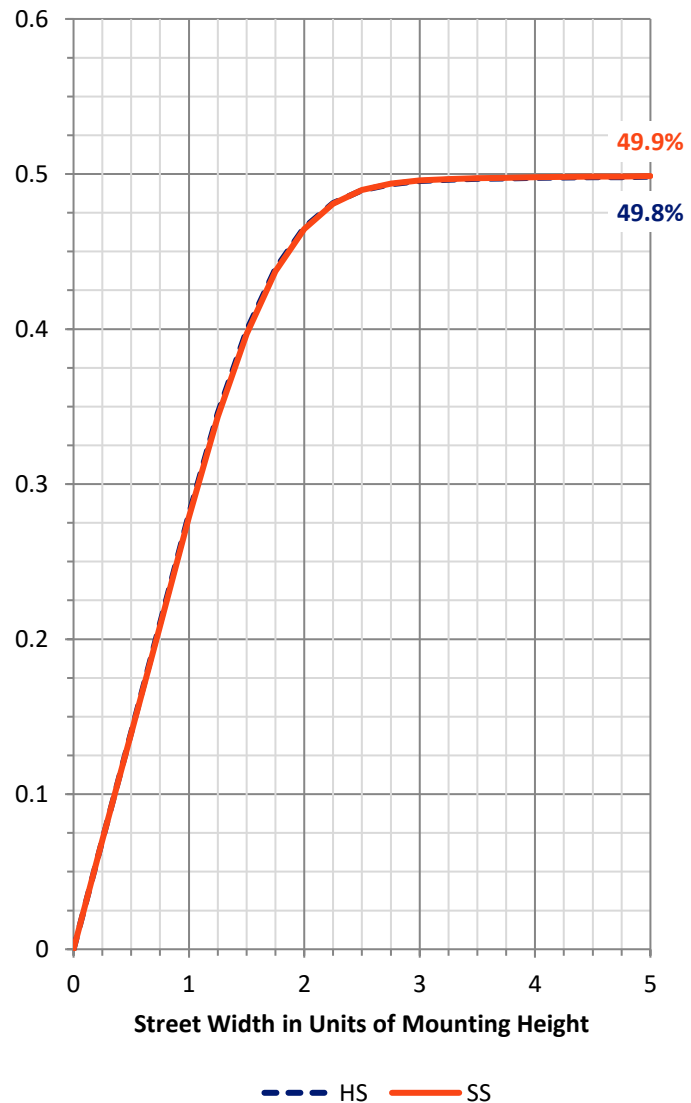
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	17039.5	0.0	17039.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	17039.5	0.0	17039.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	34079.0	0.0	34079.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	224.1	0.7
10°-20°	734.4	2.2
20°-30°	1566.9	4.6
30°-40°	3412.8	10.0
40°-50°	6599.7	19.4
50°-60°	10480.6	30.8
60°-70°	9451.3	27.7
70°-80°	1479.3	4.3
80°-90°	130.0	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°	34079.0	100.0
0°-180°	34079.0	100.0



REPORT NUMBER: P232761

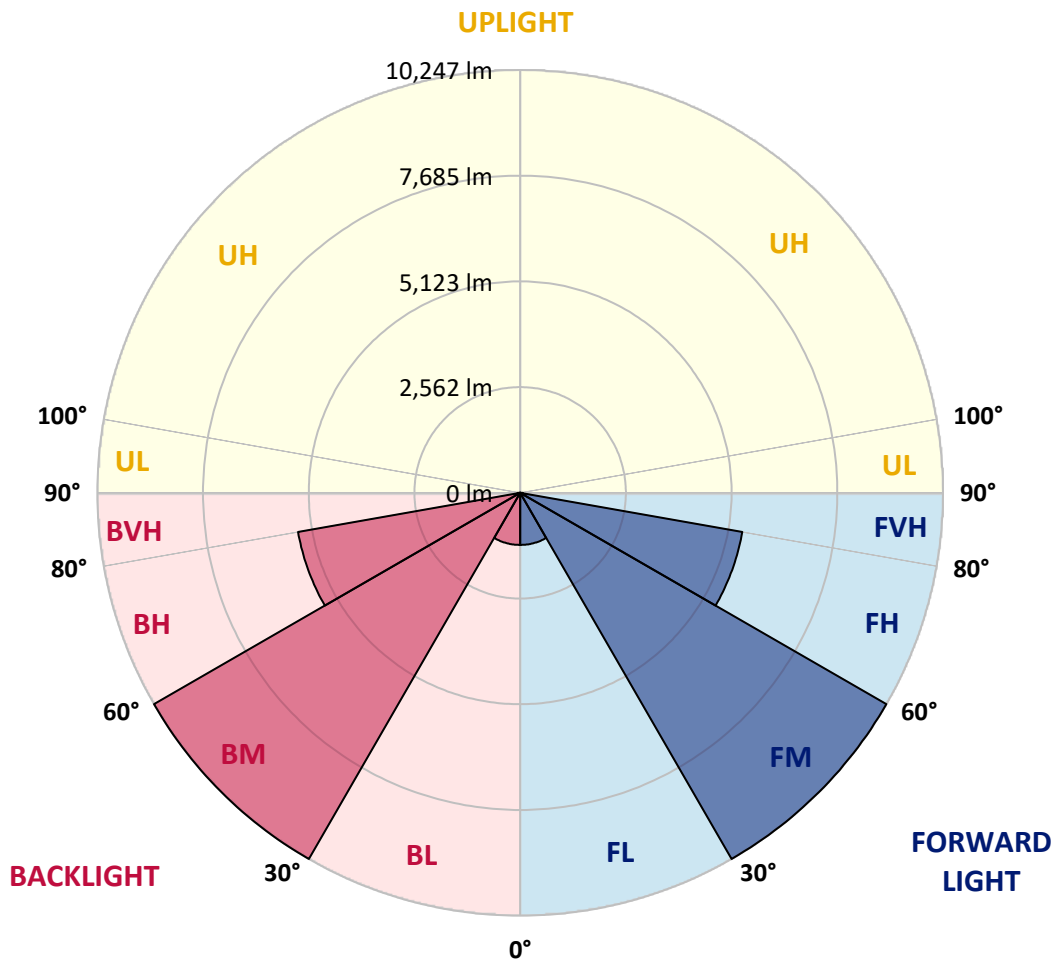
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1262.7	3.7			
FM	(30°-60°)	10246.5	30.1			
FH	(60°-80°)	5465.3	16.0			G3/7500
FVH	(80°-90°)	65.0	0.2			G1/100
BL	(0°-30°)	1262.7	3.7	B3/2500		
BM	(30°-60°)	10246.5	30.1	B5		
BH	(60°-80°)	5465.3	16.0	B5		G3/7500
BVH	(80°-90°)	65.0	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°	2294.0	2294.0	2294.0	2294.0	2294.0	2294.0	2294.0	2294.0	2294.0	2294.0	2294.0
2.5°	2309.8	2304.9	2308.8	2311.8	2277.2	2286.1	2285.1	2308.8	2303.9	2314.8	2320.7
5°	2325.6	2317.7	2322.6	2330.5	2298.0	2309.8	2309.8	2331.5	2323.6	2334.5	2345.4
7.5°	2354.2	2346.3	2352.3	2362.1	2331.5	2344.4	2345.4	2371.0	2360.2	2369.0	2385.8
10°	2401.6	2396.7	2398.7	2407.5	2378.9	2394.7	2394.7	2422.3	2410.5	2420.4	2441.1
12.5°	2456.9	2454.9	2456.9	2468.7	2442.1	2457.9	2457.9	2484.5	2476.6	2488.5	2508.2
15°	2529.9	2528.0	2529.0	2544.7	2523.0	2537.8	2540.8	2568.4	2566.5	2579.3	2597.1
17.5°	2633.6	2633.6	2632.6	2646.4	2632.6	2647.4	2653.3	2682.9	2694.8	2710.6	2721.4
20°	2791.5	2782.6	2777.7	2784.6	2773.8	2789.5	2799.4	2847.8	2867.5	2892.2	2901.1
22.5°	2997.8	2986.0	2970.2	2963.3	2948.5	2969.2	2988.9	3058.0	3086.7	3127.1	3137.0
25°	3282.1	3262.4	3232.8	3205.1	3171.6	3201.2	3237.7	3332.5	3391.7	3445.0	3452.9
27.5°	3671.0	3641.4	3596.0	3542.7	3483.5	3520.0	3573.3	3711.5	3792.4	3877.3	3890.2
30°	4172.5	4167.5	4096.5	4001.7	3922.7	3943.5	4009.6	4180.4	4308.7	4396.5	4421.2
32.5°	4841.7	4836.8	4717.4	4557.4	4444.9	4458.7	4519.9	4709.5	4869.4	5012.5	5017.4
35°	5639.3	5623.5	5455.7	5234.6	5054.0	5038.2	5098.4	5286.9	5505.1	5671.9	5688.7
37.5°	6550.4	6524.7	6331.3	5996.6	5717.3	5652.1	5694.6	5931.5	6184.2	6372.7	6391.5
40°	7442.7	7423.0	7207.8	6893.9	6485.3	6320.4	6323.4	6626.4	6903.8	7078.5	7117.0
42.5°	8302.5	8318.3	8112.0	7792.2	7364.8	7070.6	7074.6	7368.7	7656.0	7837.6	7887.9
45°	9185.0	9171.2	8977.7	8703.3	8309.4	7983.7	7873.1	8167.3	8452.5	8601.6	8655.9
47.5°	9907.5	9882.9	9752.6	9607.5	9315.3	8994.5	8800.0	9004.3	9200.8	9301.5	9356.7
50°	10537.3	10517.6	10504.7	10443.5	10378.4	10171.1	9851.3	9838.4	9880.9	9902.6	9952.9
52.5°	11070.3	11069.3	11138.4	11288.5	11449.4	11521.4	10967.7	10609.4	10463.3	10355.7	10374.4
55°	11472.1	11467.2	11663.6	12065.3	12633.9	12959.6	12142.3	11276.6	10891.7	10683.4	10681.4
57.5°	11678.4	11687.3	12086.1	12813.6	13867.8	14312.0	13271.6	11889.6	11230.2	10913.4	10909.4
60°	11133.5	11171.0	11952.8	13277.5	14958.5	15538.9	14196.5	12017.0	10863.0	10331.0	10317.2
61°	10543.2	10684.4	11423.7	13171.9	15304.0	15802.5	14240.9	11701.1	10322.1	9734.8	9722.0
62.5°	9245.2	9377.5	10508.7	12908.3	15280.3	15526.1	13988.2	11133.5	9473.2	8818.8	8792.1
65°	6708.3	6864.3	8082.4	11436.5	13890.5	13744.4	12723.7	9830.5	7944.2	7207.8	7174.2
67.5°	3372.9	3572.3	4939.5	8299.5	11285.5	11562.9	10863.0	7783.3	5630.4	4251.4	4247.5
70°	871.6	956.5	1780.7	4365.0	8138.6	9056.6	8282.8	4509.1	2189.4	1320.7	1238.8
72.5°	243.8	255.7	483.7	1590.2	4628.5	6067.7	4490.3	1576.4	493.6	281.3	257.6
75°	171.8	174.7	192.5	402.7	1748.2	2832.0	1447.1	340.5	197.4	186.6	186.6
77.5°	153.0	155.0	166.8	217.2	366.2	636.7	277.4	220.1	173.7	167.8	165.8
80°	161.9	163.9	170.8	210.3	215.2	229.0	192.5	190.5	172.7	176.7	174.7
82.5°	173.7	177.7	186.6	215.2	184.6	185.6	157.9	156.9	153.0	173.7	174.7
85°	154.0	160.9	167.8	188.5	152.0	124.4	129.3	102.7	109.6	130.3	125.4
87.5°	85.9	84.9	81.9	85.9	77.0	62.2	52.3	47.4	43.4	49.4	48.4
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)