

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: P510792

Luminaire Tested: **CST-CA8-330-740-U-T5**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510792  
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-CA8-330-740-U-T5  
Description: CELESTEON HIGH MAST LUMINAIRE  
Light Source: (8) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 50495.9 lumens  
Efficiency: N/A  
Efficacy: 152.3 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5

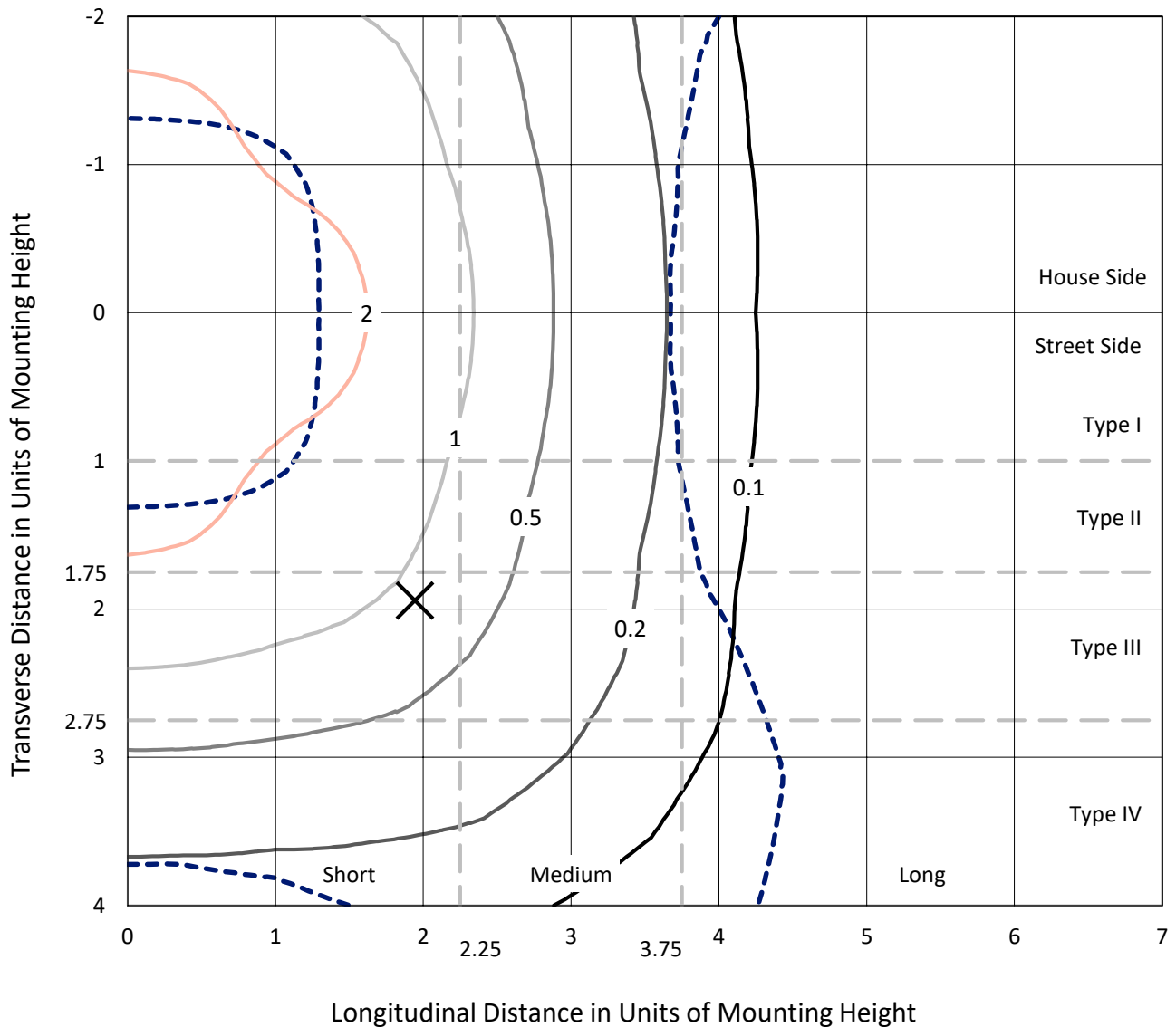
Input Watts (W): 331.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

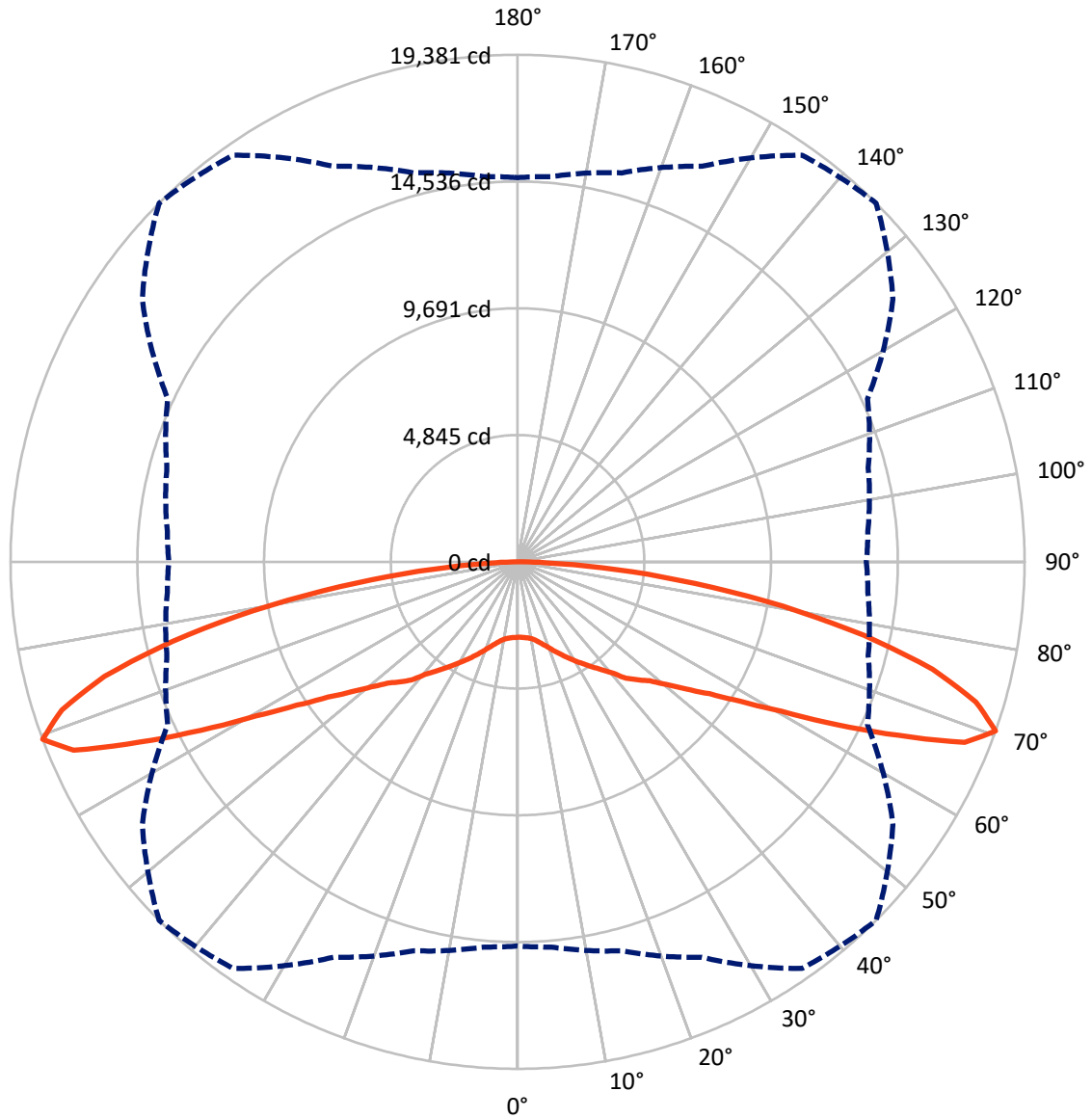
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.3 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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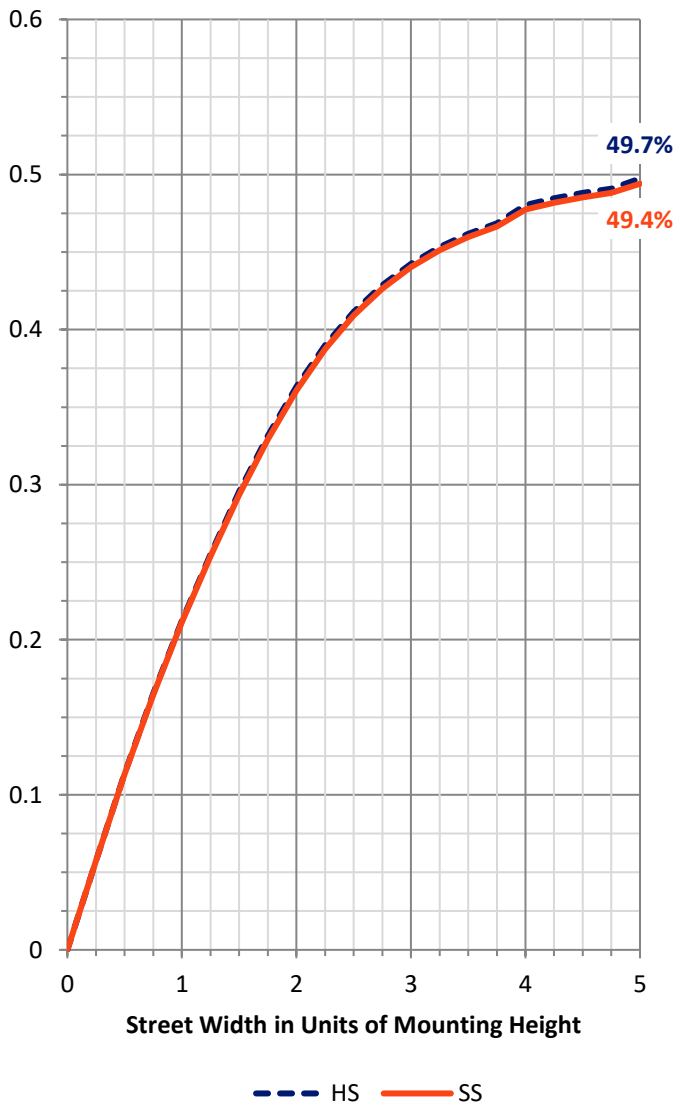
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	25247.9	0.0	25247.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	25247.9	0.0	25247.9
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	50495.9	0.0	50495.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	280.5	0.6
10°-20°	913.6	1.8
20°-30°	1808.6	3.6
30°-40°	3128.7	6.2
40°-50°	5205.6	10.3
50°-60°	9079.4	18.0
60°-70°	15030.5	29.8
70°-80°	12596.8	24.9
80°-90°	2452.2	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°	50495.9	100.0
0°-180°	50495.9	100.0

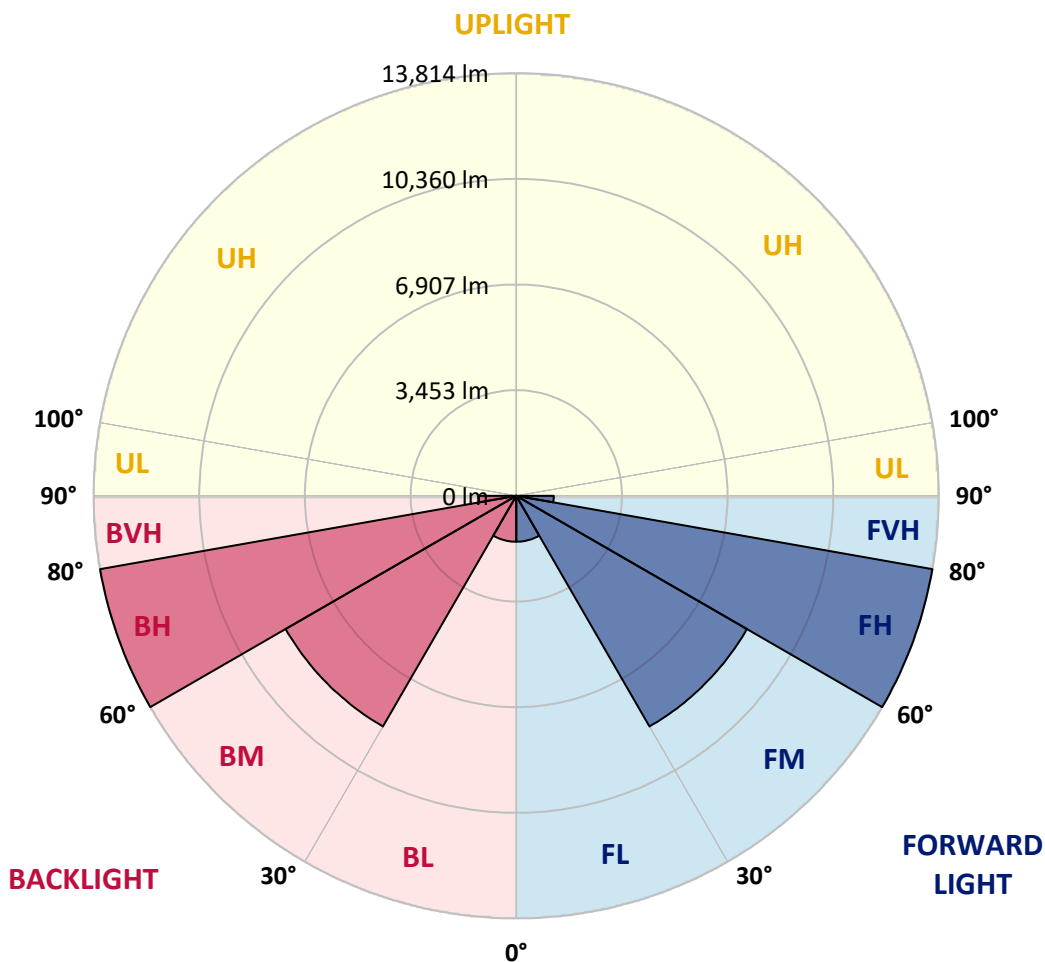


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1501.3	3.0			
FM (30°-60°)	8706.8	17.2			
FH (60°-80°)	13813.7	27.4			G5
FVH (80°-90°)	1226.1	2.4			G5
BL (0°-30°)	1501.3	3.0	B3/2500		
BM (30°-60°)	8706.8	17.2	B5		
BH (60°-80°)	13813.7	27.4	B5		G5
BVH (80°-90°)	1226.1	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°	2886	2886	2886	2886	2886	2886	2886	2886	2886	2886	2886
2.5°	2904	2895	2892	2889	2891	2890	2895	2897	2899	2908	2903
5°	2922	2915	2914	2910	2909	2909	2916	2917	2918	2924	2918
7.5°	2955	2948	2946	2944	2943	2939	2944	2942	2944	2947	2940
10°	3007	2999	2997	2992	2995	2989	2993	2988	2979	2981	2971
12.5°	3078	3071	3074	3073	3085	3082	3074	3064	3049	3039	3028
15°	3183	3172	3180	3188	3200	3205	3199	3172	3150	3134	3125
17.5°	3311	3293	3309	3325	3351	3356	3334	3301	3277	3270	3255
20°	3460	3457	3458	3484	3524	3531	3502	3463	3439	3440	3423
22.5°	3640	3624	3629	3655	3712	3731	3683	3640	3625	3629	3627
25°	3846	3831	3824	3836	3910	3943	3897	3847	3840	3849	3835
27.5°	4072	4058	4050	4056	4114	4176	4125	4083	4082	4095	4087
30°	4329	4308	4299	4306	4346	4406	4365	4340	4361	4370	4367
32.5°	4589	4579	4576	4574	4623	4657	4637	4642	4659	4700	4687
35°	4885	4856	4864	4870	4934	4937	4939	4948	4993	5051	5017
37.5°	5193	5186	5191	5174	5221	5240	5268	5298	5369	5436	5422
40°	5574	5561	5566	5546	5569	5584	5641	5706	5797	5869	5836
42.5°	6079	6046	6046	6052	6100	6084	6206	6224	6337	6398	6379
45°	6673	6661	6598	6492	6432	6431	6529	6675	6862	6989	6988
47.5°	7428	7391	7240	6985	6833	6796	6899	7183	7527	7725	7722
50°	8418	8371	8142	7746	7450	7359	7524	7892	8355	8619	8641
52.5°	9526	9530	9271	8672	8234	8070	8245	8771	9348	9710	9753
55°	10813	10782	10537	9858	9255	8903	9168	9865	10528	10804	10880
57.5°	12153	12032	11844	11209	10504	10054	10372	11054	11689	12041	12029
60°	13341	13261	13153	12647	12106	11592	11837	12414	12958	13171	13180
62.5°	14639	14572	14475	14198	13900	13709	13487	13754	14179	14412	14488
65°	15913	15889	15945	15903	16029	16001	15469	15301	15308	15242	15208
67.5°	15838	15829	16159	16817	18073	18429	17064	15544	14859	14685	14660
70°	14683	14780	15391	16679	18971	19381	17512	14753	13877	13441	13333
72.5°	12461	12651	13588	15485	18225	18319	16386	13563	12273	11753	11676
75°	9615	9639	10598	13009	16265	16383	14617	11376	10107	9460	9440
77.5°	5856	6197	7596	9754	12930	13544	12225	9061	7552	6979	6659
80°	2873	3029	4037	6167	9242	10271	9072	6267	4658	3931	3851
82.5°	1308	1391	1910	3224	5577	6852	5599	3589	2487	1945	1927
85°	508	505	773	1353	2670	3794	2835	1712	1138	846	798
87.5°	148	158	227	444	791	1066	874	592	350	225	207
90°	0	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)