

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: P638419

Luminaire Tested: **IFLD-S-SA2A-740-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638419  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2A-740-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (32) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6804.5 lumens  
Efficiency: N/A  
Efficacy: 106.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G1

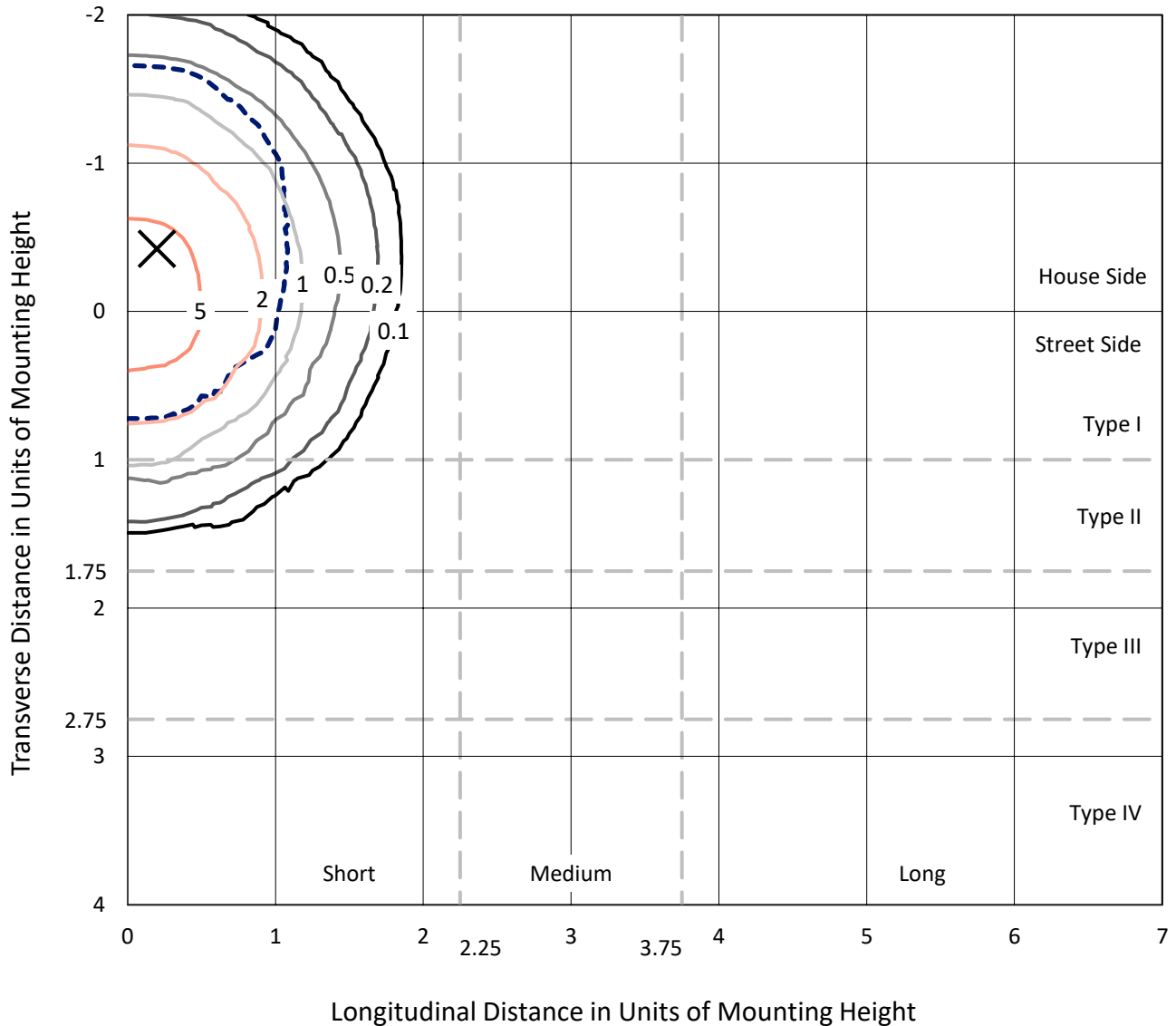
Input Watts (W): 63.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

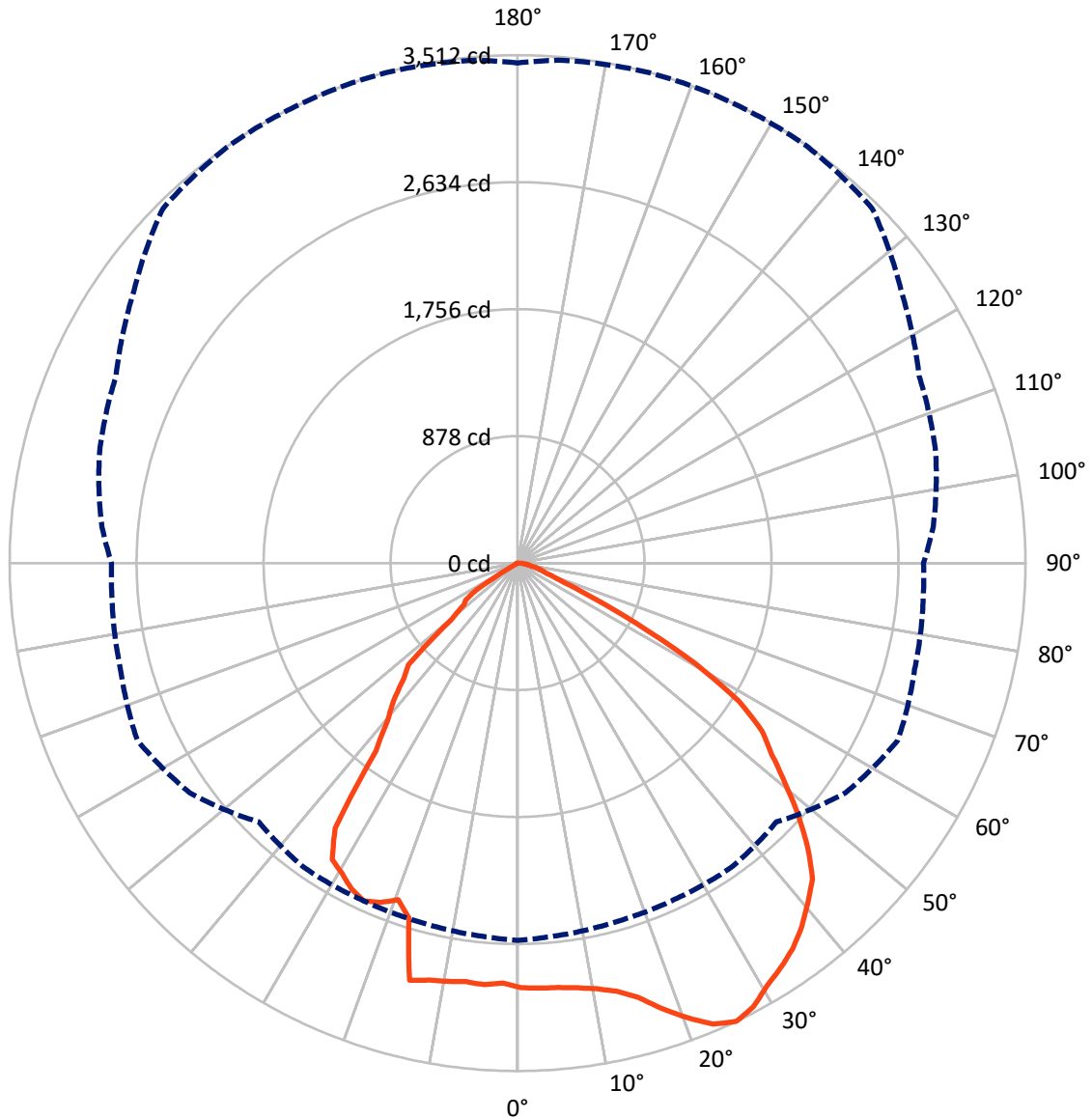
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.3 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral      - - - Horizontal Cone Through 25-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4212.7	0.0	4212.7
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	2591.8	0.0	2591.8
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	6804.5	0.0	6804.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	281.7	4.1
10°-20°	860.1	12.6
20°-30°	1359.7	20.0
30°-40°	1535.9	22.6
40°-50°	1438.4	21.1
50°-60°	991.7	14.6
60°-70°	266.4	3.9
70°-80°	55.5	0.8
80°-90°	15.0	0.2
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°	6804.5	100.0
0°-180°	6804.5	100.0



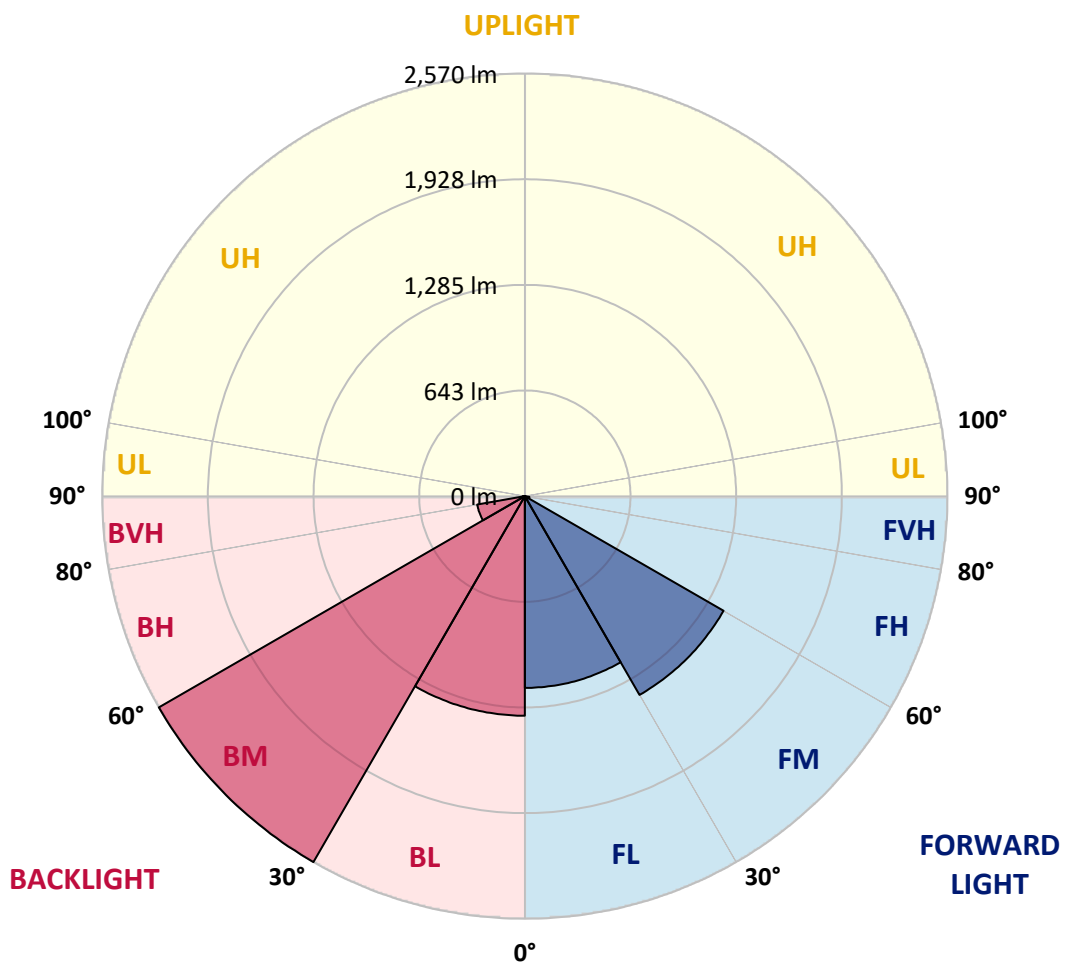
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1166.1	17.1			
FM	(30°-60°)	1395.7	20.5			
FH	(60°-80°)	28.0	0.4			G0/660
FVH	(80°-90°)	2.0	0.0			G0/10
BL	(0°-30°)	1335.4	19.6	B3/2500		
BM	(30°-60°)	2570.3	37.8	B3/5000		
BH	(60°-80°)	294.0	4.3	B1/500		G1/500
BVH	(80°-90°)	13.0	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2936	2936	2936	2936	2936	2936	2936	2936	2936	2936
2.5°	2949	2930	2912	2906	2931	2958	2941	2942	2936	2947
5°	2971	2945	2933	2924	2928	2956	2932	2941	2931	2944
7.5°	2963	2945	2933	2916	2929	2962	2939	2940	2935	2947
10°	2958	2945	2930	2932	2947	2975	2957	2967	2960	2967
12.5°	2970	2956	2948	2948	2961	2993	2984	2993	2990	2996
15°	2857	2870	2946	2980	3006	3038	3034	3043	3045	3054
17.5°	2410	2397	2391	2566	3031	3130	3127	3126	3116	3109
20°	2469	2464	2457	2470	2522	3178	3198	3075	3039	3036
22.5°	2563	2555	2529	2530	2546	2763	3099	2987	2975	2968
25°	2609	2593	2572	2566	2571	2531	2768	2901	2842	2815
27.5°	2528	2529	2512	2528	2509	2329	2228	2733	2731	2719
30°	2467	2464	2444	2464	2333	2132	2089	2549	2528	2512
32.5°	2280	2282	2340	2418	2203	2044	1914	2277	2476	2467
35°	1631	1635	1841	2226	2006	1869	1859	1968	2394	2398
37.5°	1570	1570	1565	1628	1851	1798	1818	1807	2193	2203
40°	1526	1517	1510	1411	1287	1748	1762	1712	2073	2075
42.5°	1473	1463	1465	1282	1152	1624	1585	1518	1873	1875
45°	1376	1393	1405	1122	1112	1160	1462	1420	1738	1775
47.5°	700	715	1097	1032	1055	1031	1235	1236	1446	1569
50°	635	631	632	602	974	834	893	1133	1158	1334
52.5°	592	591	530	471	612	734	648	820	861	1130
55°	438	470	418	443	383	588	585	740	754	906
57.5°	4	5	12	337	265	294	404	505	530	706
60°	1	2	5	10	172	181	270	292	329	421
62.5°	0	0	2	5	9	74	86	94	145	215
65°	0	0	1	3	5	12	21	44	63	78
67.5°	0	0	1	2	4	6	12	17	27	46
70°	0	0	1	2	3	5	8	12	16	23
72.5°	0	0	1	2	2	6	6	9	12	15
75°	0	0	1	1	2	4	6	7	8	12
77.5°	0	0	1	2	3	4	5	8	7	7
80°	0	0	1	3	3	5	6	8	5	5
82.5°	0	0	1	4	3	10	10	11	4	4
85°	0	0	3	2	6	10	9	6	5	3
87.5°	0	0	1	1	2	3	7	6	2	2
90°	0	0	0	0	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
2936	0°	2936	2936	2936	2936	2936	2936	2936	2936	2936
2918	2.5°	2958	2945	2972	2969	2956	2950	2943	2937	2893
2920	5°	2959	2939	2972	2966	2964	2954	2948	2957	2917
2928	7.5°	2959	2939	2975	2977	2974	2966	2965	2971	2938
2942	10°	2979	2971	3001	3004	3000	2998	2993	2989	2954
2990	12.5°	3021	3005	3039	3048	3045	3050	3038	3044	3008
3039	15°	3072	3073	3099	3119	3117	3133	3115	3131	3105
3095	17.5°	3150	3161	3198	3228	3239	3251	3239	3244	3207
3033	20°	3068	3109	3287	3342	3365	3376	3356	3362	3325
2957	22.5°	2994	3047	3205	3377	3448	3470	3463	3462	3448
2807	25°	2885	2992	3063	3245	3468	3508	3512	3511	3490
2715	27.5°	2751	2775	2959	3070	3328	3480	3474	3445	3417
2524	30°	2580	2689	2772	2949	3147	3394	3394	3372	3343
2456	32.5°	2493	2634	2711	2775	2944	3298	3338	3315	3292
2403	35°	2447	2468	2648	2706	2849	3113	3275	3252	3235
2262	37.5°	2346	2395	2479	2634	2678	2962	3191	3179	3159
2079	40°	2121	2252	2381	2528	2574	2768	3089	3094	3067
1884	42.5°	1988	2077	2279	2378	2502	2643	2990	2998	2979
1785	45°	1832	1931	2073	2253	2422	2471	2815	2899	2883
1588	47.5°	1689	1769	1943	2125	2312	2305	2614	2772	2750
1437	50°	1486	1626	1708	1875	2154	2173	2400	2623	2605
1221	52.5°	1253	1429	1586	1739	1994	2039	2201	2471	2459
933	55°	1095	1223	1400	1523	1800	1920	2052	2326	2320
767	57.5°	779	1026	1172	1344	1490	1707	1805	2031	1975
425	60°	528	644	822	1007	1105	1322	1413	1594	1579
254	62.5°	279	386	513	606	677	888	926	1121	1116
102	65°	123	163	278	326	399	497	530	600	583
50	67.5°	64	97	157	193	243	280	307	329	343
33	70°	39	71	97	134	167	197	218	248	266
17	72.5°	29	45	67	103	121	156	177	199	215
14	75°	16	30	54	81	97	127	146	161	166
8	77.5°	10	23	45	63	76	103	98	112	124
6	80°	7	17	35	52	53	66	78	90	98
4	82.5°	5	14	26	40	35	51	61	70	51
3	85°	4	10	13	24	20	36	31	30	20
2	87.5°	3	5	9	11	8	8	10	12	10
0	90°	0	0	0	0	0	0	0	0	0





180°  
2936  
2863  
2883  
2900  
2925  
2976  
3062  
3175  
3299  
3403  
**3458**  
3395  
3332  
3273  
3211  
3139  
3061  
2977  
2885  
2766  
2608  
2467  
2327  
1969  
1580  
1117  
576  
343  
267  
218  
163  
126  
99  
37  
20  
10  
0

(END OF REPORT)