

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: P1211562

Luminaire Tested: **ARCH4-40-750-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211562
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-40-750-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 355mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5511 lumens
Efficiency: N/A
Efficacy: 125.8 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

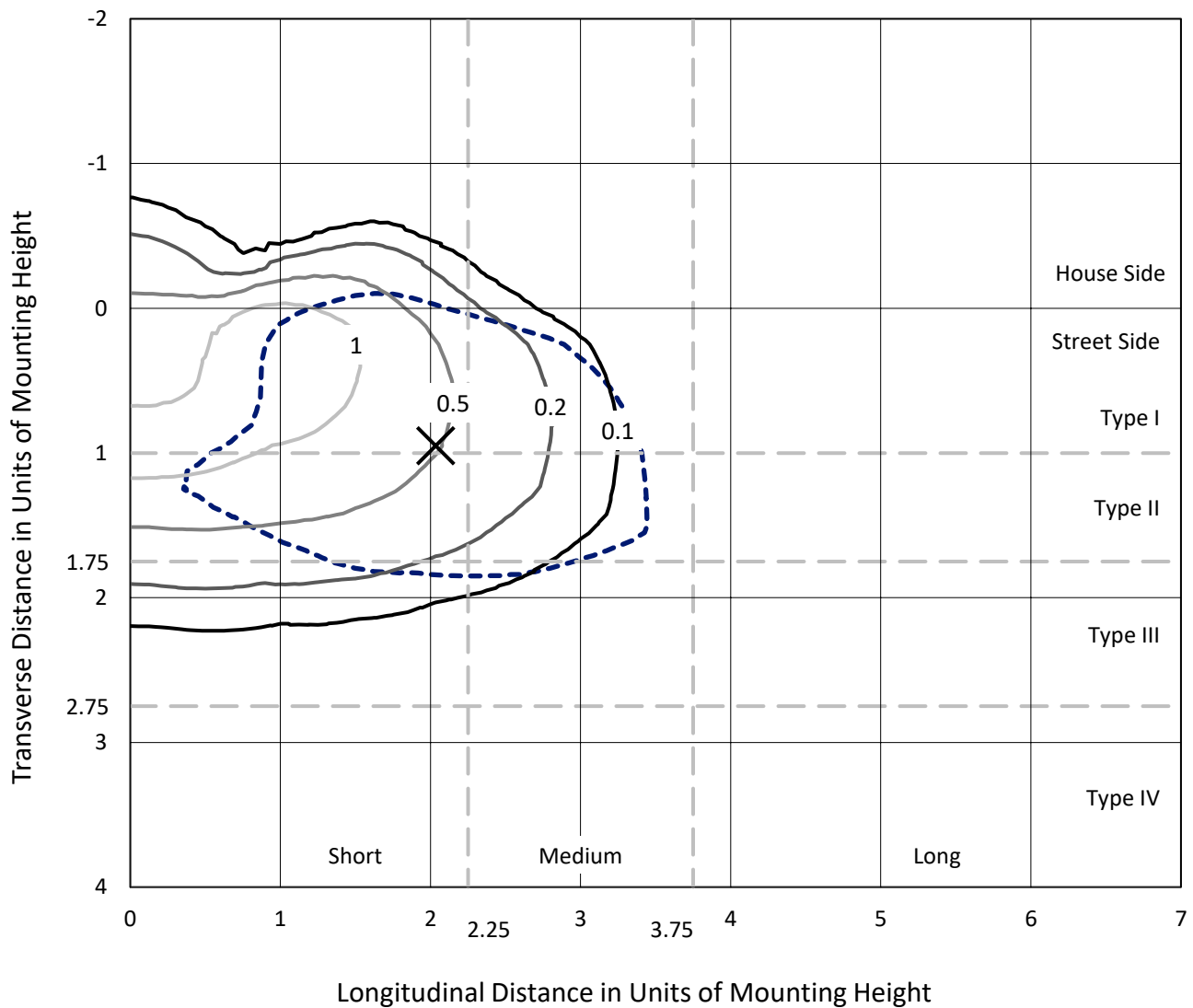
Input Watts (W): 43.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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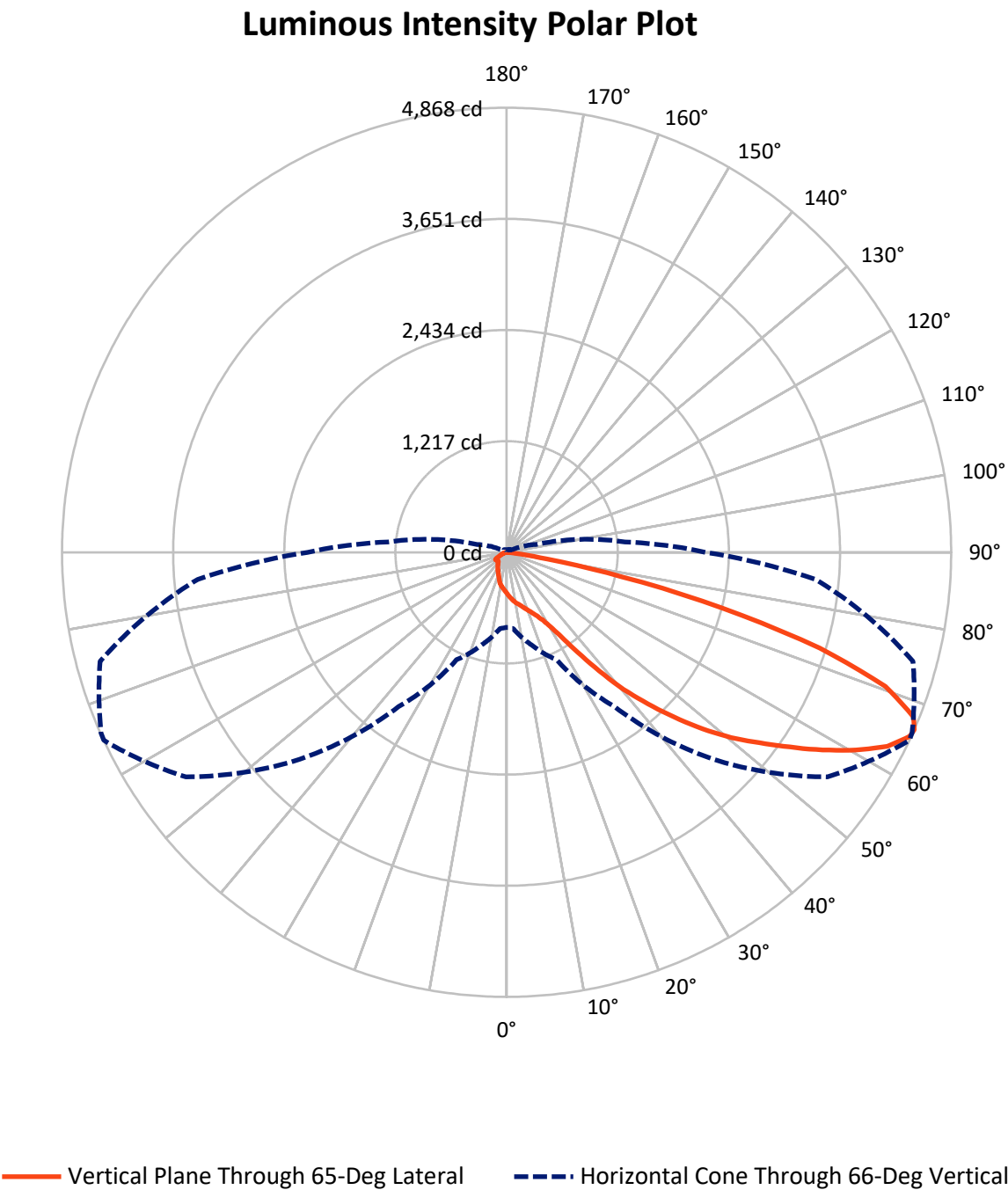
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
Type III - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	650.4	0.0	650.4
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	4860.6	0.0	4860.6
	% Fixture	88.2	0.0	88.2
Total	Lumens	5511.0	0.0	5511.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.6	0.8
10°-20°	126.0	2.3
20°-30°	230.6	4.2
30°-40°	468.6	8.5
40°-50°	989.6	18.0
50°-60°	1521.4	27.6
60°-70°	1531.4	27.8
70°-80°	572.2	10.4
80°-90°	28.6	0.5
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°	5511.0	100.0
0°-180°	5511.0	100.0

Coefficient of Utilization



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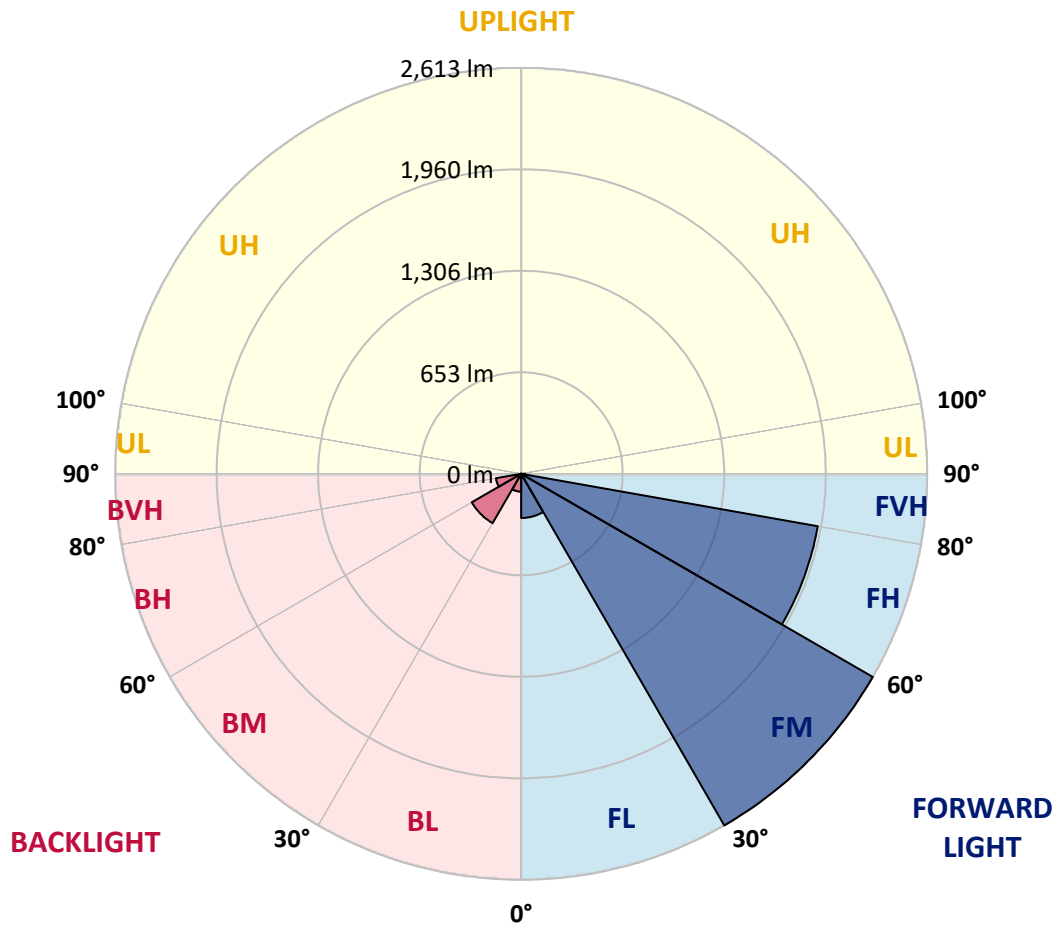
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	284.1	5.2			
FM	(30°-60°)	2612.9	47.4			
FH	(60°-80°)	1938.4	35.2			G2/5000
FVH	(80°-90°)	25.2	0.5			G1/100
BL	(0°-30°)	115.1	2.1	B1/500		
BM	(30°-60°)	366.7	6.7	B1/1000		
BH	(60°-80°)	165.2	3.0	B1/500		G1/500
BVH	(80°-90°)	3.4	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	449	449	449	449	449	449	449	449	449	449	449
2.5°	512	513	511	507	503	498	490	477	475	466	456
5°	547	549	546	545	543	536	525	506	504	486	463
7.5°	559	562	560	560	560	557	552	535	532	509	474
10°	568	570	569	573	576	574	571	561	558	535	489
12.5°	582	583	584	586	591	593	592	583	581	565	508
15°	595	595	596	605	612	616	617	610	608	595	532
17.5°	607	608	611	621	633	641	646	643	640	630	560
20°	625	627	630	644	656	669	679	678	677	670	593
22.5°	656	658	663	676	688	704	721	720	717	712	632
25°	703	703	706	717	732	751	767	770	767	764	681
27.5°	762	763	763	775	789	813	833	836	836	833	747
30°	844	841	839	849	864	899	934	940	937	942	840
32.5°	985	980	963	965	974	1022	1081	1102	1101	1110	990
35°	1180	1170	1145	1124	1123	1175	1265	1344	1343	1374	1218
37.5°	1400	1413	1366	1330	1319	1360	1476	1647	1656	1710	1517
40°	1694	1702	1642	1591	1539	1554	1707	1973	1989	2049	1816
42.5°	1950	1958	1923	1861	1795	1767	1940	2269	2282	2365	2124
45°	2124	2130	2142	2148	2073	2015	2225	2573	2589	2685	2425
47.5°	2260	2265	2289	2349	2334	2288	2515	2889	2893	3000	2718
50°	2323	2335	2394	2486	2552	2565	2830	3188	3199	3301	2995
52.5°	2253	2257	2406	2579	2712	2844	3146	3465	3497	3573	3244
55°	2017	2046	2272	2576	2838	3109	3484	3764	3793	3841	3463
57.5°	1743	1775	2050	2447	2892	3354	3797	4082	4102	4115	3664
60°	1506	1536	1819	2200	2838	3527	4088	4398	4415	4380	3765
62.5°	1215	1245	1530	1873	2626	3562	4304	4679	4686	4591	3703
65°	916	936	1174	1468	2255	3376	4353	4854	4847	4652	3517
66°	821	838	1048	1298	2062	3206	4287	4868	4861	4607	3395
67.5°	708	713	886	1062	1725	2845	4086	4804	4810	4483	3172
70°	553	552	652	739	1178	2024	3408	4401	4430	4015	2705
72.5°	354	342	400	452	686	1175	2485	3587	3636	3154	2015
75°	211	199	213	226	329	565	1461	2441	2488	2022	1199
77.5°	158	153	154	143	146	212	667	1290	1324	828	455
80°	121	108	101	106	96	84	248	444	465	196	95
82.5°	81	70	65	71	61	47	60	86	84	53	37
85°	42	36	36	36	31	23	26	35	35	28	22
87.5°	12	11	13	12	9	9	10	12	12	11	10
90°	0	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°	180°
0°	449	449	449	449	449	449	449	449	449	449	449
2.5°	448	444	433	425	417	410	402	400	396	397	395
5°	451	440	421	403	389	377	362	356	348	345	343
7.5°	455	439	411	386	362	338	314	300	291	287	284
10°	464	443	406	367	326	292	268	258	252	251	250
12.5°	476	449	401	343	289	257	242	239	238	238	237
15°	494	459	393	315	260	238	231	226	224	224	224
17.5°	512	471	381	286	240	226	219	216	214	215	214
20°	535	485	365	261	227	216	209	206	205	205	205
22.5°	561	501	345	242	216	206	199	196	194	195	195
25°	596	521	324	223	205	196	188	184	184	185	186
27.5°	641	545	303	211	195	186	177	173	174	176	176
30°	707	578	282	198	184	174	166	162	164	168	168
32.5°	801	632	264	183	168	157	149	146	151	159	159
35°	969	731	253	168	151	138	128	125	132	142	142
37.5°	1194	890	257	155	137	122	111	107	112	121	124
40°	1445	1082	292	144	124	109	98	94	97	101	102
42.5°	1696	1286	358	136	114	98	88	85	87	88	89
45°	1946	1488	441	131	105	89	79	79	80	80	80
47.5°	2183	1685	528	130	97	80	72	73	73	74	74
50°	2407	1861	616	133	90	72	66	66	66	67	66
52.5°	2594	2015	708	138	83	66	60	60	60	61	60
55°	2771	2155	802	145	77	61	55	53	53	54	53
57.5°	2915	2248	891	146	72	56	51	48	48	48	48
60°	2921	2194	917	128	66	51	46	42	43	43	43
62.5°	2730	1910	737	96	59	46	42	38	38	38	38
65°	2355	1486	432	76	51	41	37	34	34	34	33
66°	2179	1303	331	69	48	40	36	33	32	31	31
67.5°	1892	1030	207	61	44	37	33	30	29	28	28
70°	1425	654	101	47	38	32	29	26	25	24	23
72.5°	1000	383	53	36	31	28	25	22	21	20	20
75°	565	185	35	26	25	23	21	18	17	17	17
77.5°	214	64	24	19	20	18	15	15	14	15	14
80°	56	28	15	14	15	13	11	12	12	12	12
82.5°	30	16	9	10	9	9	7	8	9	8	9
85°	21	8	5	5	4	4	3	4	5	4	4
87.5°	11	3	3	3	3	2	1	0	1	1	1
90°	0	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)