

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: P799047

Luminaire Tested: **ARCH1-50-750-U-T3**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799047
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-50-750-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1470mA LIGHTSQUARE WITH 10 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6782 lumens
Efficiency: N/A
Efficacy: 128.0 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

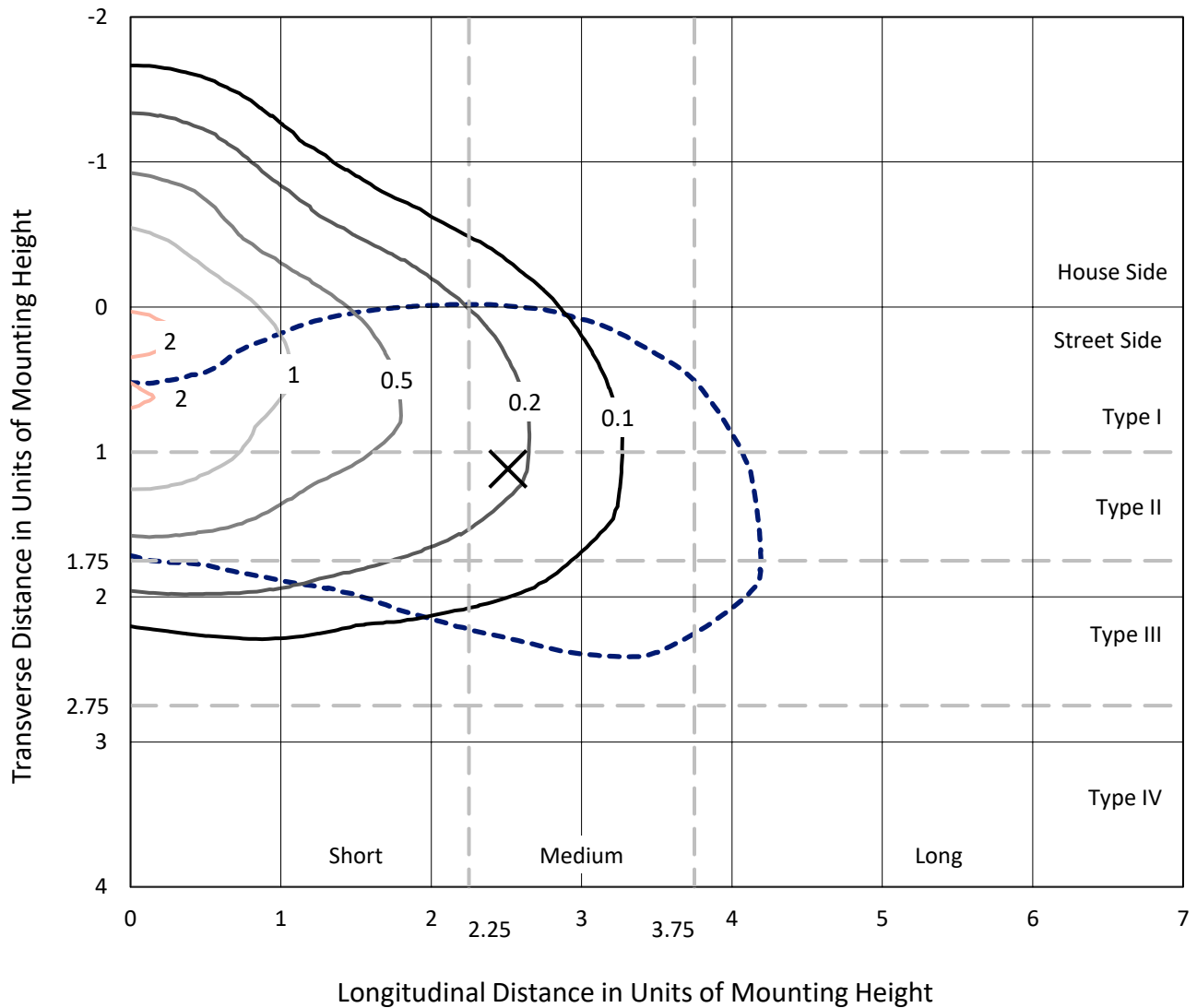
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P799047
 CATALOG NUMBER: ARCH1-50-750-U-T3

Iso-Footcandle Lines of Horizontal Illumination

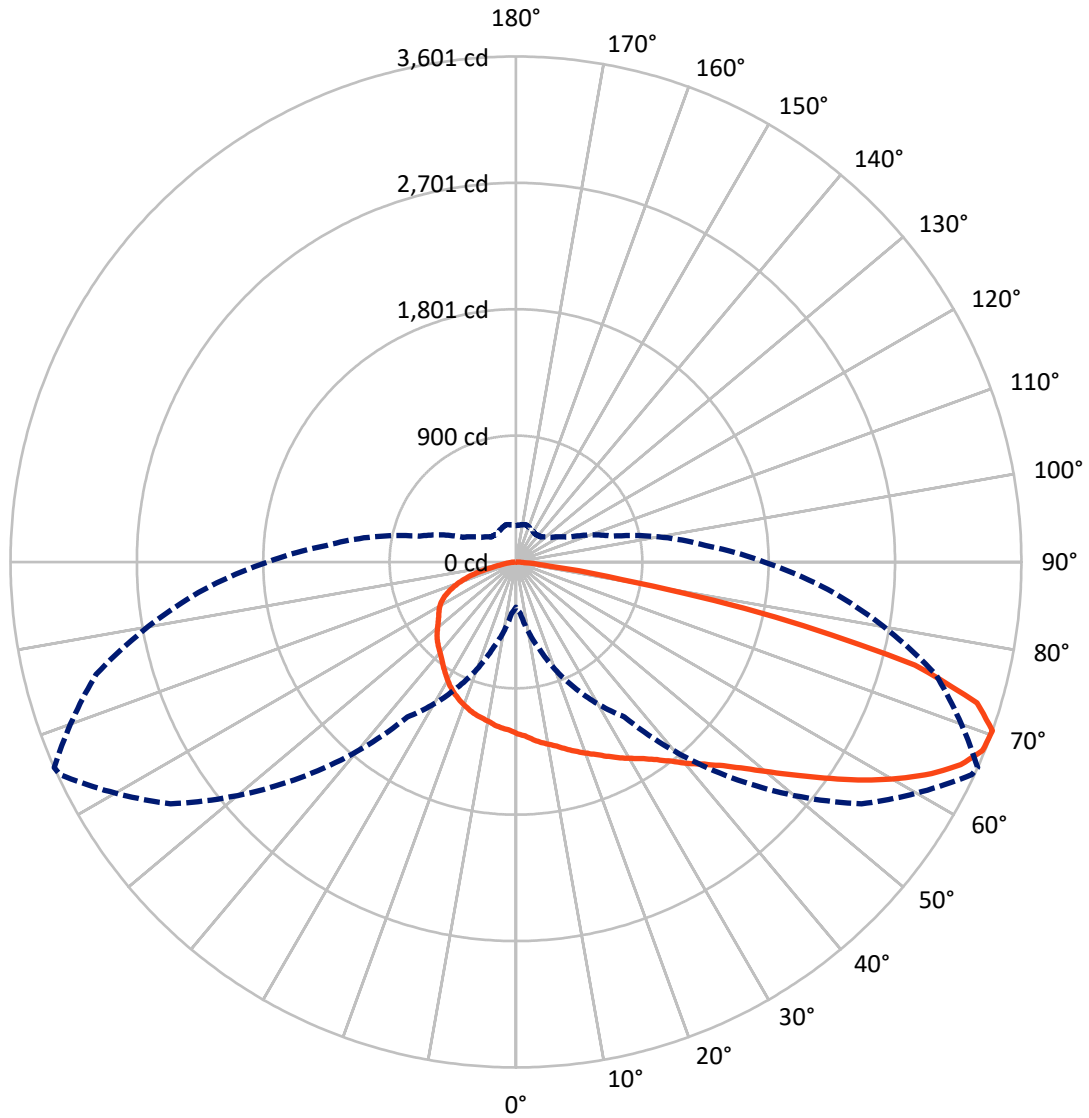
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type III - Medium - N/A

REPORT NUMBER: P799047
CATALOG NUMBER: ARCH1-50-750-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P799047
 CATALOG NUMBER: ARCH1-50-750-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1797.1	0.0	1797.1
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	4984.9	0.0	4984.9
	% Fixture	73.5	0.0	73.5
Total	Lumens	6782.0	0.0	6782.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.6	1.7
10°-20°	352.8	5.2
20°-30°	591.4	8.7
30°-40°	885.5	13.1
40°-50°	1184.0	17.5
50°-60°	1382.3	20.4
60°-70°	1374.5	20.3
70°-80°	813.7	12.0
80°-90°	80.2	1.2
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°	6782.0	100.0
0°-180°	6782.0	100.0

Coefficient of Utilization

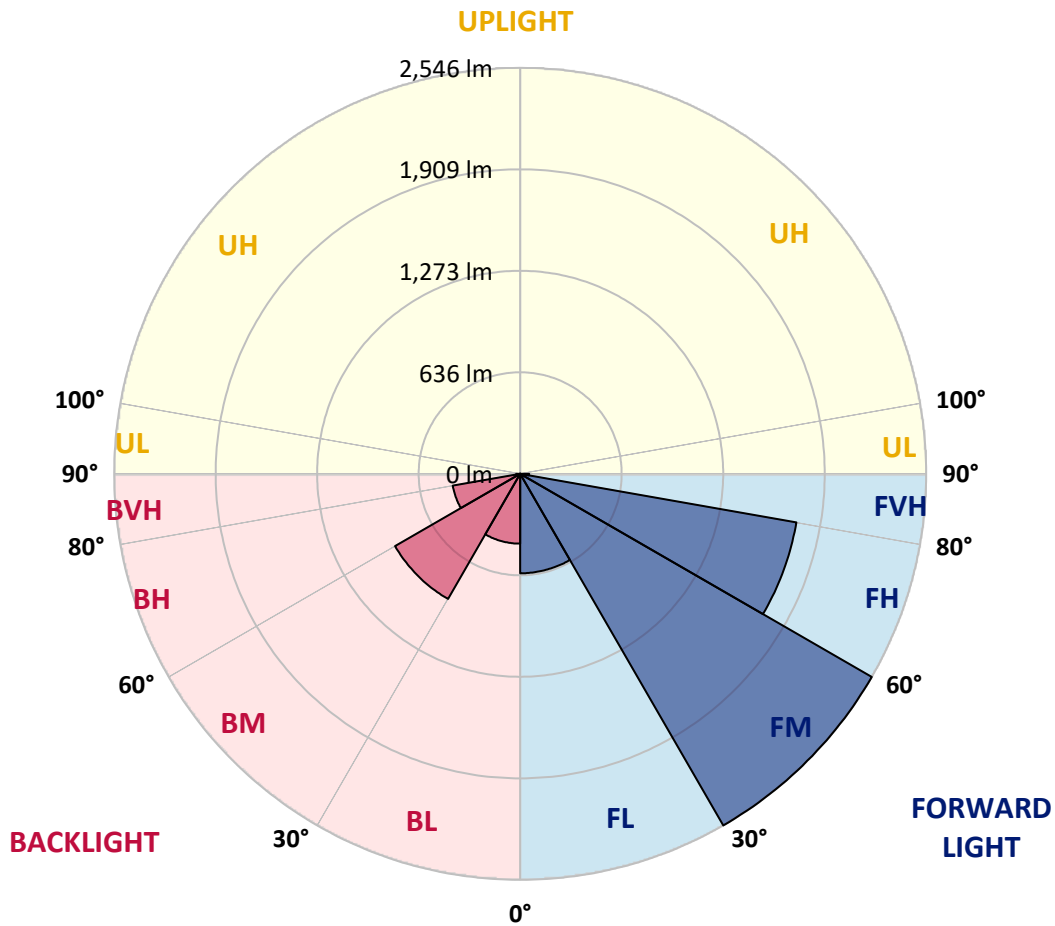


REPORT NUMBER: P799047
 CATALOG NUMBER: ARCH1-50-750-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	623.8	9.2			
FM (30°-60°)	2545.9	37.5			
FH (60°-80°)	1758.9	25.9			G1/1800
FVH (80°-90°)	56.4	0.8			G1/100
BL (0°-30°)	438.1	6.5	B1/500		
BM (30°-60°)	905.9	13.4	B1/1000		
BH (60°-80°)	429.3	6.3	B1/500		G1/500
BVH (80°-90°)	23.8	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type III Medium



REPORT NUMBER: P799047
 CATALOG NUMBER: ARCH1-50-750-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1224	1224	1224	1224	1224	1224	1224	1224	1224	1224	1224
2.5°	1269	1267	1266	1262	1253	1257	1248	1242	1241	1227	1219
5°	1321	1320	1318	1312	1298	1300	1285	1274	1271	1249	1232
7.5°	1365	1363	1362	1354	1339	1338	1320	1304	1299	1269	1243
10°	1399	1396	1398	1390	1374	1371	1348	1327	1322	1284	1248
12.5°	1428	1426	1429	1422	1409	1406	1383	1356	1350	1306	1259
15°	1460	1453	1459	1456	1447	1446	1425	1395	1387	1334	1276
17.5°	1477	1473	1480	1481	1477	1484	1464	1428	1421	1360	1291
20°	1489	1483	1491	1497	1500	1514	1498	1463	1455	1385	1305
22.5°	1530	1517	1518	1522	1524	1544	1534	1500	1492	1416	1322
25°	1633	1607	1590	1578	1564	1581	1575	1542	1535	1453	1343
27.5°	1793	1760	1726	1691	1636	1629	1619	1589	1581	1490	1364
30°	1975	1942	1902	1846	1743	1689	1666	1633	1624	1523	1384
32.5°	2156	2127	2087	2019	1872	1762	1713	1679	1670	1559	1408
35°	2297	2279	2253	2168	2000	1848	1781	1740	1730	1616	1452
37.5°	2411	2398	2376	2287	2093	1934	1859	1812	1801	1678	1499
40°	2579	2545	2527	2398	2174	2012	1947	1898	1886	1744	1537
42.5°	2722	2697	2675	2497	2251	2079	2030	1985	1969	1809	1578
45°	2746	2756	2745	2546	2373	2145	2114	2085	2070	1897	1640
47.5°	2747	2747	2682	2574	2524	2219	2204	2214	2198	2009	1714
50°	2675	2688	2654	2581	2564	2293	2314	2368	2352	2128	1794
52.5°	2526	2569	2568	2570	2506	2356	2430	2553	2526	2262	1879
55°	2263	2349	2426	2492	2456	2394	2572	2750	2722	2412	1965
57.5°	2038	2093	2189	2376	2397	2427	2705	2956	2931	2578	2055
60°	1781	1857	1953	2219	2325	2470	2851	3157	3133	2746	2142
62.5°	1386	1484	1676	1978	2220	2497	2966	3334	3323	2905	2220
65°	966	1053	1322	1682	2053	2485	3058	3492	3482	3035	2275
67.5°	564	665	969	1354	1758	2402	3088	3585	3585	3114	2290
70°	322	369	639	987	1348	2173	3004	3584	3601	3096	2228
72.5°	225	246	430	664	914	1758	2784	3411	3434	2926	2016
75°	175	190	303	453	576	1194	2303	2876	2937	2494	1630
77.5°	133	144	177	283	369	686	1520	1886	1890	1527	874
80°	97	108	118	173	196	321	574	788	766	739	473
82.5°	58	69	72	94	96	137	201	254	244	325	222
85°	25	35	37	43	41	56	80	67	60	69	48
87.5°	6	10	10	11	9	14	15	11	10	12	12
90°	0	0	0	0	0	0	0	0	0	0	0

REPORT NUMBER: P799047
 CATALOG NUMBER: ARCH1-50-750-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1224	1224	1224	1224	1224	1224	1224	1224	1224	1224	1224
2.5°	1217	1214	1215	1198	1193	1188	1185	1183	1181	1184	1187
5°	1226	1219	1211	1186	1176	1165	1157	1150	1147	1147	1150
7.5°	1233	1221	1204	1171	1153	1138	1125	1116	1111	1111	1114
10°	1234	1217	1190	1150	1126	1104	1089	1079	1072	1072	1074
12.5°	1240	1217	1182	1134	1104	1077	1059	1044	1041	1041	1043
15°	1250	1222	1177	1120	1084	1053	1033	1017	1011	1015	1016
17.5°	1259	1225	1168	1102	1059	1025	1003	989	981	990	990
20°	1265	1225	1155	1079	1032	994	973	956	950	961	962
22.5°	1274	1224	1141	1056	1003	963	942	929	926	938	942
25°	1284	1226	1126	1030	971	932	916	910	912	927	932
27.5°	1295	1230	1111	1001	936	901	892	895	903	922	928
30°	1305	1231	1090	967	896	863	867	880	892	911	918
32.5°	1318	1232	1068	930	853	829	847	868	880	898	906
35°	1350	1249	1051	894	813	800	830	857	864	880	887
37.5°	1387	1277	1042	857	774	771	809	836	838	848	855
40°	1410	1289	1032	826	739	741	780	801	797	804	809
42.5°	1433	1293	1011	800	706	708	738	753	755	770	777
45°	1472	1304	988	776	676	669	687	707	733	762	770
47.5°	1524	1327	964	747	647	624	631	666	693	720	725
50°	1577	1350	942	712	618	576	579	611	633	654	657
52.5°	1629	1370	923	679	585	519	531	564	579	589	592
55°	1681	1387	906	651	547	474	485	516	531	536	538
57.5°	1735	1407	893	627	504	434	441	463	477	483	481
60°	1780	1424	886	602	461	397	395	415	435	441	439
62.5°	1815	1435	875	570	423	360	350	376	397	401	404
65°	1834	1436	848	529	384	320	313	339	352	356	356
67.5°	1831	1420	795	474	348	284	278	294	313	316	313
70°	1769	1354	710	416	305	252	241	257	275	264	259
72.5°	1593	1183	585	352	257	212	207	223	224	226	221
75°	1257	881	438	274	208	178	177	174	178	186	180
77.5°	660	440	237	168	151	143	136	135	147	152	146
80°	358	247	136	101	92	93	102	100	113	116	111
82.5°	156	117	67	61	61	60	63	70	84	84	67
85°	34	29	26	30	34	34	34	34	24	13	9
87.5°	11	11	11	12	13	13	11	8	5	1	0
90°	0	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)