

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: METALUX

Report Number: P232574

Luminaire Tested: **4SKB1-LD5-7-W-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232574
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1709-317-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SKB1-LD5-7-W-UNV-L840-CD1-U
Description: METALUX SKYBAR 4' WAVESTREAM STRIP
WITH WIDE LENS
Light Source: (238) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6953.1 lumens
Efficiency: N/A
Efficacy: 131.9 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.48 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.29')
CIE Type: Semi-Direct

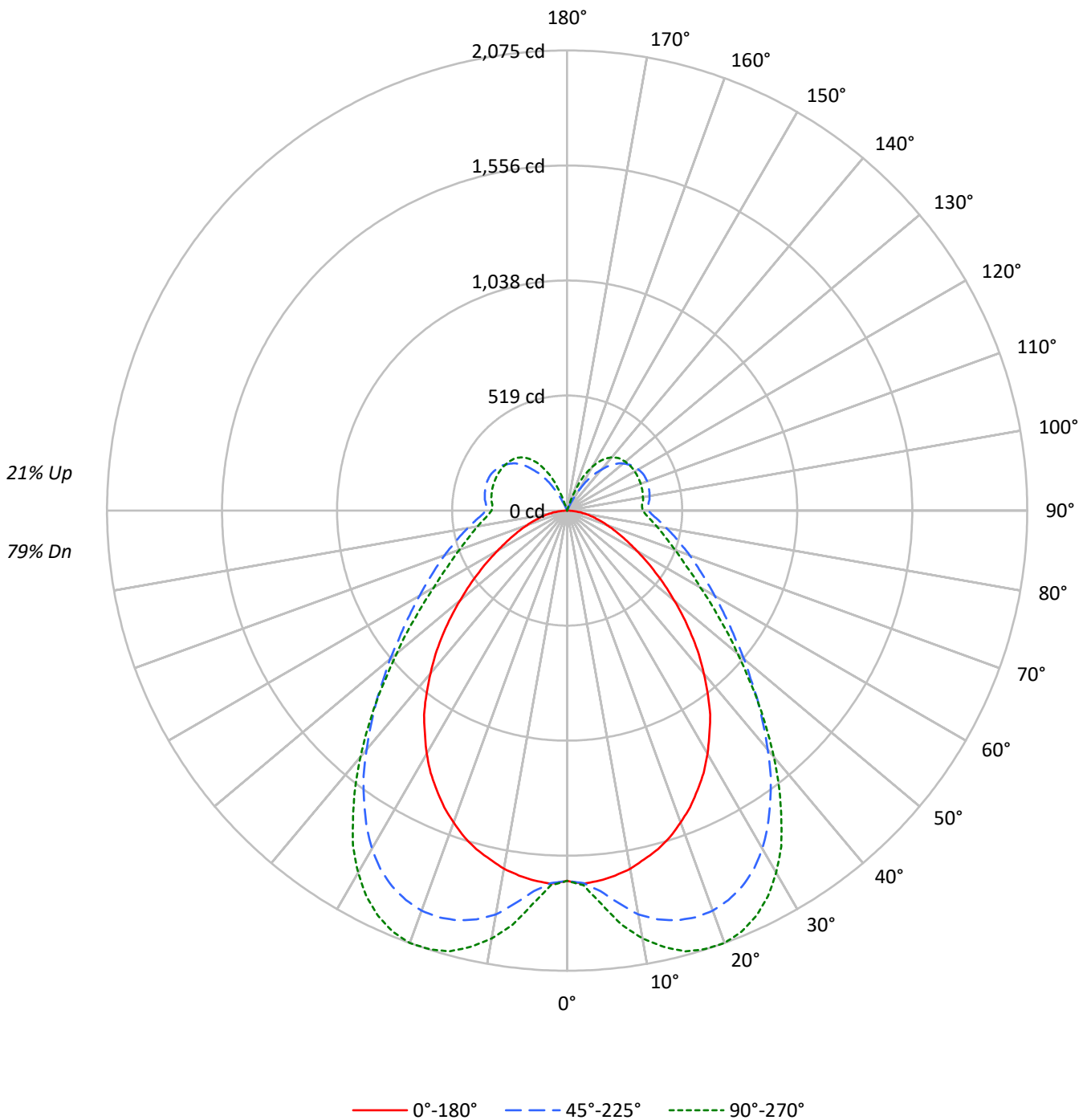
Input Watts (W): 52.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	114	114	114	114	109	109	109	109	99	99	99	91	91	91	83	83	83	79
1	103	97	93	88	98	93	89	85	85	82	78	77	75	72	70	68	67	63
2	93	85	78	72	89	81	75	69	74	69	64	68	63	60	62	58	55	52
3	85	74	66	60	81	71	64	58	65	59	54	60	55	51	55	51	47	44
4	78	66	57	51	74	63	55	49	58	51	46	53	48	43	49	44	41	38
5	72	59	50	44	68	57	49	42	52	45	40	48	42	38	44	39	36	33
6	66	53	44	38	63	51	43	37	47	40	35	44	38	33	40	35	31	29
7	61	48	40	34	58	46	38	33	43	36	31	40	34	30	37	32	28	26
8	57	44	36	30	54	42	35	29	39	33	28	36	31	26	34	29	25	23
9	53	40	32	27	51	39	31	26	36	30	25	34	28	24	31	26	23	21
10	50	37	29	24	48	36	29	24	33	27	23	31	26	22	29	24	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17976	17976	17976
5°	17984	17281	17460
10°	17698	17513	17758
15°	17280	17262	17471
20°	16704	16673	16683
25°	15977	15756	15514
30°	15100	14532	13998
35°	14065	13004	12172
40°	12685	11392	10295
45°	11251	9864	8536
50°	9706	8534	7033
55°	8243	7417	5849
60°	6919	6574	4939
65°	5859	5917	4313
70°	5034	5429	3869
75°	4283	5014	3550
80°	3508	4713	3337
85°	2358	4528	3179



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.6	2.4
10°-20°	530.0	7.6
20°-30°	830.6	11.9
30°-40°	951.2	13.7
40°-50°	876.1	12.6
50°-60°	719.0	10.3
60°-70°	574.8	8.3
70°-80°	461.8	6.6
80°-90°	367.3	5.3
90°-100°	328.3	4.7
100°-110°	319.7	4.6
110°-120°	289.8	4.2
120°-130°	239.5	3.4
130°-140°	171.8	2.5
140°-150°	95.5	1.4
150°-160°	28.7	0.4
160°-170°	0.6	0.0
170°-180°	0.0	0.0
0°-30°	1529.2	22.0
0°-40°	2480.4	35.7
0°-60°	4075.4	58.6
0°-90°	5479.3	78.8
90°-120°	937.8	13.5
90°-150°	1444.5	20.8
90°-180°	1474.0	21.2
0°-180°	6953.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1670	1670	1670	1670	1670	
5°	1675	1692	1722	1781	1781	159
15°	1581	1741	1913	2033	2058	445
25°	1391	1656	1869	2001	2017	640
35°	1125	1399	1597	1691	1683	699
45°	793	1056	1216	1248	1215	612
55°	485	759	890	867	831	437
65°	266	557	669	623	593	267
75°	131	424	515	476	457	141
85°	35	321	404	379	369	38
90°	2	285	366	349	341	3
95°	1	283	368	349	339	1
105°	1	277	382	363	351	1
115°	1	250	381	370	353	1
125°	1	195	355	367	349	1
135°	1	71	295	343	333	1
145°	1	3	181	277	280	1
155°	1	1	28	129	162	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1670	1670	1670	1670	1670	1670	1670	1670	1670	1670	1670
2.5°	1684	1677	1672	1677	1679	1681	1686	1685	1686	1684	1681
5°	1675	1669	1667	1677	1687	1692	1699	1706	1712	1720	1722
7.5°	1660	1657	1659	1677	1693	1705	1715	1733	1751	1769	1786
10°	1640	1638	1647	1674	1700	1717	1734	1767	1798	1826	1850
12.5°	1610	1615	1630	1666	1707	1731	1758	1799	1832	1864	1888
15°	1581	1584	1613	1656	1704	1741	1769	1821	1855	1888	1913
17.5°	1543	1550	1582	1643	1702	1735	1769	1810	1851	1889	1923
20°	1497	1512	1555	1622	1689	1722	1752	1802	1844	1881	1920
22.5°	1448	1465	1513	1593	1662	1695	1724	1779	1822	1859	1901
25°	1391	1413	1470	1556	1622	1656	1687	1743	1788	1825	1869
27.5°	1333	1358	1420	1507	1575	1607	1639	1695	1740	1777	1823
30°	1266	1293	1363	1447	1514	1549	1578	1633	1682	1715	1761
32.5°	1194	1225	1300	1381	1448	1481	1510	1563	1607	1642	1684
35°	1125	1150	1226	1305	1369	1399	1433	1484	1523	1559	1597
37.5°	1042	1072	1149	1224	1288	1320	1348	1395	1431	1465	1508
40°	958	991	1071	1138	1204	1229	1257	1300	1334	1376	1407
42.5°	879	910	986	1054	1116	1141	1168	1213	1242	1278	1309
45°	793	825	906	970	1029	1056	1084	1121	1154	1183	1216
47.5°	711	749	827	887	947	972	996	1035	1068	1099	1122
50°	630	671	747	812	869	894	918	957	991	1018	1042
52.5°	556	599	677	745	796	822	846	884	918	943	959
55°	485	533	614	680	731	759	778	818	852	875	890
57.5°	423	476	553	621	674	699	722	760	792	814	826
60°	362	421	501	567	621	645	670	708	738	758	769
62.5°	311	373	456	520	575	599	621	659	688	708	717
65°	266	331	415	479	532	557	580	619	646	665	669
67.5°	227	293	378	441	496	519	542	581	607	623	626
70°	192	259	344	407	461	486	509	544	571	584	588
72.5°	160	230	312	377	431	454	476	513	538	550	549
75°	131	203	285	349	400	424	446	482	507	517	515
77.5°	106	180	259	321	373	397	417	453	476	487	485
80°	80	155	234	295	347	369	391	425	448	459	454
82.5°	58	132	211	271	322	345	365	400	422	431	428
85°	35	109	186	248	299	321	343	376	398	407	404
87.5°	15	88	165	227	278	300	321	354	375	384	381
90°	2	74	152	213	263	285	306	339	360	369	366
92.5°	1	71	148	209	259	282	302	336	358	366	365
95°	1	66	146	209	260	283	304	338	360	369	368
97.5°	1	59	143	208	261	285	306	342	365	375	374
100°	1	48	137	205	259	284	305	342	366	377	377
102.5°	1	33	130	200	257	281	303	341	366	378	380
105°	1	20	121	194	252	277	300	339	365	379	382
107.5°	1	13	110	187	247	273	296	336	363	379	383
110°	1	11	96	179	240	266	290	332	360	378	384



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	1	9	74	168	232	259	284	325	356	374	383
115°	1	7	48	155	222	250	275	318	349	370	381
117.5°	1	6	31	140	211	239	265	309	342	364	377
120°	1	5	13	120	197	227	253	297	332	356	371
122.5°	1	4	10	90	181	212	239	285	320	347	363
125°	1	4	8	58	161	195	224	271	308	336	355
127.5°	1	3	7	39	137	175	206	255	293	322	343
130°	1	3	6	17	102	150	184	236	276	307	330
132.5°	1	2	5	7	63	116	156	212	256	289	315
135°	1	2	4	6	42	71	122	185	230	265	295
137.5°	1	2	3	5	17	47	75	155	202	239	270
140°	1	2	3	4	5	22	51	118	171	211	241
142.5°	1	2	3	3	4	5	25	69	137	180	213
145°	1	1	2	3	3	3	4	47	89	146	181
147.5°	1	1	2	2	3	3	3	19	55	103	146
150°	1	1	2	2	2	2	2	2	28	56	99
152.5°	1	1	1	2	2	2	2	2	3	32	55
155°	1	1	1	1	1	1	1	1	1	3	28
157.5°	1	1	1	1	1	1	1	1	1	1	1
160°	1	1	1	1	1	1	1	1	1	1	1
162.5°	0	0	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0	0	0
167.5°	0	0	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0	0



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CATALOG NUMBER: 4SKB1-LD5-7-W-UNV-L840-CD1-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1670	1670	1670	1670	1670	1670	1670	1670	1670	1670
2.5°	1686	1695	1699	1703	1704	1705	1703	1702	1695	1691
5°	1736	1758	1767	1780	1781	1782	1788	1785	1786	1781
7.5°	1809	1841	1855	1872	1876	1881	1891	1892	1891	1884
10°	1877	1904	1925	1941	1947	1951	1963	1966	1964	1959
12.5°	1918	1953	1974	1997	2003	2009	2019	2024	2018	2015
15°	1953	1990	2007	2032	2033	2044	2061	2063	2060	2058
17.5°	1962	2000	2025	2047	2055	2062	2072	2080	2081	2073
20°	1960	1996	2026	2049	2058	2063	2076	2082	2079	2075
22.5°	1944	1980	2010	2030	2038	2046	2058	2063	2063	2055
25°	1911	1947	1973	1994	2001	2009	2021	2024	2022	2017
27.5°	1864	1896	1922	1940	1947	1954	1967	1970	1966	1961
30°	1795	1828	1854	1870	1876	1881	1889	1896	1890	1885
32.5°	1720	1750	1768	1783	1787	1791	1799	1802	1796	1797
35°	1632	1658	1679	1689	1691	1690	1694	1695	1696	1683
37.5°	1536	1559	1569	1583	1580	1585	1589	1585	1575	1570
40°	1433	1448	1465	1470	1467	1474	1472	1465	1454	1450
42.5°	1331	1348	1354	1358	1355	1356	1352	1350	1339	1330
45°	1234	1246	1249	1248	1248	1243	1238	1230	1220	1215
47.5°	1139	1147	1148	1143	1139	1133	1134	1120	1108	1102
50°	1051	1054	1051	1042	1040	1033	1029	1018	1007	1004
52.5°	972	971	965	955	951	944	937	927	916	916
55°	895	892	884	873	867	864	855	844	836	831
57.5°	828	822	812	802	794	786	780	772	762	760
60°	768	756	747	736	730	723	715	709	701	693
62.5°	712	702	690	679	673	667	659	650	645	643
65°	663	653	639	628	623	617	611	601	598	593
67.5°	619	606	593	583	578	576	570	564	557	553
70°	578	565	553	546	540	538	533	525	520	517
72.5°	539	528	518	508	504	503	499	493	488	485
75°	506	495	485	480	476	473	471	465	462	457
77.5°	477	464	455	450	447	445	443	440	436	433
80°	446	436	429	424	422	420	418	416	413	410
82.5°	420	411	405	401	401	399	398	396	393	389
85°	395	387	382	380	379	378	377	375	372	369
87.5°	374	368	363	362	362	361	360	359	356	353
90°	360	354	351	350	349	349	349	347	344	341
92.5°	358	352	349	347	347	347	347	345	342	338
95°	361	355	352	350	349	349	348	346	343	339
97.5°	368	362	358	355	354	354	353	351	348	345
100°	372	366	362	359	358	357	356	354	351	347
102.5°	375	369	364	362	361	360	358	356	353	349
105°	377	372	368	364	363	362	360	358	354	351
107.5°	380	375	370	367	365	364	362	360	356	352
110°	381	377	372	369	367	366	363	360	356	353



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	382	379	374	370	369	367	364	361	357	353
115°	382	379	375	371	370	368	365	361	357	353
117.5°	381	379	376	372	370	368	365	361	356	353
120°	378	378	375	372	370	368	364	360	356	352
122.5°	373	375	373	370	369	367	364	359	354	351
125°	366	371	370	368	367	365	362	358	353	349
127.5°	357	364	366	365	364	363	359	355	351	346
130°	346	355	359	359	359	358	356	352	347	343
132.5°	332	343	349	352	352	352	350	347	343	338
135°	316	330	338	342	343	343	343	341	337	333
137.5°	297	313	324	330	332	333	334	332	328	324
140°	269	292	306	314	316	319	321	319	316	313
142.5°	241	265	285	296	298	301	304	304	301	298
145°	211	235	256	274	277	280	284	286	283	280
147.5°	176	201	223	243	252	256	260	262	261	258
150°	139	166	187	207	216	228	233	234	233	230
152.5°	84	123	147	167	175	186	200	203	201	199
155°	47	64	90	120	129	139	156	163	162	162
157.5°	14	35	48	59	63	69	89	106	111	112
160°	1	1	12	24	30	36	46	52	53	54
162.5°	0	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0	0
167.5°	0	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)