

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: P236368

Luminaire Tested: **SKB2-LD5-9-N-UNV-L840-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236368
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-365-3)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: SKB2-LD5-9-N-UNV-L840-CD1-U
Description: METALUX SKYBAR LED WAVESTREAM LUMINAIRE
2 BLADES WITH NARROW DISTRIBUTION LENS, ALL BLADES VERTICAL
Light Source: (476) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

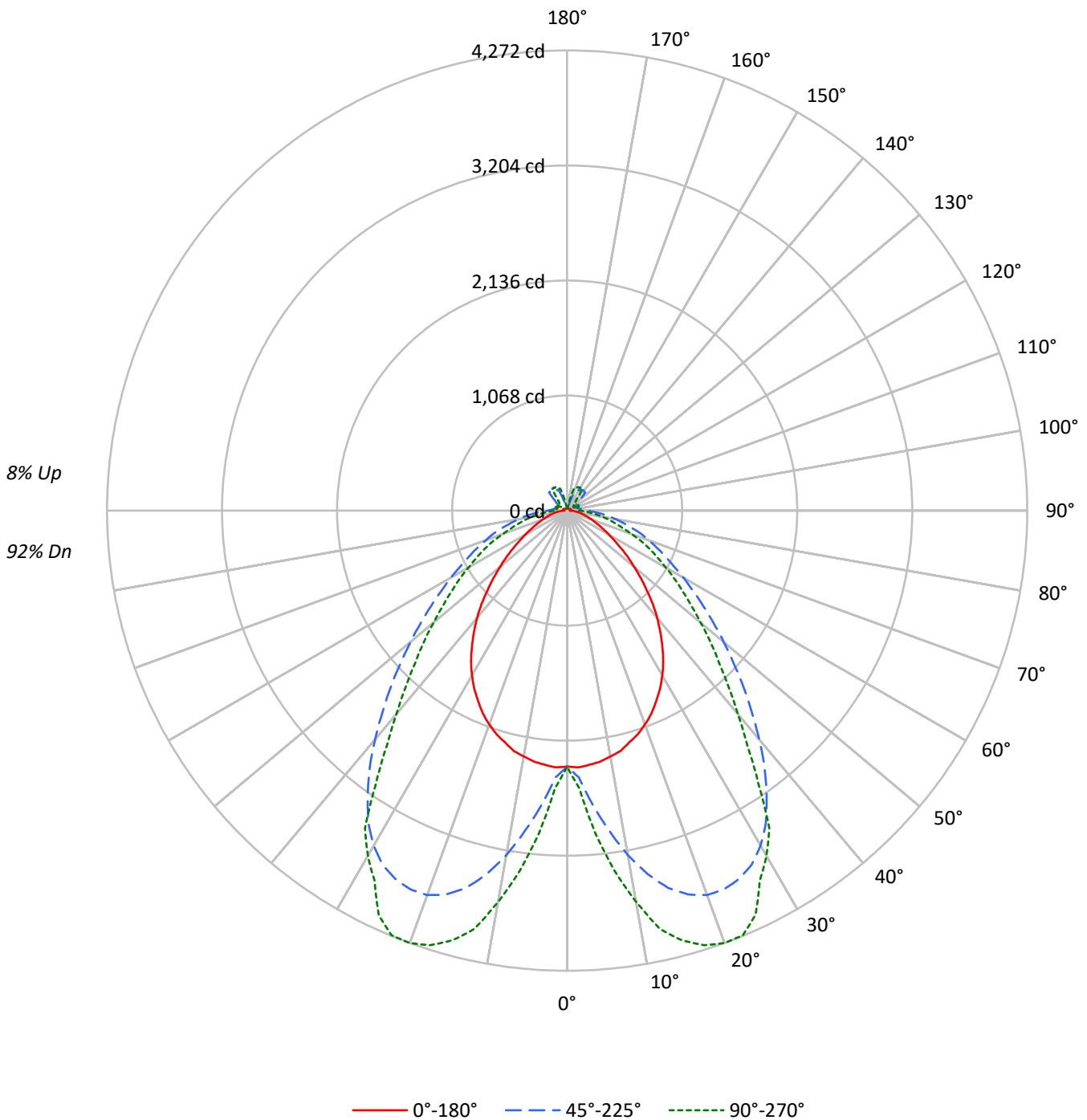
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9863.1 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.63 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 1.25' x L: 2' x H: 0.21')
CIE Type: Direct

Input Watts (W): 75.4
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	50	30	10	0	
RCR																						
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	92				
1	107	102	98	94	103	99	95	92	93	90	88	88	86	83	83	81	80	77				
2	98	90	83	78	94	87	81	76	82	77	73	78	74	70	74	71	68	65				
3	90	79	72	65	86	77	70	64	73	67	62	69	64	60	66	62	58	56				
4	82	71	62	56	79	69	61	55	65	59	53	62	57	52	59	54	50	48				
5	76	64	55	49	73	62	54	48	59	52	47	56	50	45	54	48	44	42				
6	70	57	49	43	68	56	48	42	53	46	41	51	45	40	49	43	39	37				
7	65	52	44	38	63	51	43	37	49	42	37	47	40	36	45	39	35	33				
8	61	48	39	34	59	47	39	33	45	38	33	43	37	32	41	36	32	30				
9	57	44	36	30	55	43	35	30	41	34	30	40	33	29	38	33	29	27				
10	53	40	33	28	52	40	32	27	38	32	27	37	31	26	35	30	26	24				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10230	10230	10230
5°	10146	11672	12809
10°	9951	13732	15663
15°	9662	15378	17630
20°	9328	16272	18454
25°	8848	16463	18245
30°	8282	16080	16784
35°	7554	14960	14581
40°	6725	13437	12160
45°	5763	11841	10397
50°	4856	10356	9036
55°	4012	9077	7961
60°	3283	8070	7070
65°	2731	7236	6365
70°	2339	6615	5474
75°	2048	6025	4800
80°	1824	5420	4232
85°	1579	4771	3503



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.2	2.8
10°-20°	971.4	9.8
20°-30°	1592.2	16.1
30°-40°	1779.3	18.0
40°-50°	1550.2	15.7
50°-60°	1193.1	12.1
60°-70°	856.0	8.7
70°-80°	565.3	5.7
80°-90°	305.6	3.1
90°-100°	135.3	1.4
100°-110°	107.8	1.1
110°-120°	108.1	1.1
120°-130°	104.5	1.1
130°-140°	113.3	1.1
140°-150°	112.5	1.1
150°-160°	71.4	0.7
160°-170°	22.6	0.2
170°-180°	2.3	0.0
0°-30°	2835.8	28.8
0°-40°	4615.1	46.8
0°-60°	7358.4	74.6
0°-90°	9085.3	92.1
90°-120°	351.2	3.6
90°-150°	681.5	6.9
90°-180°	778.0	7.9
0°-180°	9863.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2376	2376	2376	2376	2376	
5°	2369	2502	2746	2925	3007	225
15°	2228	2915	3627	4035	4132	628
25°	1953	3006	3775	4107	4139	898
35°	1542	2633	3228	3191	3098	961
45°	1045	1971	2317	2131	1992	809
55°	614	1339	1540	1405	1313	554
65°	328	894	1002	919	848	330
75°	171	620	621	531	468	183
85°	70	402	308	241	206	66
90°	26	240	176	132	113	18
95°	35	166	133	108	98	28
105°	38	101	111	99	95	40
115°	33	178	75	112	117	34
125°	29	211	117	80	71	26
135°	23	191	237	122	106	18
145°	20	146	235	244	242	13
155°	19	41	213	232	240	9
165°	19	27	51	124	152	5
175°	19	20	23	25	21	2
180°	18	18	18	18	18	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2376	2376	2376	2376	2376	2376	2376	2376	2376	2376	2376
2.5°	2386	2381	2392	2402	2403	2410	2409	2422	2438	2458	2478
5°	2369	2372	2398	2438	2472	2502	2518	2573	2619	2683	2746
7.5°	2351	2359	2415	2492	2570	2614	2654	2749	2833	2922	2999
10°	2318	2337	2432	2557	2679	2741	2798	2914	3035	3147	3247
12.5°	2286	2317	2446	2608	2761	2839	2914	3063	3200	3343	3456
15°	2228	2282	2454	2651	2835	2915	3009	3181	3343	3491	3627
17.5°	2178	2248	2450	2673	2888	2982	3076	3260	3438	3607	3737
20°	2113	2202	2438	2683	2909	3018	3120	3318	3505	3666	3799
22.5°	2042	2146	2408	2667	2907	3020	3131	3331	3517	3678	3806
25°	1953	2081	2355	2631	2880	3006	3107	3306	3491	3645	3775
27.5°	1866	2005	2295	2577	2831	2950	3050	3260	3439	3584	3708
30°	1766	1917	2217	2499	2753	2870	2977	3172	3343	3486	3592
32.5°	1661	1816	2122	2398	2645	2770	2867	3058	3225	3342	3435
35°	1542	1711	2003	2282	2519	2633	2731	2910	3067	3173	3228
37.5°	1419	1594	1883	2142	2379	2475	2570	2751	2880	2973	3012
40°	1301	1465	1740	2003	2219	2316	2400	2564	2690	2754	2775
42.5°	1176	1341	1600	1845	2053	2146	2230	2374	2484	2541	2536
45°	1045	1211	1451	1691	1889	1971	2054	2178	2278	2317	2317
47.5°	926	1077	1318	1531	1721	1803	1879	1995	2077	2105	2095
50°	815	956	1178	1378	1563	1644	1708	1822	1893	1906	1899
52.5°	711	841	1050	1246	1415	1486	1552	1654	1712	1725	1712
55°	614	737	931	1117	1276	1339	1406	1493	1539	1543	1540
57.5°	525	645	827	1001	1147	1212	1266	1347	1376	1387	1382
60°	450	564	732	899	1035	1094	1144	1200	1235	1238	1248
62.5°	384	493	654	806	938	988	1032	1083	1108	1112	1112
65°	328	431	586	725	847	894	929	976	992	992	1002
67.5°	280	380	525	662	772	808	844	877	883	895	902
70°	239	337	473	606	701	740	767	786	799	799	802
72.5°	202	297	428	556	647	675	694	715	720	719	721
75°	171	264	393	506	593	620	635	649	646	640	621
77.5°	144	234	362	471	544	572	583	588	572	552	534
80°	117	206	328	431	500	522	528	510	492	476	456
82.5°	92	180	299	396	453	460	462	443	427	407	387
85°	70	155	266	349	393	402	399	377	353	331	308
87.5°	47	127	226	295	328	329	322	302	283	261	237
90°	26	89	167	215	242	240	242	226	211	194	176
92.5°	30	68	121	170	199	202	204	193	180	167	150
95°	35	60	85	128	158	166	168	165	158	148	133
97.5°	36	62	88	90	128	138	144	143	137	129	122
100°	37	67	101	97	92	108	119	128	127	121	112
102.5°	38	70	117	112	96	86	89	112	118	116	111
105°	38	72	121	131	111	101	90	89	105	112	111
107.5°	38	70	124	153	130	117	106	84	78	102	108
110°	37	67	127	170	147	135	122	97	80	70	101



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	35	58	127	169	172	152	138	112	90	77	67
115°	33	50	125	169	203	178	153	128	104	87	75
117.5°	33	45	125	170	203	215	183	143	117	99	83
120°	32	41	122	170	203	215	225	162	131	111	96
122.5°	30	37	114	167	201	213	222	197	148	124	106
125°	29	33	95	164	198	211	221	234	171	136	117
127.5°	28	31	79	165	194	207	218	232	226	156	131
130°	26	30	64	161	189	202	214	228	236	205	150
132.5°	24	28	51	143	184	197	208	225	234	238	188
135°	23	26	39	120	182	191	202	222	233	238	237
137.5°	22	26	35	95	182	189	196	215	229	237	237
140°	21	25	29	73	166	190	193	210	225	235	240
142.5°	21	24	28	57	134	177	193	203	219	232	239
145°	20	23	27	42	102	146	185	199	212	225	235
147.5°	20	22	26	34	77	112	152	202	206	218	228
150°	19	22	26	28	57	80	114	184	207	210	221
152.5°	19	21	26	28	41	58	81	139	194	211	213
155°	19	21	25	27	32	41	55	99	153	203	213
157.5°	19	21	24	27	28	31	39	65	108	154	196
160°	19	20	24	26	28	28	29	45	67	102	137
162.5°	19	20	22	25	27	28	28	30	43	62	87
165°	19	20	22	24	26	27	28	29	29	36	51
167.5°	19	19	21	23	25	26	26	28	28	29	30
170°	19	19	20	22	23	24	25	26	27	28	28
172.5°	19	19	20	20	21	22	22	23	25	25	26
175°	19	19	19	19	20	20	20	21	21	22	23
177.5°	18	18	19	19	19	19	19	19	19	19	20
180°	18	18	18	18	18	18	18	18	18	18	18



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2376	2376	2376	2376	2376	2376	2376	2376	2376	2376
2.5°	2512	2510	2529	2556	2551	2562	2577	2593	2595	2581
5°	2790	2822	2870	2905	2925	2934	2961	2977	2969	3007
7.5°	3093	3141	3202	3259	3282	3289	3315	3360	3356	3374
10°	3350	3420	3498	3572	3593	3616	3656	3685	3696	3688
12.5°	3575	3668	3742	3805	3846	3886	3921	3948	3972	3978
15°	3749	3841	3927	4008	4035	4057	4102	4126	4128	4132
17.5°	3860	3942	4026	4095	4127	4148	4184	4214	4223	4231
20°	3914	3989	4070	4134	4167	4187	4224	4244	4259	4272
22.5°	3917	3995	4075	4137	4166	4189	4224	4247	4259	4266
25°	3875	3955	4035	4079	4107	4128	4136	4133	4131	4139
27.5°	3798	3864	3913	3931	3923	3925	3907	3886	3878	3874
30°	3662	3708	3710	3708	3697	3703	3688	3682	3696	3701
32.5°	3475	3491	3501	3477	3477	3476	3482	3467	3475	3493
35°	3261	3239	3238	3203	3191	3185	3151	3124	3106	3098
37.5°	3008	2979	2970	2926	2909	2892	2839	2790	2763	2748
40°	2763	2731	2711	2657	2631	2612	2566	2509	2498	2466
42.5°	2518	2503	2449	2412	2370	2342	2297	2259	2228	2214
45°	2304	2267	2220	2160	2131	2103	2055	2022	2006	1992
47.5°	2082	2046	2006	1949	1926	1902	1861	1827	1811	1804
50°	1884	1850	1810	1743	1729	1704	1667	1643	1624	1617
52.5°	1694	1668	1624	1575	1562	1534	1506	1476	1466	1454
55°	1528	1496	1464	1425	1405	1388	1358	1330	1325	1313
57.5°	1380	1348	1312	1277	1268	1253	1221	1204	1186	1185
60°	1230	1213	1188	1157	1148	1130	1100	1077	1061	1058
62.5°	1105	1091	1066	1038	1027	1013	988	962	952	946
65°	997	980	957	935	919	916	887	864	851	848
67.5°	889	883	864	843	830	814	790	765	752	744
70°	799	788	764	732	718	709	674	653	641	634
72.5°	705	686	657	630	616	604	581	561	552	544
75°	604	588	565	545	531	522	503	483	473	468
77.5°	521	503	491	471	457	446	429	411	406	400
80°	442	428	415	395	382	373	356	340	331	332
82.5°	364	350	333	316	308	298	285	274	271	265
85°	289	276	263	248	241	235	222	214	208	206
87.5°	223	210	198	186	182	176	166	163	158	153
90°	161	152	143	136	132	128	123	120	115	113
92.5°	138	128	122	116	115	112	108	105	102	100
95°	123	117	113	109	108	106	103	102	100	98
97.5°	115	110	107	105	105	104	103	101	100	99
100°	106	100	100	101	101	101	101	101	100	99
102.5°	105	100	99	97	97	95	95	94	93	92
105°	107	104	101	100	99	99	97	96	95	95
107.5°	109	108	107	105	105	105	103	103	102	100
110°	107	109	110	110	110	110	110	110	108	108



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	100	106	110	114	114	115	115	115	115	114
115°	68	71	106	111	112	114	116	118	118	117
117.5°	76	69	65	63	87	101	114	118	117	117
120°	84	76	71	67	67	65	64	64	64	68
122.5°	95	85	77	73	72	71	70	68	67	66
125°	105	96	88	81	80	78	76	74	73	71
127.5°	115	105	98	93	91	90	84	82	79	79
130°	129	116	107	102	99	98	95	93	91	90
132.5°	147	130	120	113	110	108	104	101	98	98
135°	192	152	135	126	122	120	115	111	107	106
137.5°	236	217	163	145	140	135	128	123	119	119
140°	239	238	238	195	177	166	149	141	137	133
142.5°	241	242	239	241	242	241	232	204	186	185
145°	240	243	243	243	244	244	243	244	241	242
147.5°	237	241	244	247	245	247	248	248	247	247
150°	229	237	242	245	244	245	245	246	243	243
152.5°	221	229	235	241	241	243	243	243	242	242
155°	212	218	225	231	232	234	237	238	240	240
157.5°	213	213	215	219	220	222	224	226	227	228
160°	173	204	214	219	217	215	214	216	214	216
162.5°	117	136	164	187	198	206	209	212	213	215
165°	64	80	99	121	124	129	138	144	154	152
167.5°	33	44	51	57	61	64	76	79	77	82
170°	29	29	30	30	31	32	33	39	36	34
172.5°	27	27	28	28	29	29	28	27	26	25
175°	23	24	25	25	25	26	25	24	23	21
177.5°	20	20	20	21	21	21	20	19	18	17
180°	18	18	18	18	18	18	18	18	18	18

(END OF REPORT)