

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: P232614

Luminaire Tested: **4SKB1-LD5-8-W-UNV-L850-CD1-RS-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P232614  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1709-317-7)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SKB1-LD5-8-W-UNV-L850-CD1-RS-U  
Description: METALUX SKYBAR 4' WAVESTREAM STRIP  
WITH WIDE LENS AND REFLECTOR  
Light Source: (238) 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8090.0 lumens  
Efficiency: N/A  
Efficacy: 124.0 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.47 / 1.44  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.29')  
CIE Type: Direct

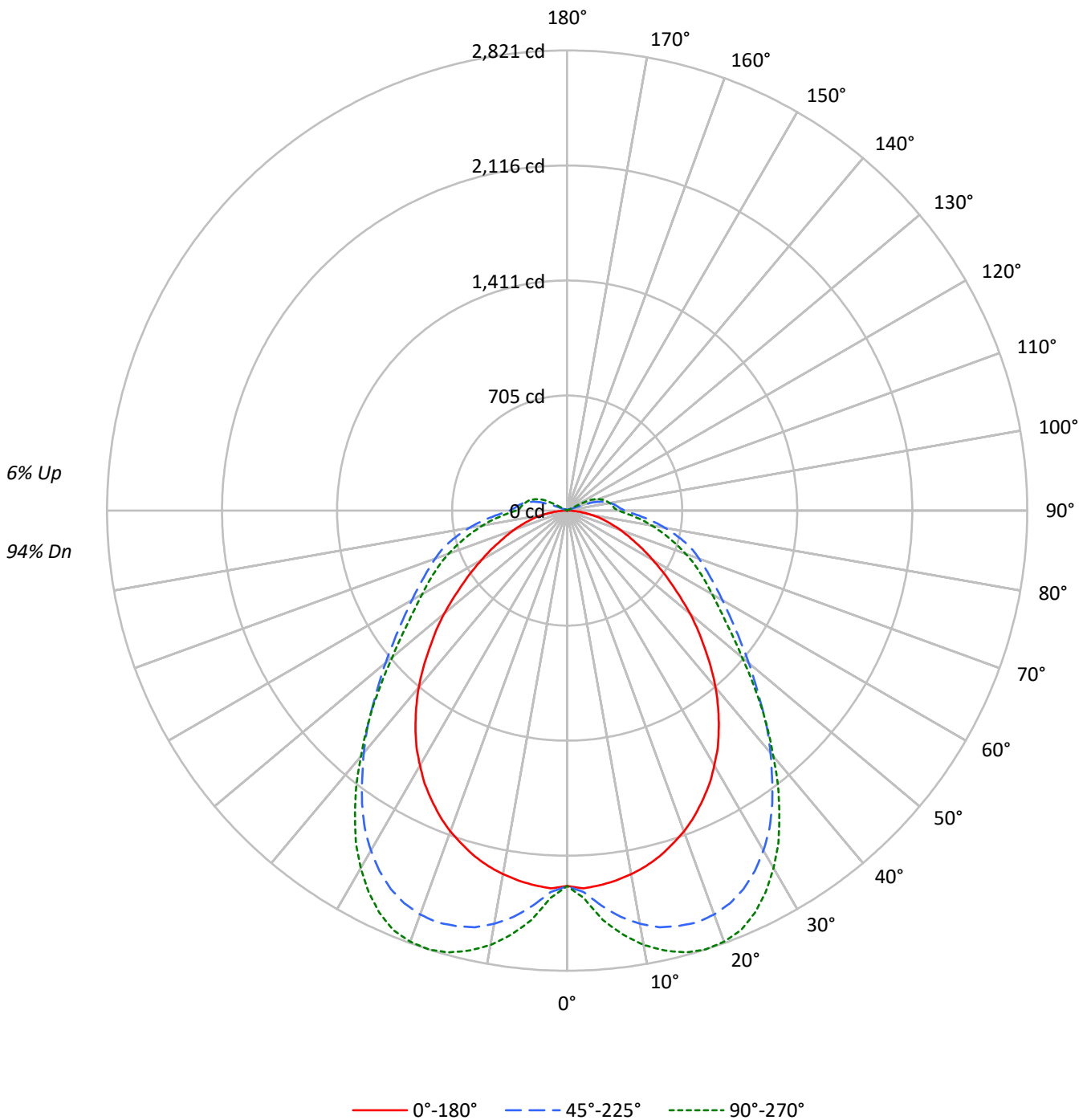
Input Watts (W): 65.23  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94
1	106	101	96	91	103	98	93	89	92	89	85	87	84	82	83	80	78	76
2	96	87	80	74	93	85	78	73	80	75	70	76	72	68	72	69	65	63
3	88	77	68	62	85	75	67	61	71	64	59	67	62	57	64	59	55	53
4	80	68	59	52	78	66	58	52	63	56	50	60	54	49	57	52	48	45
5	74	61	52	45	71	59	51	45	57	49	44	54	48	43	52	46	42	39
6	68	55	46	39	66	54	45	39	51	44	38	49	42	37	47	41	37	34
7	63	50	41	35	61	49	41	35	47	39	34	45	38	33	43	37	33	31
8	59	46	37	31	57	45	37	31	43	36	30	41	35	30	39	34	29	27
9	55	42	34	28	54	41	33	28	39	32	27	38	32	27	37	31	27	25
10	52	39	31	26	50	38	30	25	37	30	25	35	29	25	34	28	24	22

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	24772	24772	24772
5°	24748	24408	24704
10°	24421	24342	24517
15°	23974	23788	23806
20°	23364	22882	22614
25°	22533	21577	20932
30°	21523	19854	18793
35°	20266	17850	16401
40°	18748	15699	13963
45°	16922	13646	11768
50°	15159	11901	9801
55°	13215	10460	8344
60°	11581	9396	7311
65°	10149	8575	6519
70°	9093	7944	5782
75°	7964	7278	5005
80°	6683	6315	4277
85°	4446	5232	3536



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	235.2	2.9
10°-20°	731.3	9.0
20°-30°	1138.9	14.1
30°-40°	1309.5	16.2
40°-50°	1226.8	15.2
50°-60°	1032.0	12.8
60°-70°	845.3	10.4
70°-80°	658.1	8.1
80°-90°	424.2	5.2
90°-100°	261.1	3.2
100°-110°	162.3	2.0
110°-120°	53.4	0.7
120°-130°	7.3	0.1
130°-140°	3.4	0.0
140°-150°	1.2	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2105.4	26.0
0°-40°	3415.0	42.2
0°-60°	5673.8	70.1
0°-90°	7601.3	94.0
90°-120°	476.8	5.9
90°-150°	488.7	6.0
90°-180°	489.0	6.0
0°-180°	8090.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2301	2301	2301	2301	2301	
5°	2305	2353	2432	2511	2520	219
15°	2193	2439	2636	2784	2804	618
25°	1962	2319	2559	2707	2721	903
35°	1621	1981	2192	2282	2268	1011
45°	1193	1525	1682	1711	1675	922
55°	778	1114	1255	1234	1186	701
65°	461	822	970	929	896	463
75°	244	626	748	676	644	260
85°	66	413	467	426	410	72
90°	4	287	352	324	314	5
95°	0	217	307	293	283	0
105°	0	44	211	245	241	0
115°	0	30	20	98	150	0
125°	0	18	14	0	0	0
135°	0	8	8	0	0	0
145°	1	2	4	0	0	1
155°	0	0	0	0	0	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°	22.5°	45°	67.5°	90°
0°	2301.4	2301.4	2301.4	2301.4	2301.4
2.5°	2318.2	2323.0	2341.0	2387.8	2378.2
5°	2305.0	2353.0	2432.2	2511.3	2519.7
7.5°	2288.2	2393.8	2512.5	2613.3	2621.7
10°	2263.0	2421.4	2571.3	2693.7	2704.5
12.5°	2233.0	2439.4	2616.9	2751.3	2762.1
15°	2193.4	2439.4	2636.1	2783.7	2804.1
17.5°	2144.2	2429.8	2646.9	2801.7	2820.9
20°	2093.8	2407.0	2634.9	2794.5	2812.5
22.5°	2032.6	2371.0	2606.1	2762.1	2783.7
25°	1961.8	2319.4	2559.3	2706.9	2721.3
27.5°	1889.8	2254.6	2491.0	2625.3	2636.1
30°	1804.6	2174.2	2405.8	2525.7	2530.5
32.5°	1719.4	2089.0	2309.8	2414.2	2410.6
35°	1621.0	1981.0	2192.2	2282.2	2267.8
37.5°	1519.0	1876.6	2063.8	2137.0	2122.6
40°	1415.9	1761.4	1939.0	1989.4	1966.6
42.5°	1304.3	1641.4	1814.2	1846.6	1819.0
45°	1192.7	1525.0	1682.2	1711.0	1675.0
47.5°	1089.5	1409.9	1562.2	1567.0	1532.2
50°	983.9	1305.5	1453.1	1448.3	1399.1
52.5°	875.9	1204.7	1349.9	1337.9	1287.5
55°	777.5	1113.5	1255.1	1233.5	1185.5
57.5°	691.1	1029.5	1173.5	1139.9	1100.3
60°	605.9	952.7	1099.1	1061.9	1025.9
62.5°	532.7	880.7	1030.7	992.3	961.1
65°	460.8	821.9	969.5	928.7	896.3
67.5°	400.8	763.1	914.3	868.7	837.5
70°	346.8	713.9	860.3	807.5	772.7
72.5°	294.0	670.7	808.7	737.9	707.9
75°	243.6	626.3	747.5	675.5	644.3
77.5°	200.4	585.5	677.9	609.5	584.3
80°	152.4	543.5	608.3	547.1	525.5
82.5°	108.0	483.6	539.9	484.8	469.2
85°	66.0	412.8	466.8	426.0	410.4
87.5°	28.8	340.8	402.0	368.4	357.6
90°	3.6	286.8	351.6	324.0	314.4
92.5°	1.2	252.0	325.2	302.4	291.6
95°	0.0	217.2	307.2	292.8	283.2
97.5°	0.0	176.4	290.4	284.4	274.8
100°	0.0	114.0	268.8	272.4	264.0
102.5°	0.0	48.0	243.6	259.2	252.0
105°	0.0	44.4	211.2	244.8	241.2
107.5°	0.0	40.8	166.8	225.6	223.2
110°	0.0	37.2	86.4	202.8	204.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	33.6	21.6	172.8	180.0
115°	0.0	30.0	20.4	98.4	150.0
117.5°	0.0	27.6	18.0	1.2	51.6
120°	0.0	24.0	16.8	1.2	0.0
122.5°	0.0	20.4	15.6	0.0	0.0
125°	0.0	18.0	14.4	0.0	0.0
127.5°	0.0	15.6	12.0	0.0	0.0
130°	0.0	13.2	10.8	0.0	0.0
132.5°	0.0	10.8	9.6	0.0	0.0
135°	0.0	8.4	8.4	0.0	0.0
137.5°	0.0	7.2	7.2	0.0	0.0
140°	0.0	4.8	6.0	0.0	0.0
142.5°	1.2	3.6	4.8	0.0	0.0
145°	1.2	2.4	3.6	0.0	0.0
147.5°	1.2	2.4	3.6	0.0	0.0
150°	1.2	1.2	2.4	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
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)