

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: P232540

Luminaire Tested: **8SKB1-LD5-16-W-UNV-L835-CD2-RS-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P232540  
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: 8SKB1-LD5-16-W-UNV-L835-CD2-RS-U  
Description: METALUX SKYBAR 8' WAVESTREAM STRIP  
WITH WIDE LENS AND REFLECTOR  
Light Source: (476) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14664.0 lumens  
Efficiency: N/A  
Efficacy: 112.4 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.47 / 1.44  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.29')  
CIE Type: Direct

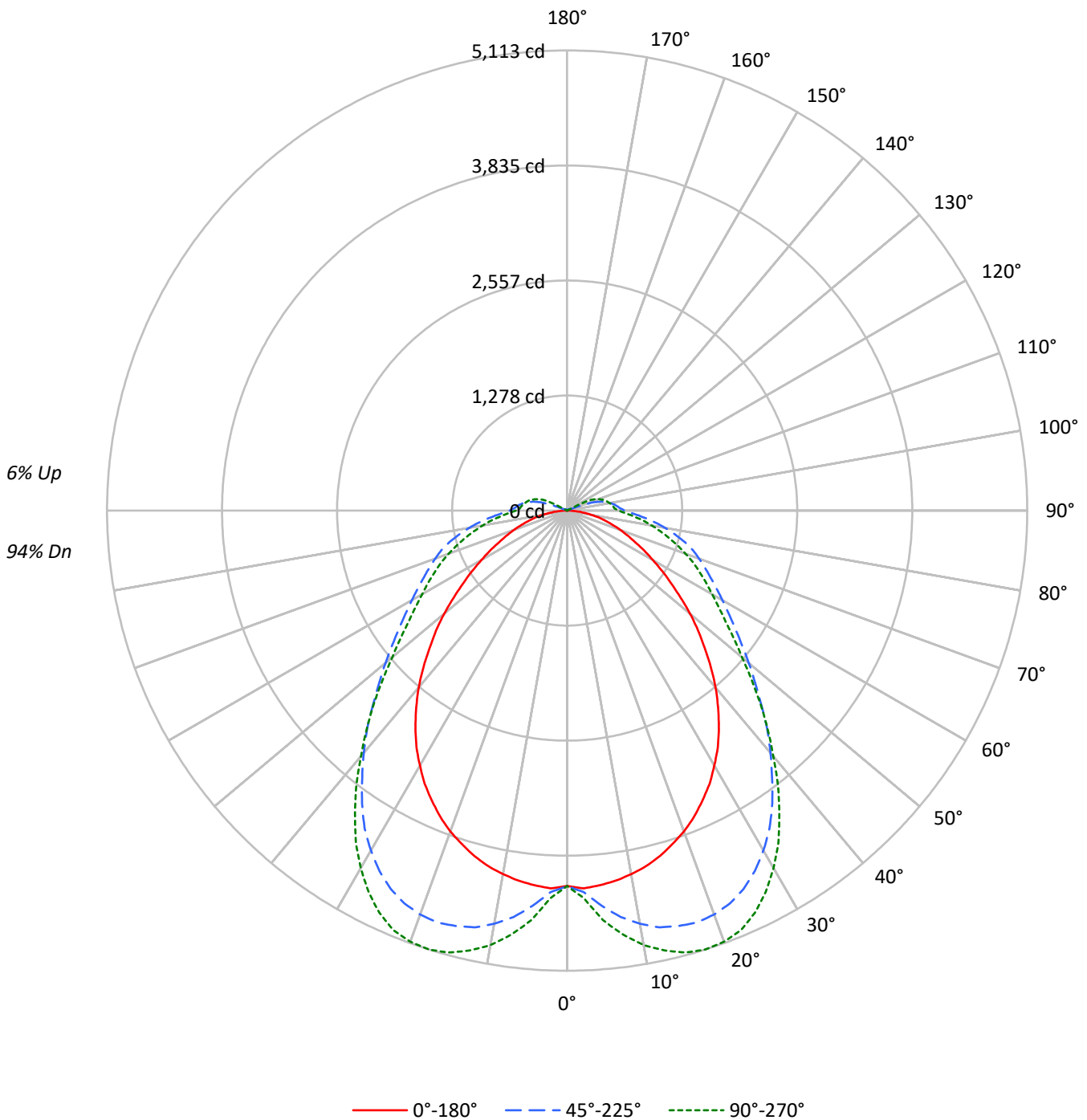
Input Watts (W): 130.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	22451	22451	22451
5°	22500	22167	22390
10°	22274	22149	22220
15°	21938	21681	21576
20°	21452	20887	20495
25°	20764	19724	18971
30°	19909	18173	17032
35°	18825	16361	14864
40°	17495	14408	12655
45°	15876	12540	10666
50°	14310	10950	8882
55°	12569	9637	7562
60°	11120	8669	6626
65°	9865	7923	5908
70°	8989	7352	5241
75°	8081	6749	4536
80°	7094	5867	3876
85°	5213	4871	3204



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	426.3	2.9
10°-20°	1325.6	9.0
20°-30°	2064.5	14.1
30°-40°	2373.7	16.2
40°-50°	2223.8	15.2
50°-60°	1870.5	12.8
60°-70°	1532.2	10.4
70°-80°	1192.9	8.1
80°-90°	768.8	5.2
90°-100°	473.3	3.2
100°-110°	294.2	2.0
110°-120°	96.7	0.7
120°-130°	13.2	0.1
130°-140°	6.1	0.0
140°-150°	2.1	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3816.3	26.0
0°-40°	6190.0	42.2
0°-60°	10284.3	70.1
0°-90°	13778.2	94.0
90°-120°	864.2	5.9
90°-150°	885.7	6.0
90°-180°	886.0	6.0
0°-180°	14664.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4172	4172	4172	4172	4172	
5°	4178	4265	4408	4552	4567	396
15°	3976	4422	4778	5046	5083	1119
25°	3556	4204	4639	4907	4933	1636
35°	2938	3591	3974	4137	4111	1833
45°	2162	2764	3049	3101	3036	1671
55°	1409	2018	2275	2236	2149	1271
65°	835	1490	1757	1683	1625	838
75°	442	1135	1355	1224	1168	472
85°	120	748	846	772	744	130
90°	6	520	637	587	570	9
95°	0	394	557	531	513	0
105°	0	80	383	444	437	0
115°	0	54	37	178	272	0
125°	0	33	26	0	0	0
135°	0	15	15	0	0	0
145°	2	4	6	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°	4171.5	4171.5	4171.5	4171.5	4171.5
2.5°	4201.9	4210.6	4243.3	4328.1	4310.7
5°	4178.0	4265.0	4408.5	4552.1	4567.3
7.5°	4147.6	4338.9	4554.3	4737.0	4752.2
10°	4101.9	4389.0	4660.8	4882.7	4902.3
12.5°	4047.5	4421.6	4743.5	4987.1	5006.6
15°	3975.7	4421.6	4778.3	5045.8	5082.8
17.5°	3886.6	4404.2	4797.9	5078.4	5113.2
20°	3795.2	4362.9	4776.1	5065.4	5098.0
22.5°	3684.3	4297.6	4723.9	5006.6	5045.8
25°	3556.0	4204.1	4639.1	4906.6	4932.7
27.5°	3425.5	4086.7	4515.1	4758.7	4778.3
30°	3271.1	3940.9	4360.7	4578.2	4586.9
32.5°	3116.6	3786.5	4186.7	4375.9	4369.4
35°	2938.3	3590.8	3973.6	4136.7	4110.6
37.5°	2753.4	3401.6	3740.8	3873.5	3847.4
40°	2566.4	3192.8	3514.7	3606.0	3564.7
42.5°	2364.1	2975.3	3288.5	3347.2	3297.2
45°	2161.9	2764.3	3049.2	3101.4	3036.2
47.5°	1974.8	2555.5	2831.7	2840.4	2777.4
50°	1783.4	2366.3	2633.8	2625.1	2535.9
52.5°	1587.7	2183.6	2446.8	2425.0	2333.7
55°	1409.3	2018.3	2275.0	2235.8	2148.8
57.5°	1252.7	1866.1	2127.1	2066.2	1994.4
60°	1098.3	1726.9	1992.2	1924.8	1859.5
62.5°	965.7	1596.4	1868.2	1798.7	1742.1
65°	835.2	1489.8	1757.3	1683.4	1624.7
67.5°	726.4	1383.2	1657.3	1574.6	1518.1
70°	628.5	1294.1	1559.4	1463.7	1400.6
72.5°	532.9	1215.8	1465.9	1337.6	1283.2
75°	441.5	1135.3	1355.0	1224.5	1167.9
77.5°	363.2	1061.4	1228.8	1104.9	1059.2
80°	276.2	985.2	1102.7	991.8	952.6
82.5°	195.7	876.5	978.7	878.7	850.4
85°	119.6	748.2	846.0	772.1	743.8
87.5°	52.2	617.7	728.6	667.7	648.1
90°	6.5	519.8	637.2	587.2	569.8
92.5°	2.2	456.7	589.4	548.1	528.5
95°	0.0	393.7	556.8	530.7	513.3
97.5°	0.0	319.7	526.3	515.5	498.1
100°	0.0	206.6	487.2	493.7	478.5
102.5°	0.0	87.0	441.5	469.8	456.7
105°	0.0	80.5	382.8	443.7	437.2
107.5°	0.0	73.9	302.3	408.9	404.5
110°	0.0	67.4	156.6	367.6	369.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	60.9	39.1	313.2	326.2
115°	0.0	54.4	37.0	178.3	271.9
117.5°	0.0	50.0	32.6	2.2	93.5
120°	0.0	43.5	30.4	2.2	0.0
122.5°	0.0	37.0	28.3	0.0	0.0
125°	0.0	32.6	26.1	0.0	0.0
127.5°	0.0	28.3	21.7	0.0	0.0
130°	0.0	23.9	19.6	0.0	0.0
132.5°	0.0	19.6	17.4	0.0	0.0
135°	0.0	15.2	15.2	0.0	0.0
137.5°	0.0	13.0	13.0	0.0	0.0
140°	0.0	8.7	10.9	0.0	0.0
142.5°	2.2	6.5	8.7	0.0	0.0
145°	2.2	4.3	6.5	0.0	0.0
147.5°	2.2	4.3	6.5	0.0	0.0
150°	2.2	2.2	4.3	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)