

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: P232552

Luminaire Tested: **8SKB1-LD5-12-N-UNV-L835-CD2-RS-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P232552  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1709-317-8)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SKB1-LD5-12-N-UNV-L835-CD2-RS-U  
Description: METALUX SKYBAR 8' WAVESTREAM STRIP  
WITH NARROW LENS AND REFLECTOR  
Light Source: (392) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11969.0 lumens  
Efficiency: N/A  
Efficacy: 126.9 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.5 / 1.49  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.29')  
CIE Type: Direct

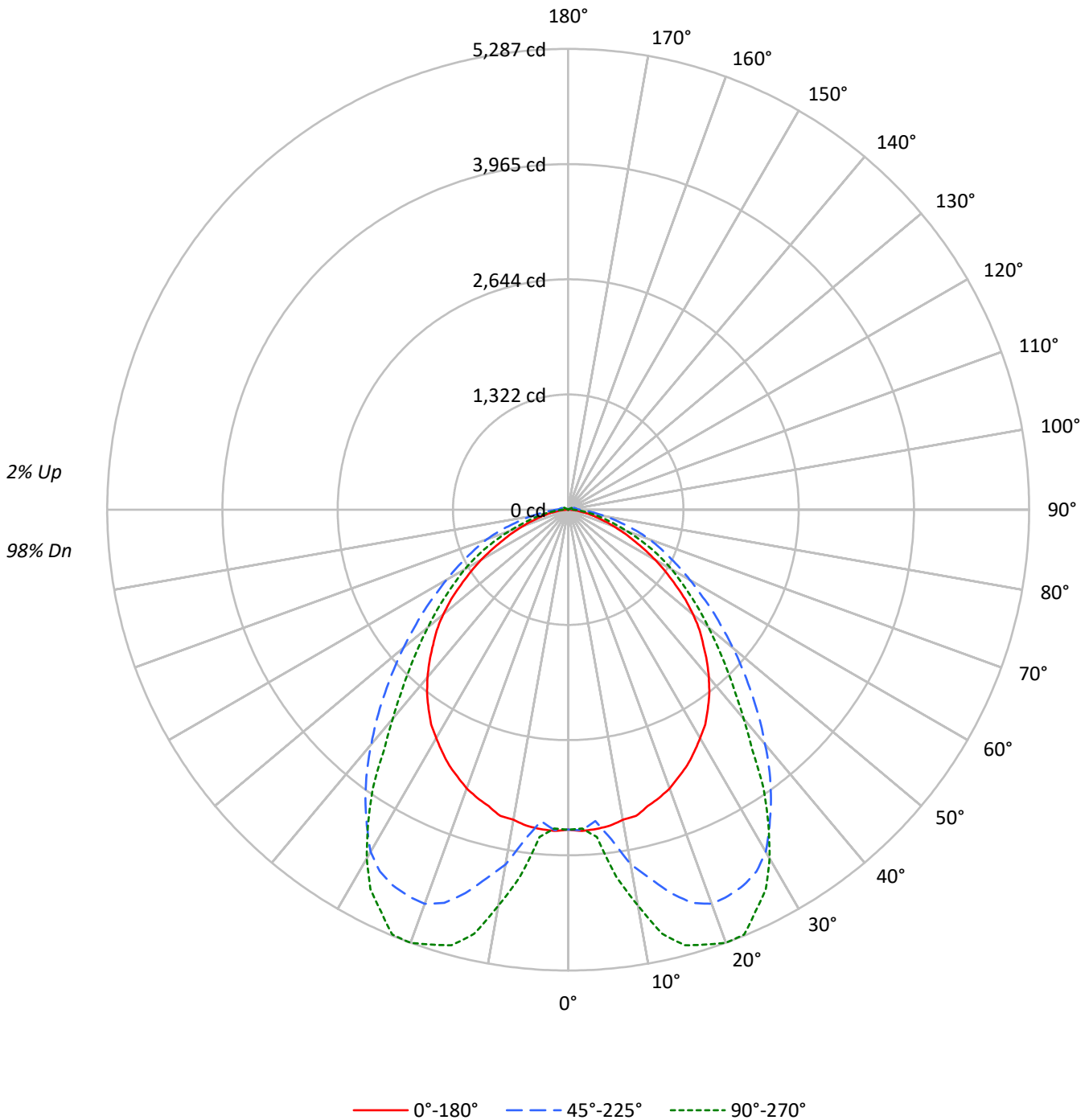
Input Watts (W): 94.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98
1	109	104	100	97	106	102	98	95	97	94	92	93	91	88	89	87	85	83
2	100	92	85	80	97	90	84	79	86	81	77	82	78	75	79	76	73	71
3	91	81	73	67	89	80	72	67	76	70	65	73	68	64	71	66	63	60
4	84	72	64	58	82	71	63	57	68	62	56	66	60	55	63	58	54	52
5	77	65	56	50	75	64	56	50	62	54	49	59	53	48	57	52	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	52	47	42	40
7	67	53	45	39	65	53	44	39	51	44	38	49	43	38	48	42	38	36
8	62	49	41	35	60	48	40	35	47	40	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	37	31	43	36	31	42	35	31	41	35	31	29
10	54	41	34	29	53	41	33	28	40	33	28	39	32	28	38	32	28	26

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

	0°	45°	90°
0°	19756	19756	19756
5°	19804	18024	18474
10°	19615	19625	20903
15°	19429	20659	21960
20°	19230	21043	21256
25°	18877	20223	19552
30°	18419	18887	17155
35°	17885	16696	14133
40°	17101	14400	11107
45°	16090	12217	9012
50°	15008	10267	7355
55°	13386	8530	6009
60°	11685	7013	4884
65°	9729	5747	3783
70°	7940	4651	2686
75°	6287	3397	1789
80°	4767	2304	1133
85°	3265	1396	610



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	367.3	3.1
10°-20°	1253.3	10.5
20°-30°	2055.2	17.2
30°-40°	2323.3	19.4
40°-50°	2093.2	17.5
50°-60°	1649.3	13.8
60°-70°	1134.4	9.5
70°-80°	632.5	5.3
80°-90°	256.7	2.1
90°-100°	97.7	0.8
100°-110°	54.5	0.5
110°-120°	29.8	0.2
120°-130°	10.2	0.1
130°-140°	7.1	0.1
140°-150°	4.2	0.0
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3675.8	30.7
0°-40°	5999.1	50.1
0°-60°	9741.6	81.4
0°-90°	11765.2	98.3
90°-120°	182.0	1.5
90°-150°	203.4	1.7
90°-180°	204.0	1.7
0°-180°	11969.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3671	3671	3671	3671	3671	
5°	3677	3692	3584	3744	3768	349
15°	3521	3790	4553	5080	5173	996
25°	3233	3908	4757	5110	5084	1487
35°	2792	3521	4055	3996	3908	1743
45°	2191	2736	2971	2744	2566	1693
55°	1501	1893	2014	1838	1708	1346
65°	824	1188	1275	1169	1040	826
75°	344	724	682	545	461	371
85°	75	361	242	181	142	84
90°	3	231	134	88	62	5
95°	0	161	99	67	47	0
105°	0	41	73	64	49	0
115°	0	31	13	49	55	0
125°	2	23	11	10	0	1
135°	2	13	11	11	0	1
145°	2	6	8	10	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°	3670.8	3670.8	3670.8	3670.8	3670.8
2.5°	3688.7	3682.2	3678.9	3709.8	3661.0
5°	3677.3	3691.9	3584.5	3744.0	3768.5
7.5°	3657.8	3615.4	3815.7	4167.3	4251.9
10°	3612.2	3566.6	4129.8	4518.9	4611.7
12.5°	3599.2	3659.4	4331.7	4854.2	4984.4
15°	3521.0	3789.6	4553.1	5080.5	5173.3
17.5°	3467.3	3882.4	4730.5	5166.8	5231.9
20°	3402.2	3910.1	4811.9	5215.6	5287.2
22.5°	3315.9	3937.7	4797.2	5217.2	5275.8
25°	3232.9	3908.4	4756.6	5109.8	5083.7
27.5°	3132.0	3843.3	4678.4	4947.0	4909.6
30°	3026.2	3773.3	4531.9	4683.3	4619.8
32.5°	2923.6	3669.2	4297.5	4343.1	4269.8
35°	2791.7	3521.0	4055.0	3996.3	3908.4
37.5°	2658.3	3346.8	3796.1	3641.5	3465.7
40°	2508.5	3149.9	3512.9	3332.2	3128.7
42.5°	2353.9	2939.9	3244.3	3024.5	2829.2
45°	2191.1	2736.4	2970.8	2744.5	2565.5
47.5°	2044.6	2529.7	2713.6	2480.8	2324.6
50°	1870.4	2314.8	2469.4	2244.8	2099.9
52.5°	1694.6	2108.1	2226.9	2029.9	1898.1
55°	1500.9	1893.2	2013.6	1837.8	1707.6
57.5°	1323.4	1702.7	1797.1	1658.8	1526.9
60°	1154.1	1512.3	1611.6	1479.7	1370.6
62.5°	980.0	1347.9	1442.3	1326.7	1204.6
65°	823.7	1188.3	1274.6	1168.8	1040.2
67.5°	685.3	1053.2	1131.3	989.7	867.6
70°	555.1	932.8	986.5	828.6	717.9
72.5°	439.5	820.4	838.3	673.9	576.3
75°	343.5	724.4	682.1	545.3	460.7
77.5°	255.6	639.7	550.2	433.0	361.4
80°	185.6	555.1	433.0	330.5	278.4
82.5°	128.6	457.4	332.1	249.1	205.1
85°	74.9	361.4	242.5	180.7	141.6
87.5°	27.7	293.0	177.4	122.1	94.4
90°	3.3	231.2	133.5	87.9	61.9
92.5°	1.6	195.3	110.7	73.3	50.5
95°	0.0	161.2	99.3	66.7	47.2
97.5°	0.0	127.0	91.2	65.1	47.2
100°	0.0	83.0	84.6	61.9	45.6
102.5°	0.0	47.2	79.8	61.9	47.2
105°	0.0	40.7	73.3	63.5	48.8
107.5°	0.0	37.4	65.1	66.7	52.1
110°	0.0	35.8	42.3	68.4	55.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	32.6	16.3	70.0	58.6
115°	0.0	30.9	13.0	48.8	55.3
117.5°	0.0	29.3	13.0	34.2	35.8
120°	1.6	26.0	13.0	9.8	9.8
122.5°	1.6	24.4	11.4	9.8	0.0
125°	1.6	22.8	11.4	9.8	0.0
127.5°	1.6	19.5	11.4	11.4	0.0
130°	1.6	17.9	11.4	9.8	0.0
132.5°	1.6	16.3	11.4	11.4	0.0
135°	1.6	13.0	11.4	11.4	0.0
137.5°	1.6	11.4	9.8	11.4	0.0
140°	1.6	9.8	9.8	11.4	0.0
142.5°	1.6	8.1	9.8	11.4	0.0
145°	1.6	6.5	8.1	9.8	0.0
147.5°	1.6	4.9	8.1	9.8	0.0
150°	1.6	4.9	6.5	9.8	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)