

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: P232632

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P232632  
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: 4SKB1-LD5-8-N-UNV-L850-CD1-RS-U  
Description: METALUX SKYBAR 4' WAVESTREAM STRIP  
WITH NARROW LENS AND REFLECTOR  
Light Source: (238) 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8822.0 lumens  
Efficiency: N/A  
Efficacy: 135.2 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.5 / 1.49  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.29')  
CIE Type: Direct

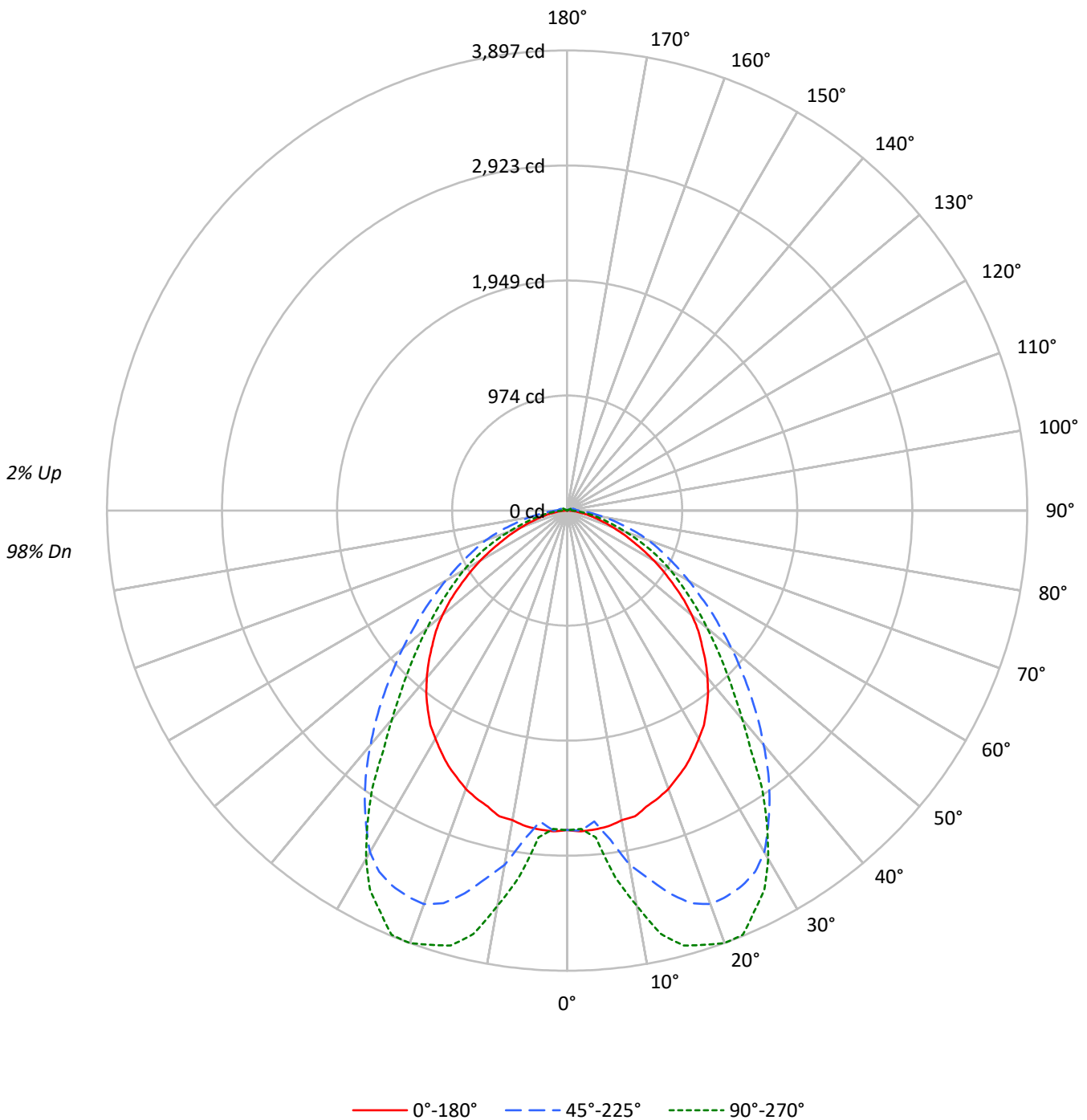
Input Watts (W): 65.23  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	29123	29123	29123
5°	29100	26514	27232
10°	28731	28817	30813
15°	28366	30284	32372
20°	27982	30800	31334
25°	27370	29557	28822
30°	26603	27566	25288
35°	25725	24337	20834
40°	24481	20963	16374
45°	22913	17763	13285
50°	21240	14907	10843
55°	18801	12369	8859
60°	16260	10154	7200
65°	13372	8309	5576
70°	10726	6714	3959
75°	8278	4895	2638
80°	5999	3314	1670
85°	3718	2004	899



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	270.7	3.1
10°-20°	923.8	10.5
20°-30°	1514.8	17.2
30°-40°	1712.4	19.4
40°-50°	1542.8	17.5
50°-60°	1215.6	13.8
60°-70°	836.1	9.5
70°-80°	466.2	5.3
80°-90°	189.2	2.1
90°-100°	72.0	0.8
100°-110°	40.2	0.5
110°-120°	22.0	0.2
120°-130°	7.5	0.1
130°-140°	5.2	0.1
140°-150°	3.1	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2709.4	30.7
0°-40°	4421.8	50.1
0°-60°	7180.2	81.4
0°-90°	8671.8	98.3
90°-120°	134.1	1.5
90°-150°	150.0	1.7
90°-180°	150.0	1.7
0°-180°	8822.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2706	2706	2706	2706	2706	
5°	2710	2721	2642	2760	2778	257
15°	2595	2793	3356	3745	3813	734
25°	2383	2881	3506	3766	3747	1096
35°	2058	2595	2989	2946	2881	1285
45°	1615	2017	2190	2023	1891	1248
55°	1106	1395	1484	1355	1259	992
65°	607	876	940	862	767	609
75°	253	534	503	402	340	274
85°	55	266	179	133	104	62
90°	2	170	98	65	46	4
95°	0	119	73	49	35	0
105°	0	30	54	47	36	0
115°	0	23	10	36	41	0
125°	1	17	8	7	0	1
135°	1	10	8	8	0	1
145°	1	5	6	7	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°	2705.6	2705.6	2705.6	2705.6	2705.6
2.5°	2718.8	2714.0	2711.6	2734.4	2698.4
5°	2710.4	2721.2	2642.0	2759.6	2777.6
7.5°	2696.0	2664.8	2812.4	3071.6	3134.0
10°	2662.4	2628.8	3044.0	3330.7	3399.1
12.5°	2652.8	2697.2	3192.8	3577.9	3673.9
15°	2595.2	2793.2	3355.9	3744.7	3813.1
17.5°	2555.6	2861.6	3486.7	3808.3	3856.3
20°	2507.7	2882.0	3546.7	3844.3	3897.1
22.5°	2444.1	2902.4	3535.9	3845.5	3888.7
25°	2382.9	2880.8	3505.9	3766.3	3747.1
27.5°	2308.5	2832.8	3448.3	3646.3	3618.7
30°	2230.5	2781.2	3340.3	3451.9	3405.1
32.5°	2154.9	2704.4	3167.6	3201.2	3147.2
35°	2057.7	2595.2	2988.8	2945.6	2880.8
37.5°	1959.3	2466.9	2798.0	2684.0	2554.4
40°	1848.9	2321.7	2589.2	2456.1	2306.1
42.5°	1735.0	2166.9	2391.3	2229.3	2085.3
45°	1615.0	2016.9	2189.7	2022.9	1890.9
47.5°	1507.0	1864.5	2000.1	1828.5	1713.4
50°	1378.6	1706.2	1820.1	1654.6	1547.8
52.5°	1249.0	1553.8	1641.4	1496.2	1399.0
55°	1106.2	1395.4	1484.2	1354.6	1258.6
57.5°	975.5	1255.0	1324.6	1222.6	1125.4
60°	850.7	1114.6	1187.8	1090.6	1010.3
62.5°	722.3	993.5	1063.1	977.9	887.9
65°	607.1	875.9	939.5	861.5	766.7
67.5°	505.1	776.3	833.9	729.5	639.5
70°	409.1	687.5	727.1	610.7	529.1
72.5°	324.0	604.7	617.9	496.7	424.7
75°	253.2	533.9	502.7	401.9	339.6
77.5°	188.4	471.5	405.5	319.2	266.4
80°	136.8	409.1	319.2	243.6	205.2
82.5°	94.8	337.2	244.8	183.6	151.2
85°	55.2	266.4	178.8	133.2	104.4
87.5°	20.4	216.0	130.8	90.0	69.6
90°	2.4	170.4	98.4	64.8	45.6
92.5°	1.2	144.0	81.6	54.0	37.2
95°	0.0	118.8	73.2	49.2	34.8
97.5°	0.0	93.6	67.2	48.0	34.8
100°	0.0	61.2	62.4	45.6	33.6
102.5°	0.0	34.8	58.8	45.6	34.8
105°	0.0	30.0	54.0	46.8	36.0
107.5°	0.0	27.6	48.0	49.2	38.4
110°	0.0	26.4	31.2	50.4	40.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	24.0	12.0	51.6	43.2
115°	0.0	22.8	9.6	36.0	40.8
117.5°	0.0	21.6	9.6	25.2	26.4
120°	1.2	19.2	9.6	7.2	7.2
122.5°	1.2	18.0	8.4	7.2	0.0
125°	1.2	16.8	8.4	7.2	0.0
127.5°	1.2	14.4	8.4	8.4	0.0
130°	1.2	13.2	8.4	7.2	0.0
132.5°	1.2	12.0	8.4	8.4	0.0
135°	1.2	9.6	8.4	8.4	0.0
137.5°	1.2	8.4	7.2	8.4	0.0
140°	1.2	7.2	7.2	8.4	0.0
142.5°	1.2	6.0	7.2	8.4	0.0
145°	1.2	4.8	6.0	7.2	0.0
147.5°	1.2	3.6	6.0	7.2	0.0
150°	1.2	3.6	4.8	7.2	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)