

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: P#

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P#  
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-LD5-8-N-RS-UNV-L850-CD1-RS-U  
Description: METALUX SKYBAR 8' WAVESTREAM STRIP  
WITH NARROW LENS AND REFLECTOR  
Light Source: (392) 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

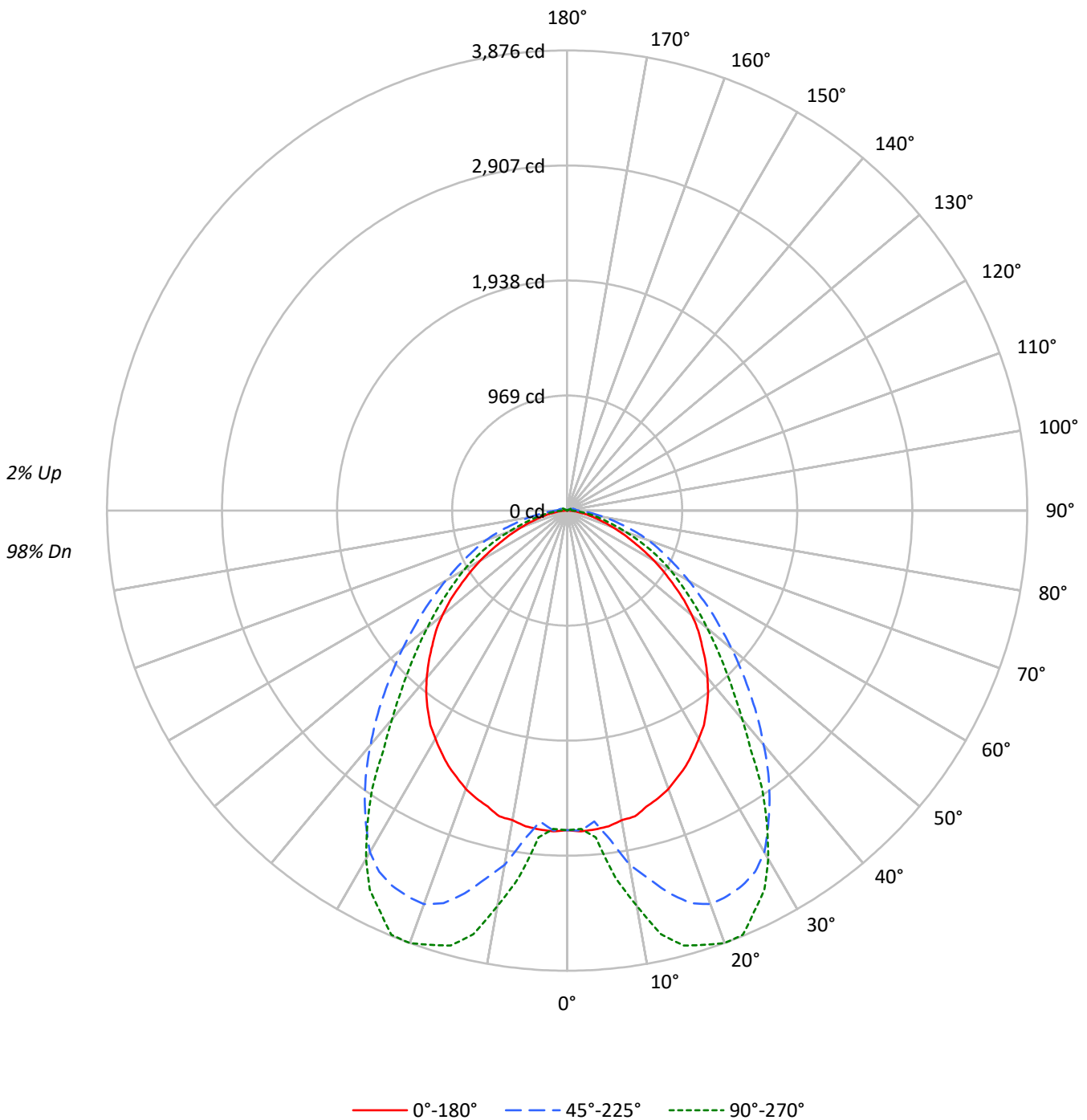
Lumens per Lamp: N/A  
Luminaire Lumens: 8775.1 lumens  
Efficiency: N/A  
Efficacy: 147.5 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.5 / 1.49  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.29')  
CIE Type: Direct

Input Watts (W): 59.5  
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	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°	14484	14484	14484
5°	14519	13214	13544
10°	14380	14388	15325
15°	14244	15146	16100
20°	14099	15428	15583
25°	13840	14826	14334
30°	13503	13847	12577
35°	13113	12241	10362
40°	12537	10557	8143
45°	11797	8957	6607
50°	11004	7527	5392
55°	9814	6254	4406
60°	8567	5141	3581
65°	7133	4213	2773
70°	5821	3410	1969
75°	4609	2491	1312
80°	3495	1689	831
85°	2393	1024	447



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	269.3	3.1
10°-20°	918.9	10.5
20°-30°	1506.8	17.2
30°-40°	1703.3	19.4
40°-50°	1534.6	17.5
50°-60°	1209.2	13.8
60°-70°	831.7	9.5
70°-80°	463.7	5.3
80°-90°	188.2	2.1
90°-100°	71.6	0.8
100°-110°	39.9	0.5
110°-120°	21.8	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°	2694.9	30.7
0°-40°	4398.2	50.1
0°-60°	7142.0	81.4
0°-90°	8625.6	98.3
90°-120°	133.4	1.5
90°-150°	149.2	1.7
90°-180°	149.0	1.7
0°-180°	8775.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2691	2691	2691	2691	2691	
5°	2696	2707	2628	2745	2763	256
15°	2581	2778	3338	3725	3793	730
25°	2370	2866	3487	3746	3727	1090
35°	2047	2581	2973	2930	2866	1278
45°	1606	2006	2178	2012	1881	1241
55°	1100	1388	1476	1347	1252	987
65°	604	871	934	857	763	606
75°	252	531	500	400	338	272
85°	55	265	178	132	104	62
90°	2	170	98	64	45	4
95°	0	118	73	49	35	0
105°	0	30	54	46	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



TEST NUMBER: P#

CATALOG NUMBER: 8SKB1-LD5-8-N-RS-UNV-L850-CD1-RS-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2691.2	2691.2	2691.2	2691.2	2691.2
2.5°	2704.3	2699.6	2697.2	2719.9	2684.1
5°	2696.0	2706.7	2628.0	2744.9	2762.8
7.5°	2681.7	2650.6	2797.4	3055.2	3117.3
10°	2648.2	2614.8	3027.8	3313.0	3381.0
12.5°	2638.7	2682.9	3175.7	3558.8	3654.3
15°	2581.4	2778.3	3338.1	3724.7	3792.8
17.5°	2542.0	2846.4	3468.1	3788.0	3835.7
20°	2494.3	2866.6	3527.8	3823.8	3876.3
22.5°	2431.0	2886.9	3517.1	3825.0	3867.9
25°	2370.2	2865.5	3487.2	3746.2	3727.1
27.5°	2296.2	2817.7	3430.0	3626.9	3599.4
30°	2218.6	2766.4	3322.5	3433.5	3387.0
32.5°	2143.4	2690.0	3150.7	3184.1	3130.4
35°	2046.8	2581.4	2972.9	2929.9	2865.5
37.5°	1948.9	2453.7	2783.1	2669.7	2540.8
40°	1839.1	2309.3	2575.4	2443.0	2293.8
42.5°	1725.7	2155.4	2378.5	2217.4	2074.2
45°	1606.4	2006.2	2178.0	2012.1	1880.9
47.5°	1499.0	1854.6	1989.5	1818.8	1704.2
50°	1371.3	1697.1	1810.5	1645.8	1539.5
52.5°	1242.4	1545.5	1632.6	1488.2	1391.6
55°	1100.4	1388.0	1476.3	1347.4	1251.9
57.5°	970.3	1248.3	1317.6	1216.1	1119.4
60°	846.2	1108.7	1181.5	1084.8	1004.9
62.5°	718.5	988.2	1057.4	972.7	883.1
65°	603.9	871.2	934.5	856.9	762.6
67.5°	502.4	772.2	829.4	725.6	636.1
70°	407.0	683.8	723.2	607.5	526.3
72.5°	322.2	601.5	614.6	494.1	422.5
75°	251.8	531.1	500.1	399.8	337.7
77.5°	187.4	469.0	403.4	317.5	264.9
80°	136.1	407.0	317.5	242.3	204.1
82.5°	94.3	335.4	243.5	182.6	150.4
85°	54.9	264.9	177.8	132.5	103.8
87.5°	20.3	214.8	130.1	89.5	69.2
90°	2.4	169.5	97.9	64.4	45.4
92.5°	1.2	143.2	81.2	53.7	37.0
95°	0.0	118.2	72.8	48.9	34.6
97.5°	0.0	93.1	66.8	47.7	34.6
100°	0.0	60.9	62.1	45.4	33.4
102.5°	0.0	34.6	58.5	45.4	34.6
105°	0.0	29.8	53.7	46.5	35.8
107.5°	0.0	27.4	47.7	48.9	38.2
110°	0.0	26.3	31.0	50.1	40.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	23.9	11.9	51.3	43.0
115°	0.0	22.7	9.5	35.8	40.6
117.5°	0.0	21.5	9.5	25.1	26.3
120°	1.2	19.1	9.5	7.2	7.2
122.5°	1.2	17.9	8.4	7.2	0.0
125°	1.2	16.7	8.4	7.2	0.0
127.5°	1.2	14.3	8.4	8.4	0.0
130°	1.2	13.1	8.4	7.2	0.0
132.5°	1.2	11.9	8.4	8.4	0.0
135°	1.2	9.5	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)