

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: P232557

Luminaire Tested: **8SKB1-LD5-14-N-UNV-L850-CD2-RS-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P232557  
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-LD5-14-N-UNV-L850-CD2-RS-U  
Description: METALUX SKYBAR 8' WAVESTREAM STRIP  
WITH NARROW LENS AND REFLECTOR  
Light Source: (476) 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15169.0 lumens  
Efficiency: N/A  
Efficacy: 143.9 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

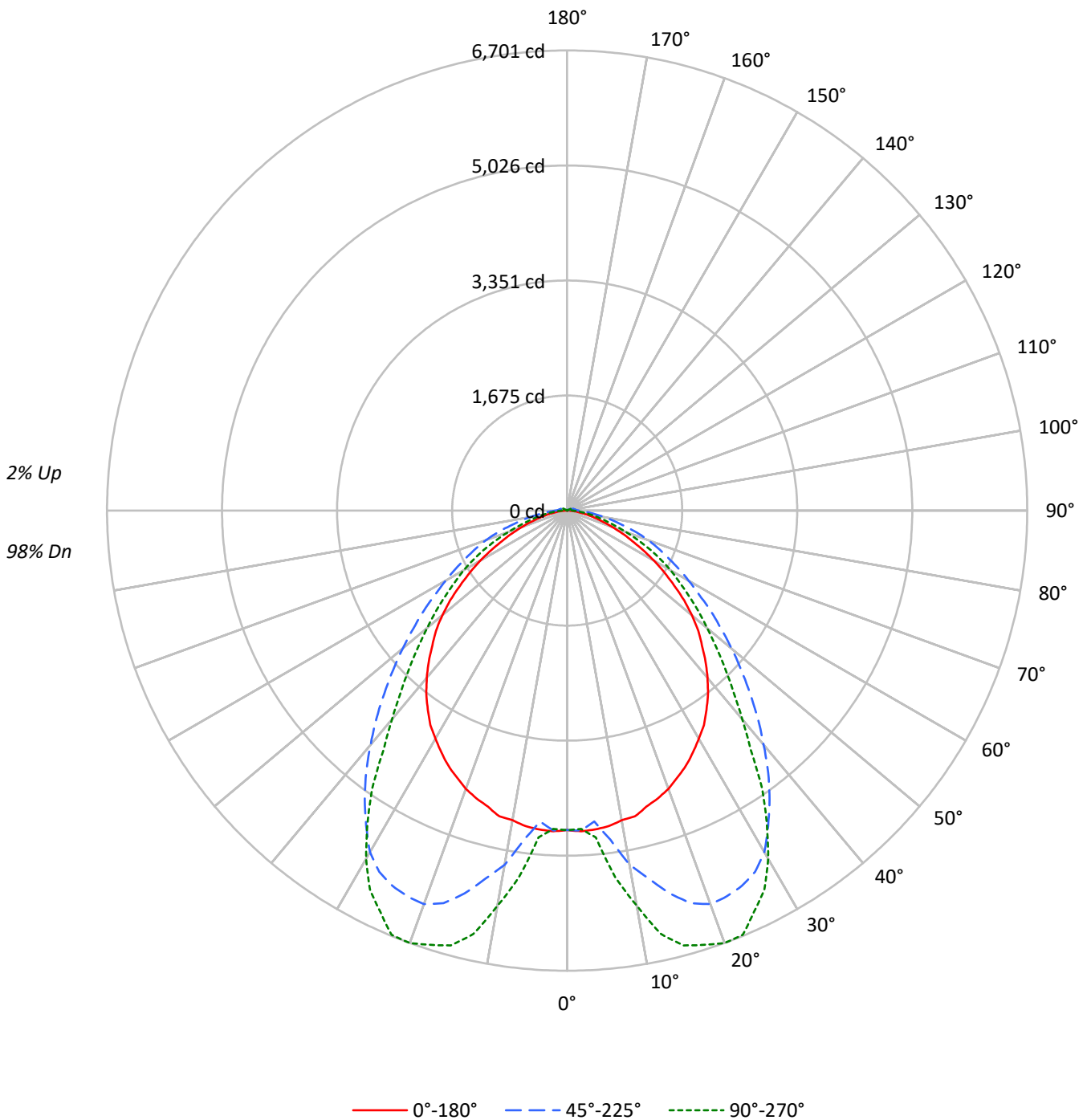
Input Watts (W): 105.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	25038	25038	25038
5°	25098	22842	23413
10°	24858	24873	26491
15°	24623	26183	27831
20°	24372	26669	26939
25°	23924	25630	24779
30°	23343	23936	21741
35°	22667	21160	17912
40°	21673	18250	14077
45°	20392	15484	11422
50°	19021	13012	9322
55°	16964	10811	7616
60°	14809	8888	6190
65°	12330	7283	4794
70°	10062	5895	3404
75°	7968	4305	2267
80°	6041	2920	1436
85°	4136	1770	773



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	465.5	3.1
10°-20°	1588.4	10.5
20°-30°	2604.7	17.2
30°-40°	2944.4	19.4
40°-50°	2652.9	17.5
50°-60°	2090.2	13.8
60°-70°	1437.7	9.5
70°-80°	801.6	5.3
80°-90°	325.3	2.1
90°-100°	123.8	0.8
100°-110°	69.0	0.5
110°-120°	37.8	0.2
120°-130°	12.9	0.1
130°-140°	9.0	0.1
140°-150°	5.3	0.0
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4658.6	30.7
0°-40°	7603.0	50.1
0°-60°	12346.1	81.4
0°-90°	14910.7	98.3
90°-120°	230.6	1.5
90°-150°	257.8	1.7
90°-180°	258.0	1.7
0°-180°	15169.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4652	4652	4652	4652	4652	
5°	4660	4679	4543	4745	4776	442
15°	4462	4803	5770	6439	6556	1262
25°	4097	4953	6028	6476	6443	1885
35°	3538	4462	5139	5065	4953	2209
45°	2777	3468	3765	3478	3251	2146
55°	1902	2399	2552	2329	2164	1706
65°	1044	1506	1615	1481	1318	1047
75°	435	918	864	691	584	470
85°	95	458	307	229	180	107
90°	4	293	169	111	78	6
95°	0	204	126	85	60	0
105°	0	52	93	80	62	0
115°	0	39	16	62	70	0
125°	2	29	14	12	0	2
135°	2	16	14	14	0	2
145°	2	8	10	12	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°	4652.2	4652.2	4652.2	4652.2	4652.2
2.5°	4674.9	4666.6	4662.5	4701.7	4639.8
5°	4660.4	4679.0	4542.8	4745.0	4776.0
7.5°	4635.7	4582.0	4835.8	5281.4	5388.7
10°	4577.9	4520.2	5234.0	5727.0	5844.6
12.5°	4561.4	4637.7	5489.8	6152.0	6317.1
15°	4462.4	4802.8	5770.4	6438.8	6556.4
17.5°	4394.3	4920.4	5995.2	6548.1	6630.7
20°	4311.8	4955.5	6098.4	6610.0	6700.8
22.5°	4202.4	4990.5	6079.8	6612.1	6686.4
25°	4097.2	4953.4	6028.2	6475.9	6442.9
27.5°	3969.3	4870.9	5929.2	6269.6	6222.2
30°	3835.2	4782.2	5743.5	5935.4	5855.0
32.5°	3705.2	4650.1	5446.5	5504.2	5411.4
35°	3538.1	4462.4	5139.1	5064.8	4953.4
37.5°	3369.0	4241.6	4811.0	4615.1	4392.2
40°	3179.2	3992.0	4452.1	4223.1	3965.2
42.5°	2983.2	3725.9	4111.7	3833.2	3585.6
45°	2776.9	3468.0	3765.1	3478.3	3251.4
47.5°	2591.2	3206.0	3439.1	3144.1	2946.0
50°	2370.5	2933.7	3129.7	2845.0	2661.3
52.5°	2147.6	2671.7	2822.3	2572.6	2405.5
55°	1902.1	2399.3	2552.0	2329.2	2164.1
57.5°	1677.3	2158.0	2277.6	2102.3	1935.1
60°	1462.7	1916.6	2042.4	1875.3	1737.1
62.5°	1242.0	1708.2	1827.9	1681.4	1526.7
65°	1043.9	1506.0	1615.4	1481.3	1318.3
67.5°	868.5	1334.8	1433.8	1254.3	1099.6
70°	703.5	1182.1	1250.2	1050.1	909.8
72.5°	557.0	1039.8	1062.5	854.1	730.3
75°	435.3	918.1	864.4	691.1	583.8
77.5°	323.9	810.8	697.3	548.8	458.0
80°	235.2	703.5	548.8	418.8	352.8
82.5°	163.0	579.7	420.9	315.6	259.9
85°	94.9	458.0	307.4	229.0	179.5
87.5°	35.1	371.4	224.9	154.7	119.7
90°	4.1	293.0	169.2	111.4	78.4
92.5°	2.1	247.6	140.3	92.8	64.0
95°	0.0	204.2	125.8	84.6	59.8
97.5°	0.0	160.9	115.5	82.5	59.8
100°	0.0	105.2	107.3	78.4	57.8
102.5°	0.0	59.8	101.1	78.4	59.8
105°	0.0	51.6	92.8	80.5	61.9
107.5°	0.0	47.5	82.5	84.6	66.0
110°	0.0	45.4	53.6	86.6	70.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	41.3	20.6	88.7	74.3
115°	0.0	39.2	16.5	61.9	70.1
117.5°	0.0	37.1	16.5	43.3	45.4
120°	2.1	33.0	16.5	12.4	12.4
122.5°	2.1	30.9	14.4	12.4	0.0
125°	2.1	28.9	14.4	12.4	0.0
127.5°	2.1	24.8	14.4	14.4	0.0
130°	2.1	22.7	14.4	12.4	0.0
132.5°	2.1	20.6	14.4	14.4	0.0
135°	2.1	16.5	14.4	14.4	0.0
137.5°	2.1	14.4	12.4	14.4	0.0
140°	2.1	12.4	12.4	14.4	0.0
142.5°	2.1	10.3	12.4	14.4	0.0
145°	2.1	8.3	10.3	12.4	0.0
147.5°	2.1	6.2	10.3	12.4	0.0
150°	2.1	6.2	8.3	12.4	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)