

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: P232547

Luminaire Tested: **8SKB1-LD5-8-N-UNV-L840-CD1-RS-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P232547  
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-UNV-L840-CD1-RS-U  
Description: METALUX SKYBAR 8' WAVESTREAM STRIP  
WITH NARROW LENS AND REFLECTOR  
Light Source: (392) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8506.0 lumens  
Efficiency: N/A  
Efficacy: 143.0 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

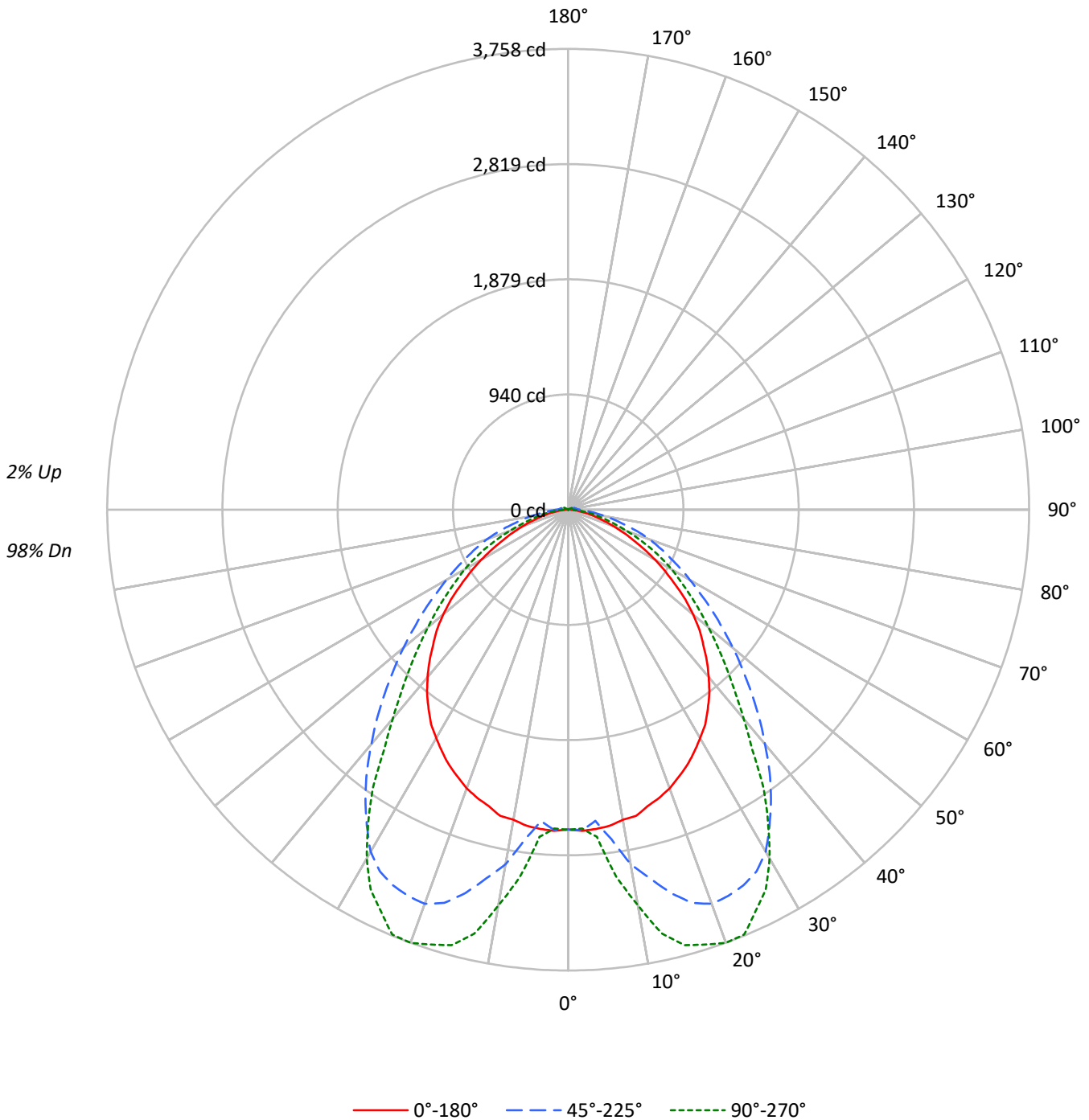
Input Watts (W): 59.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	100	100	100	98	
1	109	104	100	97	106	102	98	95	97	94	92	93	91	88	89	87	85	85	85	85	83	
2	100	92	85	80	97	90	84	79	86	81	77	82	78	75	79	76	73	73	73	73	71	
3	91	81	73	67	89	80	72	67	76	70	65	73	68	64	71	66	63	63	63	63	60	
4	84	72	64	58	82	71	63	57	68	62	56	66	60	55	63	58	54	54	54	54	52	
5	77	65	56	50	75	64	56	50	62	54	49	59	53	48	57	52	48	48	48	48	46	
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	52	47	42	42	42	42	40	
7	67	53	45	39	65	53	44	39	51	44	38	49	43	38	48	42	38	38	38	38	36	
8	62	49	41	35	60	48	40	35	47	40	34	45	39	34	44	38	34	34	34	34	32	
9	58	45	37	31	56	44	37	31	43	36	31	42	35	31	41	35	31	31	31	31	29	
10	54	41	34	29	53	41	33	28	40	33	28	39	32	28	38	32	28	28	28	28	26	

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

	0°	45°	90°
0°	14040	14040	14040
5°	14074	12809	13128
10°	13940	13947	14855
15°	13807	14682	15606
20°	13666	14955	15106
25°	13415	14372	13895
30°	13089	13422	12191
35°	12711	11865	10044
40°	12153	10234	7894
45°	11435	8683	6405
50°	10666	7296	5227
55°	9513	6062	4271
60°	8304	4984	3471
65°	6914	4084	2688
70°	5643	3306	1909
75°	4468	2414	1272
80°	3388	1637	805
85°	2319	993	433



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	261.0	3.1
10°-20°	890.7	10.5
20°-30°	1460.6	17.2
30°-40°	1651.1	19.4
40°-50°	1487.6	17.5
50°-60°	1172.1	13.8
60°-70°	806.2	9.5
70°-80°	449.5	5.3
80°-90°	182.4	2.1
90°-100°	69.4	0.8
100°-110°	38.7	0.5
110°-120°	21.2	0.2
120°-130°	7.3	0.1
130°-140°	5.0	0.1
140°-150°	3.0	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2612.3	30.7
0°-40°	4263.4	50.1
0°-60°	6923.1	81.4
0°-90°	8361.2	98.3
90°-120°	129.3	1.5
90°-150°	144.6	1.7
90°-180°	145.0	1.7
0°-180°	8506.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2609	2609	2609	2609	2609	
5°	2613	2624	2547	2661	2678	248
15°	2502	2693	3236	3610	3676	707
25°	2298	2778	3380	3631	3613	1057
35°	1984	2502	2882	2840	2778	1239
45°	1557	1945	2111	1950	1823	1203
55°	1067	1345	1431	1306	1214	957
65°	585	844	906	831	739	587
75°	244	515	485	388	327	264
85°	53	257	172	128	101	60
90°	2	164	95	62	44	3
95°	0	114	71	47	34	0
105°	0	29	52	45	35	0
115°	0	22	9	35	39	0
125°	1	16	8	7	0	1
135°	1	9	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°	2608.7	2608.7	2608.7	2608.7	2608.7
2.5°	2621.4	2616.8	2614.5	2636.5	2601.8
5°	2613.3	2623.8	2547.4	2660.8	2678.1
7.5°	2599.5	2569.4	2711.7	2961.6	3021.7
10°	2567.1	2534.7	2934.9	3211.4	3277.4
12.5°	2557.8	2600.6	3078.4	3449.7	3542.3
15°	2502.3	2693.2	3235.7	3610.5	3676.5
17.5°	2464.1	2759.1	3361.8	3671.9	3718.1
20°	2417.8	2778.8	3419.7	3706.6	3757.5
22.5°	2356.5	2798.4	3409.3	3707.7	3749.4
25°	2297.5	2777.6	3380.3	3631.4	3612.9
27.5°	2225.8	2731.3	3324.8	3515.7	3489.1
30°	2150.6	2681.6	3220.7	3328.3	3283.2
32.5°	2077.7	2607.6	3054.1	3086.5	3034.4
35°	1984.0	2502.3	2881.7	2840.1	2777.6
37.5°	1889.1	2378.5	2697.8	2587.9	2462.9
40°	1782.7	2238.5	2496.5	2368.1	2223.5
42.5°	1672.8	2089.3	2305.6	2149.4	2010.6
45°	1557.1	1944.7	2111.3	1950.5	1823.2
47.5°	1453.0	1797.8	1928.5	1763.0	1652.0
50°	1329.2	1645.0	1755.0	1595.3	1492.3
52.5°	1204.3	1498.1	1582.6	1442.6	1348.9
55°	1066.6	1345.4	1431.0	1306.1	1213.5
57.5°	940.5	1210.1	1277.2	1178.8	1085.1
60°	820.2	1074.7	1145.3	1051.6	974.1
62.5°	696.4	957.9	1025.0	942.8	856.1
65°	585.4	844.5	905.8	830.6	739.2
67.5°	487.0	748.5	804.0	703.4	616.6
70°	394.5	662.9	701.1	588.8	510.2
72.5°	312.4	583.1	595.8	478.9	409.5
75°	244.1	514.8	484.7	387.5	327.4
77.5°	181.6	454.6	391.0	307.7	256.8
80°	131.9	394.5	307.7	234.8	197.8
82.5°	91.4	325.1	236.0	177.0	145.8
85°	53.2	256.8	172.4	128.4	100.6
87.5°	19.7	208.2	126.1	86.8	67.1
90°	2.3	164.3	94.9	62.5	44.0
92.5°	1.2	138.8	78.7	52.1	35.9
95°	0.0	114.5	70.6	47.4	33.5
97.5°	0.0	90.2	64.8	46.3	33.5
100°	0.0	59.0	60.2	44.0	32.4
102.5°	0.0	33.5	56.7	44.0	33.5
105°	0.0	28.9	52.1	45.1	34.7
107.5°	0.0	26.6	46.3	47.4	37.0
110°	0.0	25.5	30.1	48.6	39.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	23.1	11.6	49.7	41.6
115°	0.0	22.0	9.3	34.7	39.3
117.5°	0.0	20.8	9.3	24.3	25.5
120°	1.2	18.5	9.3	6.9	6.9
122.5°	1.2	17.4	8.1	6.9	0.0
125°	1.2	16.2	8.1	6.9	0.0
127.5°	1.2	13.9	8.1	8.1	0.0
130°	1.2	12.7	8.1	6.9	0.0
132.5°	1.2	11.6	8.1	8.1	0.0
135°	1.2	9.3	8.1	8.1	0.0
137.5°	1.2	8.1	6.9	8.1	0.0
140°	1.2	6.9	6.9	8.1	0.0
142.5°	1.2	5.8	6.9	8.1	0.0
145°	1.2	4.6	5.8	6.9	0.0
147.5°	1.2	3.5	5.8	6.9	0.0
150°	1.2	3.5	4.6	6.9	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)