

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: P232531

Luminaire Tested: **8SKB1-LD5-10-W-UNV-L835-CD1-RS-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P232531  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1709-317-7)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SKB1-LD5-10-W-UNV-L835-CD1-RS-U  
Description: METALUX SKYBAR 8' WAVESTREAM STRIP  
WITH WIDE LENS AND REFLECTOR  
Light Source: (392) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9177.0 lumens  
Efficiency: N/A  
Efficacy: 118.6 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.47 / 1.44  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.29')  
CIE Type: Direct

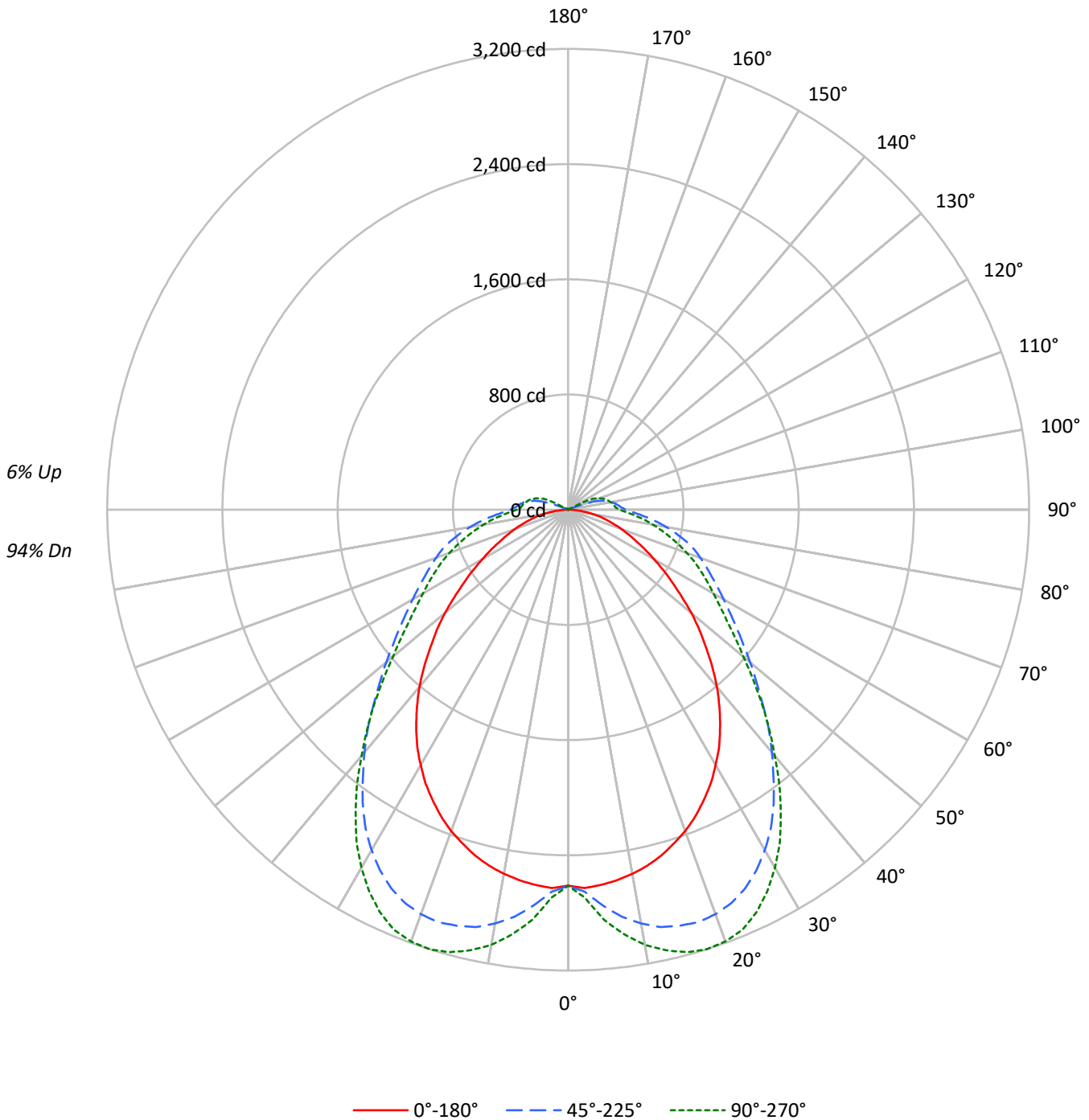
Input Watts (W): 77.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94				
1	106	101	96	91	103	98	93	89	92	89	85	87	84	82	83	80	78	76				
2	96	87	80	74	93	85	78	73	80	75	70	76	72	68	72	69	65	63				
3	88	77	68	62	85	75	67	61	71	64	59	67	62	57	64	59	55	53				
4	80	68	59	52	78	66	58	52	63	56	50	60	54	49	57	52	48	45				
5	74	61	52	45	71	59	51	45	57	49	44	54	48	43	52	46	42	39				
6	68	55	46	39	66	54	45	39	51	44	38	49	42	37	47	41	37	34				
7	63	50	41	35	61	49	41	35	47	39	34	45	38	33	43	37	33	31				
8	59	46	37	31	57	45	37	31	43	36	30	41	35	30	39	34	29	27				
9	55	42	34	28	54	41	33	28	39	32	27	38	32	27	37	31	27	25				
10	52	39	31	26	50	38	30	25	37	30	25	35	29	25	34	28	24	22				

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

	0°	45°	90°
0°	14050	14050	14050
5°	14081	13872	14012
10°	13939	13861	13905
15°	13729	13568	13502
20°	13425	13071	12826
25°	12994	12343	11872
30°	12460	11373	10659
35°	11780	10239	9302
40°	10949	9016	7920
45°	9935	7848	6675
50°	8956	6853	5559
55°	7866	6031	4733
60°	6960	5426	4147
65°	6174	4959	3697
70°	5627	4601	3280
75°	5057	4223	2839
80°	4441	3672	2426
85°	3265	3049	2005



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	266.8	2.9
10°-20°	829.6	9.0
20°-30°	1292.0	14.1
30°-40°	1485.5	16.2
40°-50°	1391.7	15.2
50°-60°	1170.6	12.8
60°-70°	958.9	10.4
70°-80°	746.6	8.1
80°-90°	481.1	5.2
90°-100°	296.2	3.2
100°-110°	184.1	2.0
110°-120°	60.5	0.7
120°-130°	8.2	0.1
130°-140°	3.8	0.0
140°-150°	1.3	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2388.3	26.0
0°-40°	3873.8	42.2
0°-60°	6436.1	70.1
0°-90°	8622.7	94.0
90°-120°	540.9	5.9
90°-150°	554.3	6.0
90°-180°	554.0	6.0
0°-180°	9177.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2611	2611	2611	2611	2611	
5°	2615	2669	2759	2849	2858	248
15°	2488	2767	2990	3158	3181	700
25°	2225	2631	2903	3071	3087	1024
35°	1839	2247	2487	2589	2572	1147
45°	1353	1730	1908	1941	1900	1046
55°	882	1263	1424	1399	1345	795
65°	523	932	1100	1054	1017	525
75°	276	710	848	766	731	295
85°	75	468	530	483	466	82
90°	4	325	399	368	357	6
95°	0	246	348	332	321	0
105°	0	50	240	278	274	0
115°	0	34	23	112	170	0
125°	0	20	16	0	0	0
135°	0	10	10	0	0	0
145°	1	3	4	0	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°	2610.6	2610.6	2610.6	2610.6	2610.6
2.5°	2629.6	2635.1	2655.5	2708.6	2697.7
5°	2614.7	2669.1	2758.9	2848.8	2858.3
7.5°	2595.6	2715.4	2850.1	2964.5	2974.0
10°	2567.0	2746.7	2916.8	3055.7	3067.9
12.5°	2533.0	2767.1	2968.6	3121.0	3133.3
15°	2488.1	2767.1	2990.3	3157.8	3180.9
17.5°	2432.3	2756.2	3002.6	3178.2	3199.9
20°	2375.1	2730.4	2989.0	3170.0	3190.4
22.5°	2305.7	2689.5	2956.3	3133.3	3157.8
25°	2225.4	2631.0	2903.2	3070.6	3087.0
27.5°	2143.7	2557.5	2825.6	2978.1	2990.3
30°	2047.1	2466.3	2729.0	2865.1	2870.6
32.5°	1950.5	2369.7	2620.1	2738.5	2734.4
35°	1838.8	2247.2	2486.7	2588.8	2572.5
37.5°	1723.2	2128.8	2341.1	2424.1	2407.8
40°	1606.1	1998.1	2199.5	2256.7	2230.8
42.5°	1479.5	1862.0	2058.0	2094.7	2063.4
45°	1352.9	1730.0	1908.3	1940.9	1900.1
47.5°	1235.9	1599.3	1772.2	1777.6	1738.1
50°	1116.1	1480.9	1648.3	1642.8	1587.0
52.5°	993.6	1366.5	1531.2	1517.6	1460.5
55°	882.0	1263.1	1423.7	1399.2	1344.8
57.5°	784.0	1167.8	1331.2	1293.0	1248.1
60°	687.4	1080.7	1246.8	1204.6	1163.7
62.5°	604.3	999.0	1169.2	1125.6	1090.2
65°	522.7	932.4	1099.8	1053.5	1016.7
67.5°	454.6	865.7	1037.2	985.4	950.0
70°	393.4	809.9	975.9	916.0	876.5
72.5°	333.5	760.9	917.4	837.1	803.0
75°	276.3	710.5	848.0	766.3	730.9
77.5°	227.3	664.2	769.0	691.4	662.9
80°	172.9	616.6	690.1	620.7	596.2
82.5°	122.5	548.5	612.5	549.9	532.2
85°	74.9	468.2	529.5	483.2	465.5
87.5°	32.7	386.6	456.0	417.9	405.6
90°	4.1	325.3	398.8	367.5	356.6
92.5°	1.4	285.8	368.9	343.0	330.7
95°	0.0	246.4	348.4	332.1	321.2
97.5°	0.0	200.1	329.4	322.6	311.7
100°	0.0	129.3	304.9	309.0	299.4
102.5°	0.0	54.4	276.3	294.0	285.8
105°	0.0	50.4	239.6	277.7	273.6
107.5°	0.0	46.3	189.2	255.9	253.2
110°	0.0	42.2	98.0	230.0	231.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	38.1	24.5	196.0	204.2
115°	0.0	34.0	23.1	111.6	170.1
117.5°	0.0	31.3	20.4	1.4	58.5
120°	0.0	27.2	19.1	1.4	0.0
122.5°	0.0	23.1	17.7	0.0	0.0
125°	0.0	20.4	16.3	0.0	0.0
127.5°	0.0	17.7	13.6	0.0	0.0
130°	0.0	15.0	12.2	0.0	0.0
132.5°	0.0	12.2	10.9	0.0	0.0
135°	0.0	9.5	9.5	0.0	0.0
137.5°	0.0	8.2	8.2	0.0	0.0
140°	0.0	5.4	6.8	0.0	0.0
142.5°	1.4	4.1	5.4	0.0	0.0
145°	1.4	2.7	4.1	0.0	0.0
147.5°	1.4	2.7	4.1	0.0	0.0
150°	1.4	1.4	2.7	0.0	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)