

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: P232549

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P232549  
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-LD5-10-N-UNV-L835-CD1-RS-U  
Description: METALUX SKYBAR 8' WAVESTREAM STRIP  
WITH NARROW LENS AND REFLECTOR  
Light Source: (392) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10007.0 lumens  
Efficiency: N/A  
Efficacy: 129.3 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

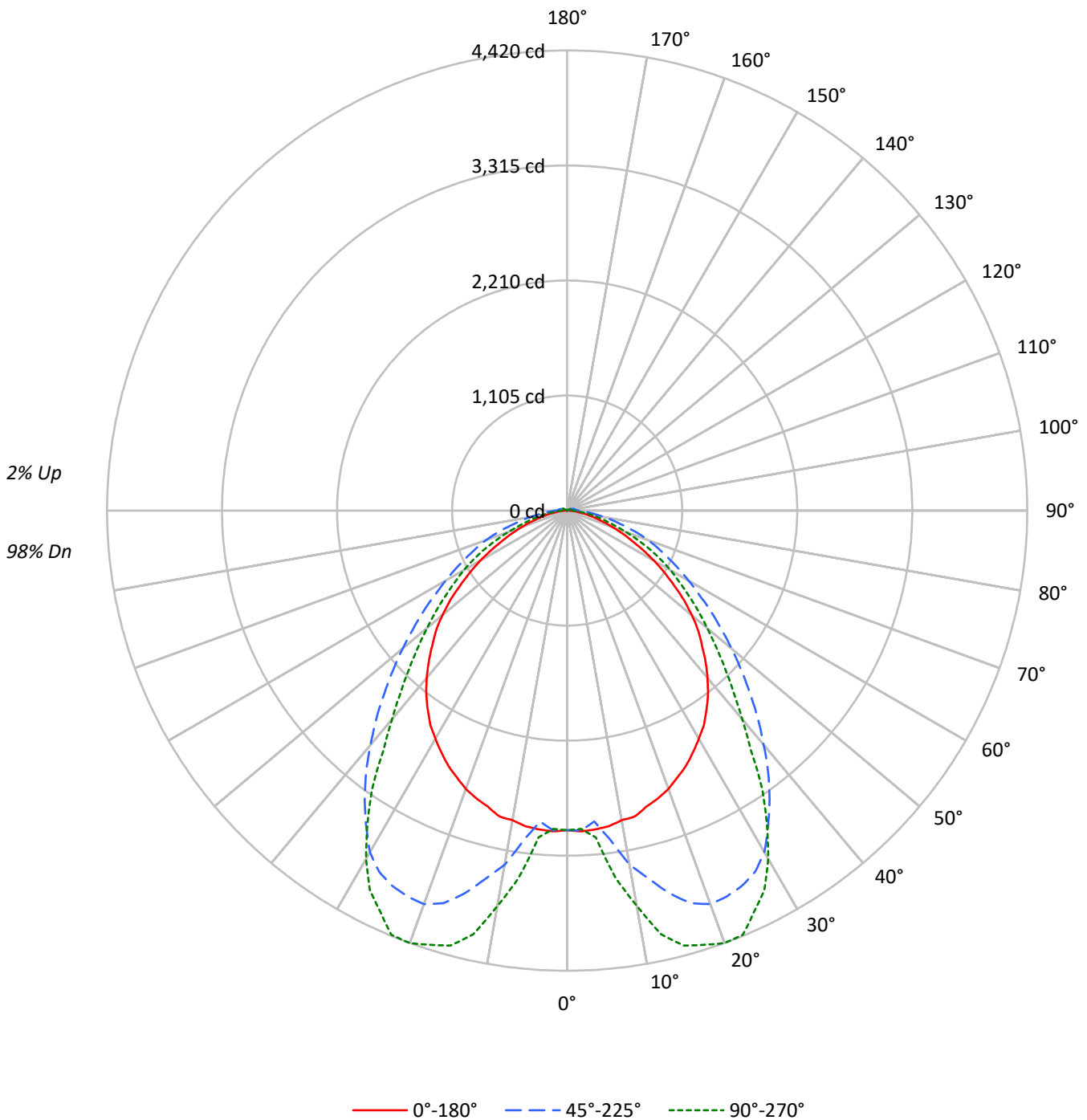
Input Watts (W): 77.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	16518	16518	16518
5°	16557	15069	15445
10°	16399	16409	17476
15°	16244	17273	18360
20°	16078	17594	17771
25°	15782	16908	16347
30°	15399	15791	14343
35°	14954	13959	11817
40°	14297	12040	9286
45°	13453	10215	7535
50°	12548	8584	6150
55°	11191	7132	5024
60°	9769	5863	4084
65°	8134	4805	3163
70°	6638	3889	2246
75°	5257	2840	1496
80°	3986	1926	947
85°	2729	1168	510



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	307.1	3.1
10°-20°	1047.9	10.5
20°-30°	1718.3	17.2
30°-40°	1942.4	19.4
40°-50°	1750.1	17.5
50°-60°	1378.9	13.8
60°-70°	948.4	9.5
70°-80°	528.8	5.3
80°-90°	214.6	2.1
90°-100°	81.7	0.8
100°-110°	45.5	0.5
110°-120°	24.9	0.2
120°-130°	8.5	0.1
130°-140°	5.9	0.1
140°-150°	3.5	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3073.3	30.7
0°-40°	5015.7	50.1
0°-60°	8144.7	81.4
0°-90°	9836.6	98.3
90°-120°	152.1	1.5
90°-150°	170.1	1.7
90°-180°	170.0	1.7
0°-180°	10007.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3069	3069	3069	3069	3069	
5°	3074	3087	2997	3130	3151	292
15°	2944	3168	3807	4248	4325	832
25°	2703	3268	3977	4272	4250	1243
35°	2334	2944	3390	3341	3268	1458
45°	1832	2288	2484	2295	2145	1416
55°	1255	1583	1684	1537	1428	1126
65°	689	994	1066	977	870	691
75°	287	606	570	456	385	310
85°	63	302	203	151	118	70
90°	3	193	112	74	52	4
95°	0	135	83	56	40	0
105°	0	34	61	53	41	0
115°	0	26	11	41	46	0
125°	1	19	10	8	0	1
135°	1	11	10	10	0	1
145°	1	5	7	8	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°	3069.1	3069.1	3069.1	3069.1	3069.1
2.5°	3084.0	3078.6	3075.9	3101.7	3060.9
5°	3074.5	3086.7	2996.9	3130.3	3150.7
7.5°	3058.2	3022.8	3190.2	3484.2	3554.9
10°	3020.1	2981.9	3452.9	3778.1	3855.7
12.5°	3009.2	3059.5	3621.6	4058.5	4167.4
15°	2943.8	3168.4	3806.7	4247.7	4325.3
17.5°	2898.9	3246.0	3955.1	4319.8	4374.3
20°	2844.5	3269.1	4023.1	4360.6	4420.5
22.5°	2772.4	3292.3	4010.9	4362.0	4411.0
25°	2702.9	3267.8	3976.8	4272.2	4250.4
27.5°	2618.6	3213.3	3911.5	4136.1	4104.8
30°	2530.1	3154.8	3789.0	3915.6	3862.5
32.5°	2444.4	3067.7	3593.0	3631.1	3569.9
35°	2334.1	2943.8	3390.2	3341.3	3267.8
37.5°	2222.5	2798.2	3173.9	3044.6	2897.6
40°	2097.3	2633.5	2937.0	2786.0	2615.8
42.5°	1968.0	2458.0	2712.5	2528.7	2365.4
45°	1831.9	2287.8	2483.8	2294.6	2144.9
47.5°	1709.4	2115.0	2268.8	2074.2	1943.5
50°	1563.8	1935.3	2064.6	1876.8	1755.7
52.5°	1416.8	1762.5	1861.8	1697.2	1586.9
55°	1254.8	1582.8	1683.6	1536.6	1427.7
57.5°	1106.5	1423.6	1502.5	1386.9	1276.6
60°	964.9	1264.4	1347.4	1237.1	1146.0
62.5°	819.3	1126.9	1205.8	1109.2	1007.1
65°	688.7	993.5	1065.7	977.2	869.7
67.5°	573.0	880.6	945.9	827.5	725.4
70°	464.1	779.9	824.8	692.7	600.2
72.5°	367.5	685.9	700.9	563.5	481.8
75°	287.2	605.6	570.3	455.9	385.2
77.5°	213.7	534.9	460.0	362.0	302.1
80°	155.2	464.1	362.0	276.3	232.7
82.5°	107.5	382.4	277.6	208.2	171.5
85°	62.6	302.1	202.8	151.1	118.4
87.5°	23.1	245.0	148.3	102.1	78.9
90°	2.7	193.3	111.6	73.5	51.7
92.5°	1.4	163.3	92.5	61.2	42.2
95°	0.0	134.7	83.0	55.8	39.5
97.5°	0.0	106.2	76.2	54.4	39.5
100°	0.0	69.4	70.8	51.7	38.1
102.5°	0.0	39.5	66.7	51.7	39.5
105°	0.0	34.0	61.2	53.1	40.8
107.5°	0.0	31.3	54.4	55.8	43.6
110°	0.0	29.9	35.4	57.2	46.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	27.2	13.6	58.5	49.0
115°	0.0	25.9	10.9	40.8	46.3
117.5°	0.0	24.5	10.9	28.6	29.9
120°	1.4	21.8	10.9	8.2	8.2
122.5°	1.4	20.4	9.5	8.2	0.0
125°	1.4	19.1	9.5	8.2	0.0
127.5°	1.4	16.3	9.5	9.5	0.0
130°	1.4	15.0	9.5	8.2	0.0
132.5°	1.4	13.6	9.5	9.5	0.0
135°	1.4	10.9	9.5	9.5	0.0
137.5°	1.4	9.5	8.2	9.5	0.0
140°	1.4	8.2	8.2	9.5	0.0
142.5°	1.4	6.8	8.2	9.5	0.0
145°	1.4	5.4	6.8	8.2	0.0
147.5°	1.4	4.1	6.8	8.2	0.0
150°	1.4	4.1	5.4	8.2	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)