

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: P232533

Luminaire Tested: **8SKB1-LD5-10-W-UNV-L850-CD1-RS-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232533
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-L850-CD1-RS-U
Description: METALUX SKYBAR 8' WAVESTREAM STRIP
WITH WIDE LENS AND REFLECTOR
Light Source: (392) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10125.0 lumens
Efficiency: N/A
Efficacy: 130.8 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

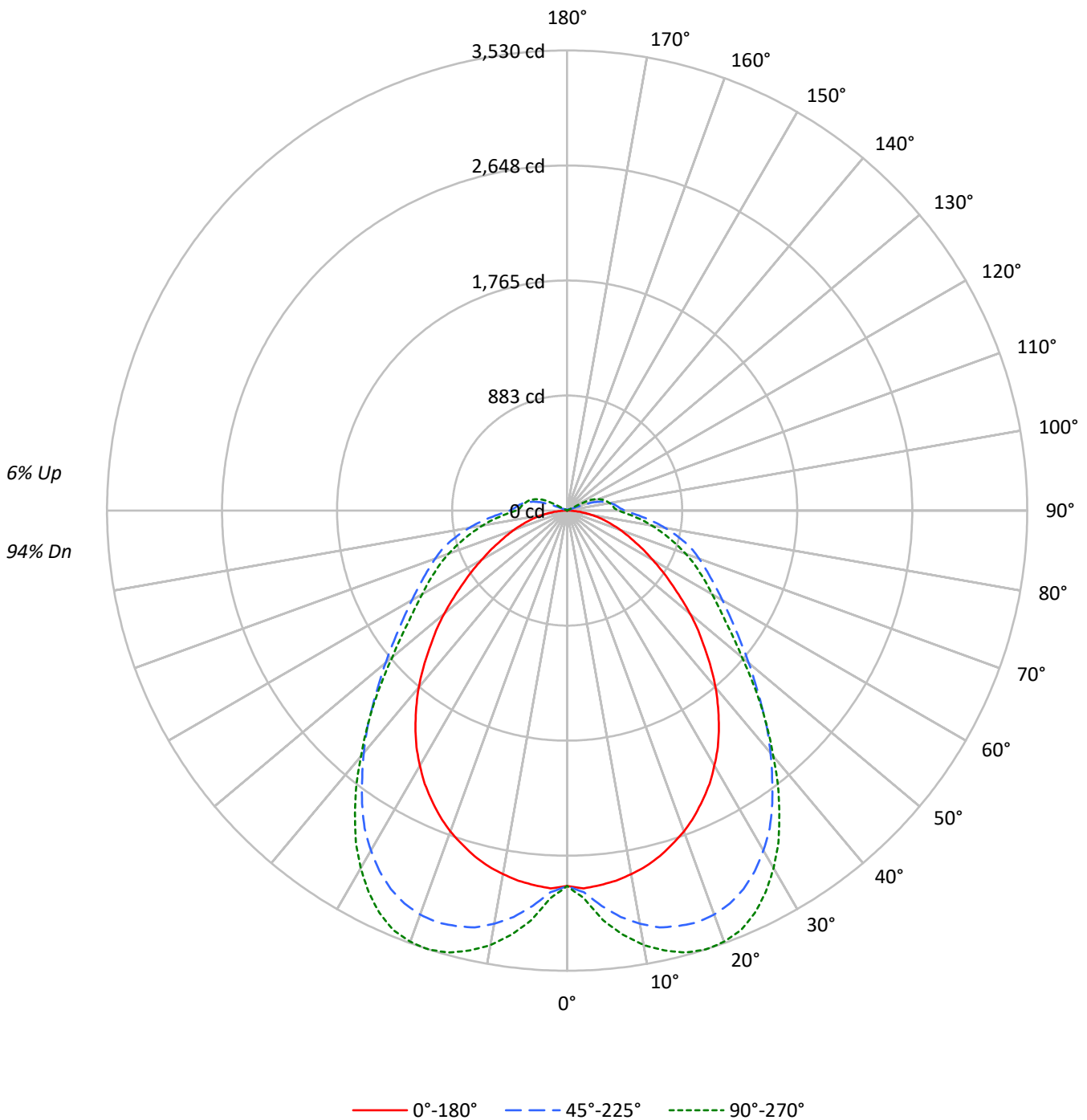
Input Watts (W): 77.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	15502	15502	15502
5°	15536	15306	15459
10°	15379	15293	15342
15°	15147	14970	14897
20°	14812	14421	14151
25°	14337	13618	13099
30°	13747	12548	11760
35°	12998	11296	10263
40°	12080	9948	8738
45°	10962	8658	7364
50°	9881	7561	6133
55°	8679	6654	5222
60°	7678	5986	4575
65°	6812	5471	4079
70°	6208	5077	3619
75°	5579	4660	3132
80°	4898	4051	2676
85°	3600	3364	2212



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.3	2.9
10°-20°	915.3	9.0
20°-30°	1425.4	14.1
30°-40°	1638.9	16.2
40°-50°	1535.5	15.2
50°-60°	1291.6	12.8
60°-70°	1057.9	10.4
70°-80°	823.7	8.1
80°-90°	530.8	5.2
90°-100°	326.8	3.2
100°-110°	203.1	2.0
110°-120°	66.8	0.7
120°-130°	9.1	0.1
130°-140°	4.2	0.0
140°-150°	1.5	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2635.0	26.0
0°-40°	4274.0	42.2
0°-60°	7101.0	70.1
0°-90°	9513.4	94.0
90°-120°	596.7	5.9
90°-150°	611.5	6.0
90°-180°	612.0	6.0
0°-180°	10125.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2880	2880	2880	2880	2880	
5°	2885	2945	3044	3143	3154	274
15°	2745	3053	3299	3484	3510	773
25°	2455	2903	3203	3388	3406	1130
35°	2029	2479	2744	2856	2838	1266
45°	1493	1909	2105	2141	2096	1154
55°	973	1394	1571	1544	1484	877
65°	577	1029	1213	1162	1122	579
75°	305	784	936	846	806	326
85°	83	517	584	533	514	90
90°	4	359	440	406	393	6
95°	0	272	384	366	354	0
105°	0	56	264	306	302	0
115°	0	38	26	123	188	0
125°	0	22	18	0	0	0
135°	0	10	10	0	0	0
145°	2	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°	2880.3	2880.3	2880.3	2880.3	2880.3
2.5°	2901.3	2907.3	2929.8	2988.4	2976.4
5°	2884.8	2944.8	3044.0	3143.1	3153.6
7.5°	2863.7	2995.9	3144.6	3270.7	3281.2
10°	2832.2	3030.4	3218.2	3371.3	3384.8
12.5°	2794.7	3053.0	3275.2	3443.4	3456.9
15°	2745.1	3053.0	3299.2	3484.0	3509.5
17.5°	2683.5	3041.0	3312.8	3506.5	3530.5
20°	2620.5	3012.4	3297.7	3497.5	3520.0
22.5°	2543.9	2967.4	3261.7	3456.9	3484.0
25°	2455.3	2902.8	3203.1	3387.8	3405.9
27.5°	2365.2	2821.7	3117.5	3285.7	3299.2
30°	2258.6	2721.1	3010.9	3161.1	3167.1
32.5°	2151.9	2614.5	2890.8	3021.4	3016.9
35°	2028.8	2479.3	2743.6	2856.2	2838.2
37.5°	1901.2	2348.7	2582.9	2674.5	2656.5
40°	1772.0	2204.5	2426.8	2489.8	2461.3
42.5°	1632.4	2054.3	2270.6	2311.1	2276.6
45°	1492.7	1908.7	2105.4	2141.4	2096.4
47.5°	1363.5	1764.5	1955.2	1961.2	1917.7
50°	1231.4	1633.9	1818.6	1812.6	1751.0
52.5°	1096.2	1507.7	1689.4	1674.4	1611.3
55°	973.1	1393.6	1570.8	1543.8	1483.7
57.5°	865.0	1288.5	1468.7	1426.6	1377.1
60°	758.4	1192.4	1375.6	1329.0	1284.0
62.5°	666.8	1102.3	1290.0	1241.9	1202.9
65°	576.7	1028.7	1213.4	1162.3	1121.8
67.5°	501.6	955.1	1144.3	1087.2	1048.2
70°	434.0	893.5	1076.7	1010.6	967.1
72.5°	367.9	839.5	1012.1	923.5	886.0
75°	304.8	783.9	935.6	845.5	806.4
77.5°	250.8	732.8	848.5	762.9	731.3
80°	190.7	680.3	761.4	684.8	657.7
82.5°	135.2	605.2	675.8	606.7	587.2
85°	82.6	516.6	584.2	533.1	513.6
87.5°	36.0	426.5	503.1	461.0	447.5
90°	4.5	358.9	440.0	405.5	393.4
92.5°	1.5	315.4	407.0	378.4	364.9
95°	0.0	271.8	384.4	366.4	354.4
97.5°	0.0	220.8	363.4	355.9	343.9
100°	0.0	142.7	336.4	340.9	330.4
102.5°	0.0	60.1	304.8	324.4	315.4
105°	0.0	55.6	264.3	306.3	301.8
107.5°	0.0	51.1	208.7	282.3	279.3
110°	0.0	46.6	108.1	253.8	255.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	42.0	27.0	216.2	225.3
115°	0.0	37.5	25.5	123.1	187.7
117.5°	0.0	34.5	22.5	1.5	64.6
120°	0.0	30.0	21.0	1.5	0.0
122.5°	0.0	25.5	19.5	0.0	0.0
125°	0.0	22.5	18.0	0.0	0.0
127.5°	0.0	19.5	15.0	0.0	0.0
130°	0.0	16.5	13.5	0.0	0.0
132.5°	0.0	13.5	12.0	0.0	0.0
135°	0.0	10.5	10.5	0.0	0.0
137.5°	0.0	9.0	9.0	0.0	0.0
140°	0.0	6.0	7.5	0.0	0.0
142.5°	1.5	4.5	6.0	0.0	0.0
145°	1.5	3.0	4.5	0.0	0.0
147.5°	1.5	3.0	4.5	0.0	0.0
150°	1.5	1.5	3.0	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)