

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: P232554

Luminaire Tested: **8SKB1-LD5-12-N-UNV-L850-CD2-RS-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232554
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-LD5-12-N-UNV-L850-CD2-RS-U
Description: METALUX SKYBAR 8' WAVESTREAM STRIP
WITH NARROW LENS AND REFLECTOR
Light Source: (392) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13206.0 lumens
Efficiency: N/A
Efficacy: 140.0 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

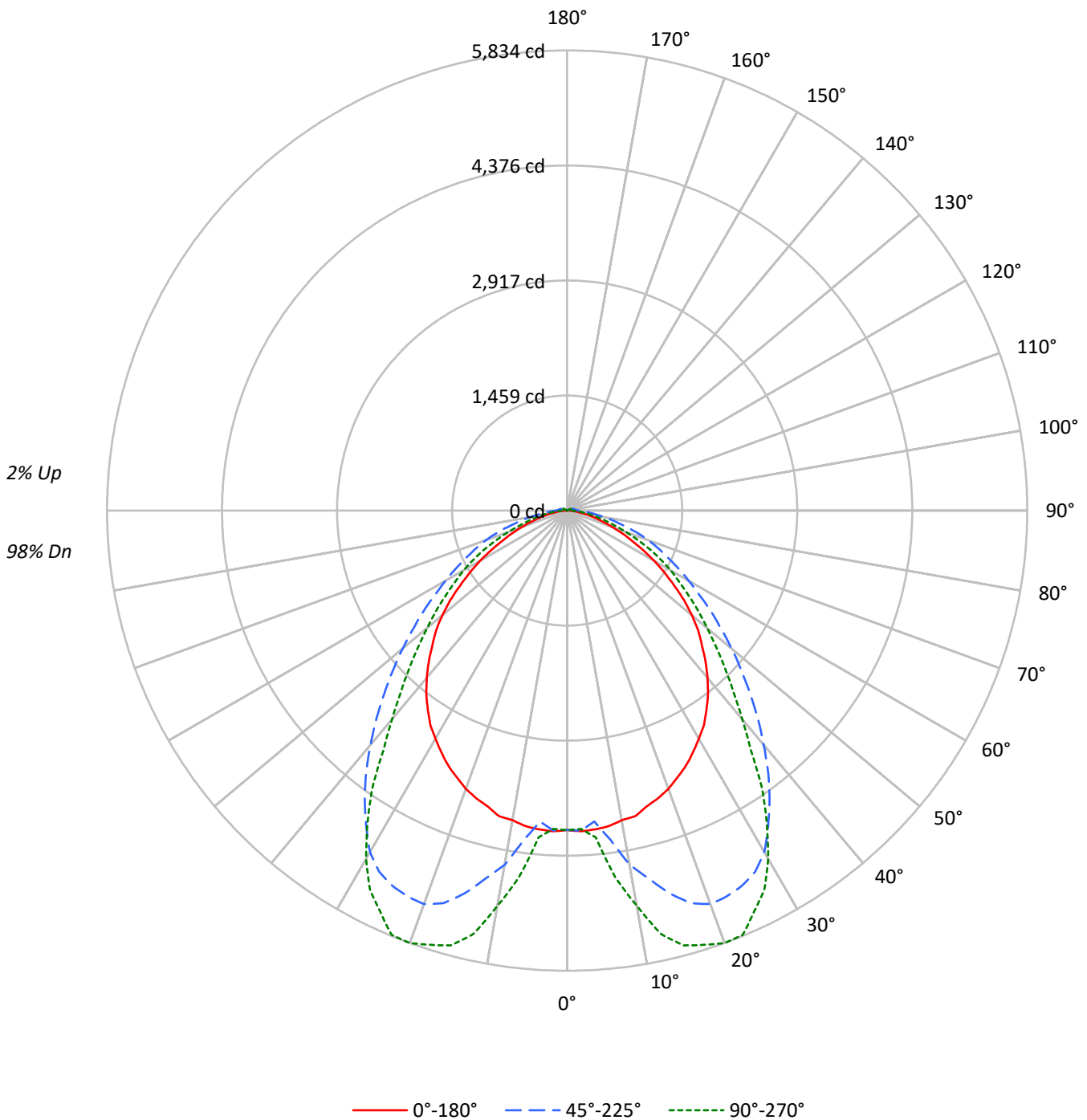
Input Watts (W): 94.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	21798	21798	21798
5°	21850	19887	20383
10°	21642	21654	23063
15°	21437	22794	24229
20°	21218	23218	23453
25°	20828	22313	21573
30°	20322	20839	18928
35°	19734	18421	15594
40°	18868	15888	12255
45°	17753	13480	9943
50°	16560	11328	8115
55°	14769	9411	6631
60°	12893	7738	5389
65°	10734	6341	4174
70°	8761	5132	2964
75°	6937	3748	1974
80°	5260	2542	1250
85°	3600	1541	673



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.3	3.1
10°-20°	1382.9	10.5
20°-30°	2267.6	17.2
30°-40°	2563.4	19.4
40°-50°	2309.5	17.5
50°-60°	1819.7	13.8
60°-70°	1251.6	9.5
70°-80°	697.9	5.3
80°-90°	283.2	2.1
90°-100°	107.8	0.8
100°-110°	60.1	0.5
110°-120°	32.9	0.2
120°-130°	11.3	0.1
130°-140°	7.8	0.1
140°-150°	4.6	0.0
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4055.7	30.7
0°-40°	6619.1	50.1
0°-60°	10748.4	81.4
0°-90°	12981.2	98.3
90°-120°	200.8	1.5
90°-150°	224.5	1.7
90°-180°	225.0	1.7
0°-180°	13206.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4050	4050	4050	4050	4050	
5°	4057	4074	3955	4131	4158	385
15°	3885	4181	5024	5606	5708	1098
25°	3567	4312	5248	5638	5609	1641
35°	3080	3885	4474	4409	4312	1923
45°	2418	3019	3278	3028	2831	1868
55°	1656	2089	2222	2028	1884	1486
65°	909	1311	1406	1290	1148	911
75°	379	799	753	602	508	410
85°	83	399	268	199	156	93
90°	4	255	147	97	68	5
95°	0	178	110	74	52	0
105°	0	45	81	70	54	0
115°	0	34	14	54	61	0
125°	2	25	13	11	0	2
135°	2	14	13	13	0	1
145°	2	7	9	11	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°	4050.2	4050.2	4050.2	4050.2	4050.2
2.5°	4069.9	4062.7	4059.1	4093.3	4039.4
5°	4057.3	4073.5	3955.0	4131.0	4157.9
7.5°	4035.8	3989.1	4210.0	4598.0	4691.4
10°	3985.5	3935.2	4556.7	4985.9	5088.3
12.5°	3971.1	4037.6	4779.4	5355.9	5499.6
15°	3884.9	4181.3	5023.6	5605.6	5707.9
17.5°	3825.6	4283.6	5219.4	5700.8	5772.6
20°	3753.8	4314.2	5309.2	5754.6	5833.7
22.5°	3658.6	4344.7	5293.0	5756.4	5821.1
25°	3567.0	4312.4	5248.1	5637.9	5609.2
27.5°	3455.7	4240.5	5161.9	5458.3	5417.0
30°	3338.9	4163.3	5000.3	5167.3	5097.3
32.5°	3225.8	4048.4	4741.6	4791.9	4711.1
35°	3080.3	3884.9	4474.0	4409.4	4312.4
37.5°	2933.0	3692.7	4188.5	4017.8	3823.9
40°	2767.8	3475.4	3875.9	3676.6	3452.1
42.5°	2597.1	3243.7	3579.6	3337.1	3121.6
45°	2417.5	3019.2	3277.8	3028.2	2830.6
47.5°	2255.9	2791.1	2994.1	2737.2	2564.8
50°	2063.7	2554.0	2724.7	2476.8	2316.9
52.5°	1869.7	2325.9	2457.0	2239.7	2094.2
55°	1656.0	2088.8	2221.7	2027.8	1884.1
57.5°	1460.2	1878.7	1982.9	1830.2	1684.7
60°	1273.4	1668.6	1778.1	1632.6	1512.3
62.5°	1081.2	1487.2	1591.3	1463.8	1329.1
65°	908.8	1311.1	1406.3	1289.6	1147.7
67.5°	756.1	1162.1	1248.3	1092.0	957.3
70°	612.5	1029.2	1088.4	914.2	792.1
72.5°	484.9	905.2	925.0	743.6	635.8
75°	379.0	799.3	752.6	601.7	508.3
77.5°	282.0	705.9	607.1	477.8	398.7
80°	204.8	612.5	477.8	364.6	307.1
82.5°	141.9	504.7	366.4	274.8	226.3
85°	82.6	398.7	267.6	199.4	156.3
87.5°	30.5	323.3	195.8	134.7	104.2
90°	3.6	255.0	147.3	97.0	68.3
92.5°	1.8	215.5	122.1	80.8	55.7
95°	0.0	177.8	109.6	73.6	52.1
97.5°	0.0	140.1	100.6	71.8	52.1
100°	0.0	91.6	93.4	68.3	50.3
102.5°	0.0	52.1	88.0	68.3	52.1
105°	0.0	44.9	80.8	70.0	53.9
107.5°	0.0	41.3	71.8	73.6	57.5
110°	0.0	39.5	46.7	75.4	61.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	35.9	18.0	77.2	64.7
115°	0.0	34.1	14.4	53.9	61.1
117.5°	0.0	32.3	14.4	37.7	39.5
120°	1.8	28.7	14.4	10.8	10.8
122.5°	1.8	26.9	12.6	10.8	0.0
125°	1.8	25.1	12.6	10.8	0.0
127.5°	1.8	21.6	12.6	12.6	0.0
130°	1.8	19.8	12.6	10.8	0.0
132.5°	1.8	18.0	12.6	12.6	0.0
135°	1.8	14.4	12.6	12.6	0.0
137.5°	1.8	12.6	10.8	12.6	0.0
140°	1.8	10.8	10.8	12.6	0.0
142.5°	1.8	9.0	10.8	12.6	0.0
145°	1.8	7.2	9.0	10.8	0.0
147.5°	1.8	5.4	9.0	10.8	0.0
150°	1.8	5.4	7.2	10.8	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)