

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: P232551

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232551
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-L850-CD1-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: 11040.9 lumens
Efficiency: N/A
Efficacy: 142.6 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

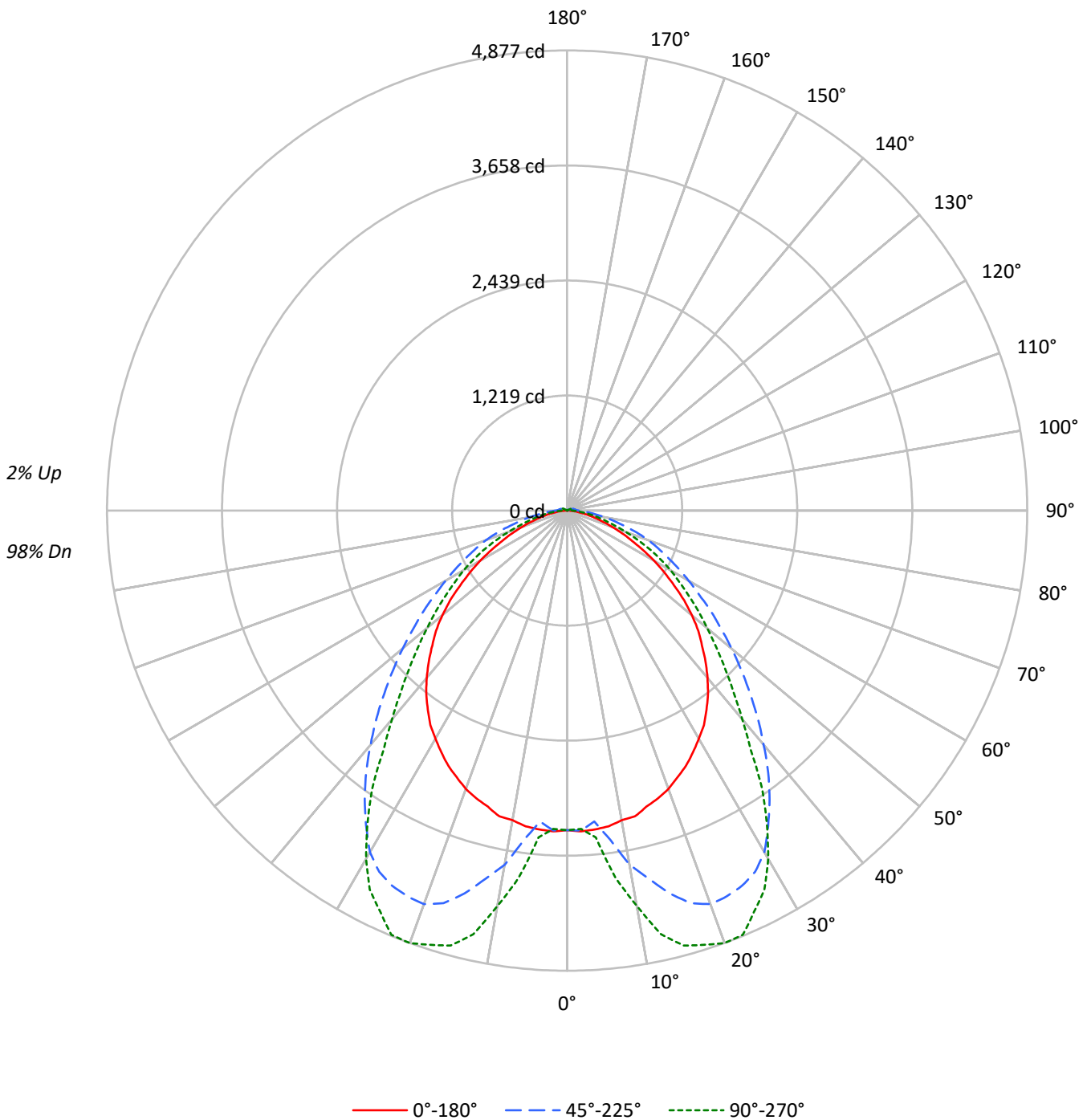
Input Watts (W): 77.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	18224	18224	18224
5°	18268	16626	17041
10°	18094	18104	19282
15°	17922	19058	20257
20°	17739	19412	19608
25°	17413	18655	18036
30°	16990	17422	15825
35°	16499	15401	13037
40°	15775	13284	10246
45°	14843	11270	8313
50°	13845	9471	6785
55°	12348	7869	5544
60°	10780	6469	4505
65°	8974	5301	3489
70°	7325	4291	2478
75°	5799	3134	1651
80°	4397	2125	1045
85°	3012	1288	563



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.8	3.1
10°-20°	1156.1	10.5
20°-30°	1895.9	17.2
30°-40°	2143.1	19.4
40°-50°	1930.9	17.5
50°-60°	1521.4	13.8
60°-70°	1046.4	9.5
70°-80°	583.5	5.3
80°-90°	236.8	2.1
90°-100°	90.1	0.8
100°-110°	50.2	0.5
110°-120°	27.5	0.2
120°-130°	9.4	0.1
130°-140°	6.5	0.1
140°-150°	3.9	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3390.8	30.7
0°-40°	5534.0	50.1
0°-60°	8986.3	81.4
0°-90°	10853.0	98.3
90°-120°	167.9	1.5
90°-150°	187.6	1.7
90°-180°	188.0	1.7
0°-180°	11040.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3386	3386	3386	3386	3386	
5°	3392	3406	3307	3454	3476	322
15°	3248	3496	4200	4687	4772	918
25°	2982	3605	4388	4714	4690	1372
35°	2575	3248	3741	3686	3605	1608
45°	2021	2524	2740	2532	2367	1562
55°	1384	1746	1858	1695	1575	1242
65°	760	1096	1176	1078	960	762
75°	317	668	629	503	425	342
85°	69	333	224	167	131	78
90°	3	213	123	81	57	5
95°	0	149	92	62	44	0
105°	0	38	68	59	45	0
115°	0	28	12	45	51	0
125°	2	21	10	9	0	1
135°	2	12	10	10	0	1
145°	2	6	8	9	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



TEST NUMBER: P232551

CATALOG NUMBER: 8SKB1-LD5-10-N-UNV-L850-CD1-RS-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3386.2	3386.2	3386.2	3386.2	3386.2
2.5°	3402.7	3396.7	3393.7	3422.2	3377.2
5°	3392.2	3405.7	3306.6	3453.7	3476.3
7.5°	3374.2	3335.1	3519.8	3844.2	3922.3
10°	3332.1	3290.1	3809.6	4168.5	4254.1
12.5°	3320.1	3375.7	3995.8	4477.9	4598.0
15°	3248.0	3495.8	4200.1	4686.6	4772.2
17.5°	3198.5	3581.4	4363.7	4766.2	4826.2
20°	3138.4	3606.9	4438.8	4811.2	4877.3
22.5°	3058.8	3632.4	4425.3	4812.7	4866.8
25°	2982.2	3605.4	4387.8	4713.6	4689.6
27.5°	2889.1	3545.3	4315.7	4563.4	4528.9
30°	2791.5	3480.8	4180.5	4320.2	4261.6
32.5°	2696.9	3384.7	3964.3	4006.3	3938.8
35°	2575.3	3248.0	3740.6	3686.5	3605.4
37.5°	2452.2	3087.3	3501.8	3359.1	3197.0
40°	2314.0	2905.7	3240.5	3073.8	2886.1
42.5°	2171.4	2711.9	2992.7	2790.0	2609.8
45°	2021.2	2524.2	2740.5	2531.7	2366.6
47.5°	1886.0	2333.5	2503.2	2288.5	2144.3
50°	1725.4	2135.3	2278.0	2070.7	1937.1
52.5°	1563.2	1944.6	2054.2	1872.5	1750.9
55°	1384.5	1746.4	1857.5	1695.3	1575.2
57.5°	1220.8	1570.7	1657.8	1530.2	1408.5
60°	1064.7	1395.0	1486.6	1365.0	1264.4
62.5°	904.0	1243.3	1330.4	1223.8	1111.2
65°	759.8	1096.2	1175.8	1078.2	959.5
67.5°	632.2	971.6	1043.6	913.0	800.4
70°	512.1	860.4	910.0	764.3	662.2
72.5°	405.4	756.8	773.3	621.7	531.6
75°	316.8	668.2	629.2	503.0	425.0
77.5°	235.8	590.1	507.6	399.4	333.4
80°	171.2	512.1	399.4	304.8	256.8
82.5°	118.6	422.0	306.3	229.7	189.2
85°	69.1	333.4	223.7	166.7	130.6
87.5°	25.5	270.3	163.7	112.6	87.1
90°	3.0	213.2	123.1	81.1	57.1
92.5°	1.5	180.2	102.1	67.6	46.6
95°	0.0	148.7	91.6	61.6	43.5
97.5°	0.0	117.1	84.1	60.1	43.5
100°	0.0	76.6	78.1	57.1	42.0
102.5°	0.0	43.5	73.6	57.1	43.5
105°	0.0	37.5	67.6	58.6	45.0
107.5°	0.0	34.5	60.1	61.6	48.1
110°	0.0	33.0	39.0	63.1	51.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	30.0	15.0	64.6	54.1
115°	0.0	28.5	12.0	45.0	51.1
117.5°	0.0	27.0	12.0	31.5	33.0
120°	1.5	24.0	12.0	9.0	9.0
122.5°	1.5	22.5	10.5	9.0	0.0
125°	1.5	21.0	10.5	9.0	0.0
127.5°	1.5	18.0	10.5	10.5	0.0
130°	1.5	16.5	10.5	9.0	0.0
132.5°	1.5	15.0	10.5	10.5	0.0
135°	1.5	12.0	10.5	10.5	0.0
137.5°	1.5	10.5	9.0	10.5	0.0
140°	1.5	9.0	9.0	10.5	0.0
142.5°	1.5	7.5	9.0	10.5	0.0
145°	1.5	6.0	7.5	9.0	0.0
147.5°	1.5	4.5	7.5	9.0	0.0
150°	1.5	4.5	6.0	9.0	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)