

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: P232529

Luminaire Tested: **8SKB1-LD5-8-W-UNV-L840-CD1-RS-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232529
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-LD5-8-W-UNV-L840-CD1-RS-U
Description: METALUX SKYBAR 8' WAVESTREAM STRIP
WITH WIDE LENS AND REFLECTOR
Light Source: (392) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7800.0 lumens
Efficiency: N/A
Efficacy: 131.1 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

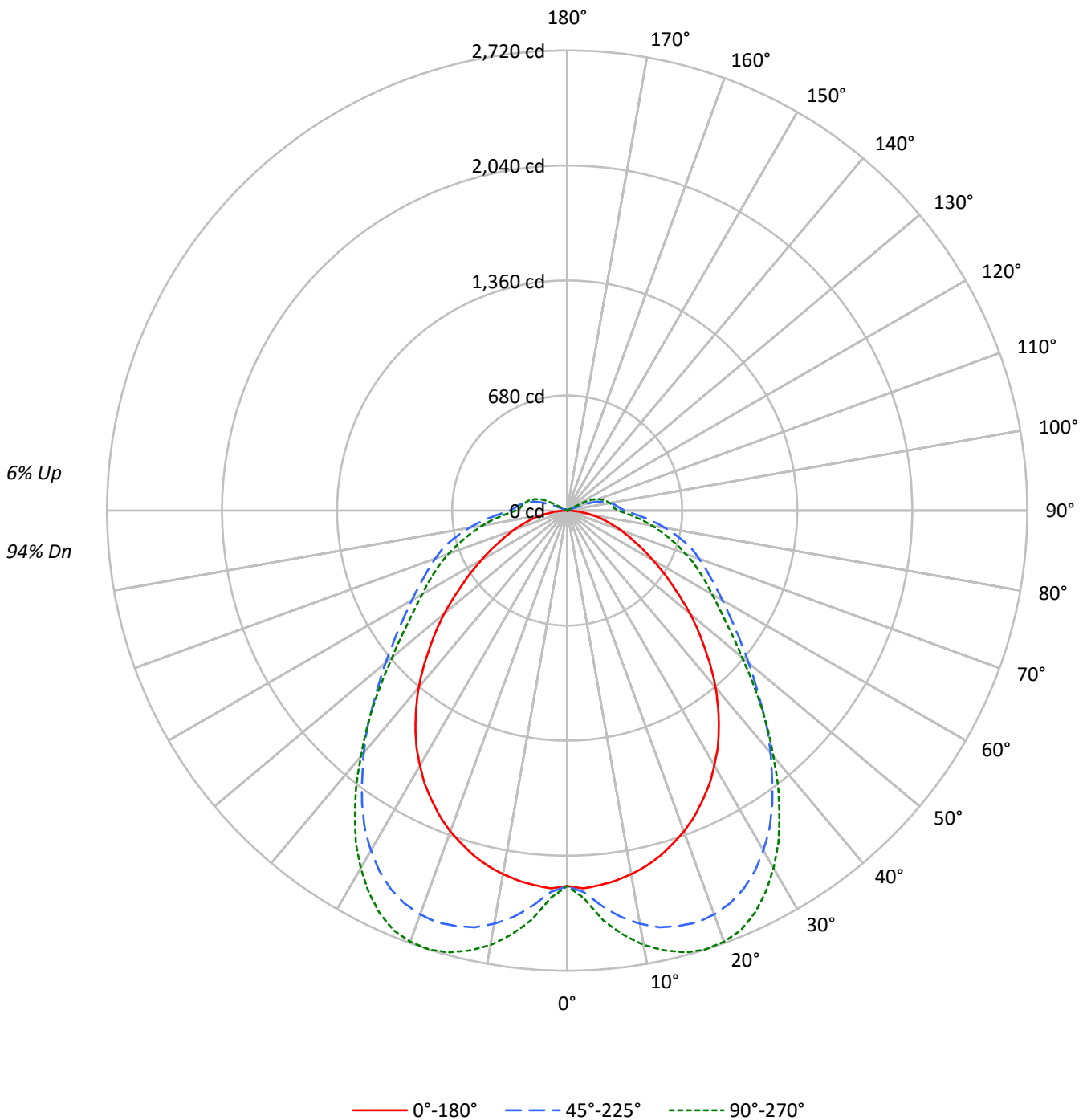
Input Watts (W): 59.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	11942	11942	11942
5°	11968	11791	11909
10°	11848	11781	11819
15°	11669	11532	11476
20°	11410	11110	10902
25°	11045	10491	10091
30°	10590	9667	9060
35°	10013	8702	7907
40°	9306	7664	6731
45°	8444	6670	5673
50°	7612	5825	4725
55°	6686	5126	4023
60°	5915	4611	3524
65°	5247	4214	3143
70°	4782	3911	2788
75°	4298	3589	2413
80°	3773	3121	2062
85°	2772	2591	1704



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.7	2.9
10°-20°	705.1	9.0
20°-30°	1098.1	14.1
30°-40°	1262.6	16.2
40°-50°	1182.9	15.2
50°-60°	995.0	12.8
60°-70°	815.0	10.4
70°-80°	634.5	8.1
80°-90°	408.9	5.2
90°-100°	251.7	3.2
100°-110°	156.5	2.0
110°-120°	51.5	0.7
120°-130°	7.0	0.1
130°-140°	3.2	0.0
140°-150°	1.1	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2030.0	26.0
0°-40°	3292.6	42.2
0°-60°	5470.4	70.1
0°-90°	7328.8	94.0
90°-120°	459.7	5.9
90°-150°	471.1	6.0
90°-180°	471.0	6.0
0°-180°	7800.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2219	2219	2219	2219	2219	
5°	2222	2269	2345	2421	2429	211
15°	2115	2352	2542	2684	2704	595
25°	1892	2236	2468	2610	2624	870
35°	1563	1910	2114	2200	2186	975
45°	1150	1470	1622	1650	1615	889
55°	750	1074	1210	1189	1143	676
65°	444	792	935	895	864	446
75°	235	604	721	651	621	251
85°	64	398	450	411	396	69
90°	4	276	339	312	303	5
95°	0	209	296	282	273	0
105°	0	43	204	236	232	0
115°	0	29	20	95	145	0
125°	0	17	14	0	0	0
135°	0	8	8	0	0	0
145°	1	2	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°	2218.9	2218.9	2218.9	2218.9	2218.9
2.5°	2235.1	2239.7	2257.0	2302.2	2292.9
5°	2222.3	2268.6	2345.0	2421.3	2429.4
7.5°	2206.1	2308.0	2422.5	2519.7	2527.8
10°	2181.9	2334.6	2479.2	2597.2	2607.6
12.5°	2152.9	2351.9	2523.1	2652.7	2663.1
15°	2114.8	2351.9	2541.6	2683.9	2703.6
17.5°	2067.3	2342.7	2552.1	2701.3	2719.8
20°	2018.7	2320.7	2540.5	2694.3	2711.7
22.5°	1959.7	2286.0	2512.7	2663.1	2683.9
25°	1891.5	2236.2	2467.6	2609.9	2623.8
27.5°	1822.1	2173.8	2401.7	2531.2	2541.6
30°	1739.9	2096.2	2319.5	2435.2	2439.8
32.5°	1657.8	2014.1	2227.0	2327.6	2324.1
35°	1562.9	1910.0	2113.6	2200.4	2186.5
37.5°	1464.6	1809.3	1989.8	2060.4	2046.5
40°	1365.1	1698.3	1869.5	1918.1	1896.1
42.5°	1257.5	1582.6	1749.2	1780.4	1753.8
45°	1149.9	1470.4	1621.9	1649.7	1615.0
47.5°	1050.4	1359.3	1506.2	1510.9	1477.3
50°	948.6	1258.7	1401.0	1396.3	1348.9
52.5°	844.5	1161.5	1301.5	1289.9	1241.3
55°	749.7	1073.6	1210.1	1189.3	1143.0
57.5°	666.4	992.6	1131.4	1099.0	1060.8
60°	584.2	918.6	1059.7	1023.8	989.1
62.5°	513.6	849.1	993.7	956.7	926.7
65°	444.2	792.5	934.7	895.4	864.2
67.5°	386.4	735.8	881.5	837.6	807.5
70°	334.3	688.3	829.5	778.6	745.0
72.5°	283.4	646.7	779.7	711.5	682.6
75°	234.8	603.9	720.7	651.3	621.2
77.5°	193.2	564.6	653.6	587.7	563.4
80°	146.9	524.1	586.5	527.5	506.7
82.5°	104.1	466.2	520.6	467.4	452.3
85°	63.6	398.0	450.0	410.7	395.6
87.5°	27.8	328.6	387.6	355.2	344.7
90°	3.5	276.5	339.0	312.4	303.1
92.5°	1.2	242.9	313.5	291.5	281.1
95°	0.0	209.4	296.2	282.3	273.0
97.5°	0.0	170.1	280.0	274.2	264.9
100°	0.0	109.9	259.1	262.6	254.5
102.5°	0.0	46.3	234.8	249.9	242.9
105°	0.0	42.8	203.6	236.0	232.5
107.5°	0.0	39.3	160.8	217.5	215.2
110°	0.0	35.9	83.3	195.5	196.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	32.4	20.8	166.6	173.5
115°	0.0	28.9	19.7	94.9	144.6
117.5°	0.0	26.6	17.4	1.2	49.7
120°	0.0	23.1	16.2	1.2	0.0
122.5°	0.0	19.7	15.0	0.0	0.0
125°	0.0	17.4	13.9	0.0	0.0
127.5°	0.0	15.0	11.6	0.0	0.0
130°	0.0	12.7	10.4	0.0	0.0
132.5°	0.0	10.4	9.3	0.0	0.0
135°	0.0	8.1	8.1	0.0	0.0
137.5°	0.0	6.9	6.9	0.0	0.0
140°	0.0	4.6	5.8	0.0	0.0
142.5°	1.2	3.5	4.6	0.0	0.0
145°	1.2	2.3	3.5	0.0	0.0
147.5°	1.2	2.3	3.5	0.0	0.0
150°	1.2	1.2	2.3	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)