

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: P232527

Luminaire Tested: **8SKB1-LD5-6-W-UNV-L850-CD1-RS-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232527
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-LD5-6-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: 6044.0 lumens
Efficiency: N/A
Efficacy: 143.9 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

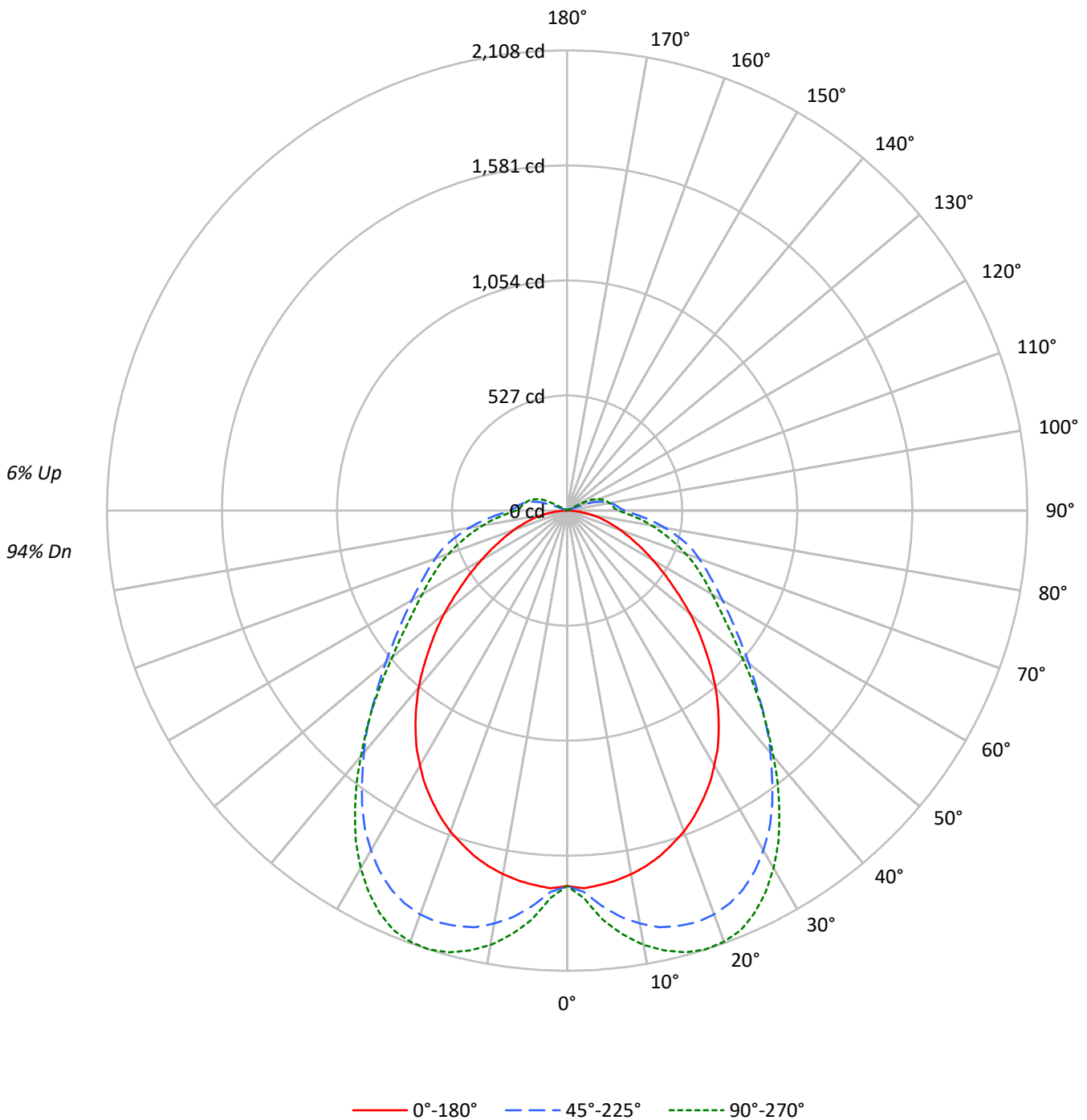
Input Watts (W): 42
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	9253	9253	9253
5°	9274	9137	9228
10°	9181	9129	9158
15°	9042	8936	8892
20°	8842	8609	8447
25°	8558	8130	7819
30°	8206	7490	7020
35°	7759	6743	6126
40°	7211	5938	5216
45°	6543	5169	4396
50°	5899	4513	3661
55°	5181	3972	3117
60°	4583	3573	2731
65°	4065	3266	2435
70°	3706	3030	2160
75°	3331	2782	1870
80°	2923	2418	1598
85°	2149	2008	1321



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.7	2.9
10°-20°	546.4	9.0
20°-30°	850.9	14.1
30°-40°	978.4	16.2
40°-50°	916.6	15.2
50°-60°	771.0	12.8
60°-70°	631.5	10.4
70°-80°	491.7	8.1
80°-90°	316.9	5.2
90°-100°	195.1	3.2
100°-110°	121.3	2.0
110°-120°	39.9	0.7
120°-130°	5.4	0.1
130°-140°	2.5	0.0
140°-150°	0.9	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1573.0	26.0
0°-40°	2551.3	42.2
0°-60°	4238.9	70.1
0°-90°	5678.9	94.0
90°-120°	356.2	5.9
90°-150°	365.1	6.0
90°-180°	365.0	6.0
0°-180°	6044.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1719	1719	1719	1719	1719	
5°	1722	1758	1817	1876	1882	163
15°	1639	1822	1969	2080	2095	461
25°	1466	1733	1912	2022	2033	674
35°	1211	1480	1638	1705	1694	756
45°	891	1139	1257	1278	1251	689
55°	581	832	938	922	886	524
65°	344	614	724	694	670	346
75°	182	468	558	505	481	195
85°	49	308	349	318	307	54
90°	3	214	263	242	235	4
95°	0	162	230	219	212	0
105°	0	33	158	183	180	0
115°	0	22	15	74	112	0
125°	0	13	11	0	0	0
135°	0	6	6	0	0	0
145°	1	2	3	0	0	0
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°	1719.3	1719.3	1719.3	1719.3	1719.3
2.5°	1731.9	1735.5	1748.9	1783.9	1776.7
5°	1722.0	1757.9	1817.1	1876.2	1882.5
7.5°	1709.5	1788.4	1877.1	1952.4	1958.7
10°	1690.7	1809.0	1921.0	2012.5	2020.5
12.5°	1668.2	1822.4	1955.1	2055.5	2063.6
15°	1638.7	1822.4	1969.4	2079.7	2094.9
17.5°	1601.9	1815.3	1977.5	2093.2	2107.5
20°	1564.3	1798.2	1968.5	2087.8	2101.2
22.5°	1518.5	1771.3	1947.0	2063.6	2079.7
25°	1465.7	1732.8	1912.1	2022.3	2033.1
27.5°	1411.9	1684.4	1861.0	1961.4	1969.4
30°	1348.2	1624.3	1797.3	1887.0	1890.6
32.5°	1284.6	1560.7	1725.6	1803.6	1800.9
35°	1211.1	1480.0	1637.8	1705.0	1694.2
37.5°	1134.9	1402.0	1541.9	1596.5	1585.8
40°	1057.8	1316.0	1448.6	1486.3	1469.2
42.5°	974.4	1226.3	1355.4	1379.6	1359.0
45°	891.0	1139.4	1256.8	1278.3	1251.4
47.5°	814.0	1053.3	1167.1	1170.7	1144.7
50°	735.1	975.3	1085.6	1082.0	1045.2
52.5°	654.4	900.0	1008.5	999.5	961.9
55°	580.9	831.9	937.7	921.5	885.7
57.5°	516.3	769.1	876.7	851.6	822.0
60°	452.7	711.8	821.1	793.3	766.4
62.5°	398.0	658.0	770.0	741.3	718.0
65°	344.2	614.1	724.3	693.8	669.6
67.5°	299.4	570.1	683.1	649.0	625.7
70°	259.1	533.4	642.7	603.3	577.3
72.5°	219.6	501.1	604.2	551.3	528.9
75°	182.0	467.9	558.5	504.7	481.4
77.5°	149.7	437.5	506.5	455.4	436.6
80°	113.8	406.1	454.5	408.8	392.6
82.5°	80.7	361.3	403.4	362.2	350.5
85°	49.3	308.4	348.7	318.2	306.6
87.5°	21.5	254.6	300.3	275.2	267.1
90°	2.7	214.2	262.7	242.0	234.9
92.5°	0.9	188.2	242.9	225.9	217.8
95°	0.0	162.3	229.5	218.7	211.6
97.5°	0.0	131.8	216.9	212.5	205.3
100°	0.0	85.2	200.8	203.5	197.2
102.5°	0.0	35.9	182.0	193.6	188.2
105°	0.0	33.2	157.8	182.9	180.2
107.5°	0.0	30.5	124.6	168.5	166.7
110°	0.0	27.8	64.5	151.5	152.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	25.1	16.1	129.1	134.5
115°	0.0	22.4	15.2	73.5	112.1
117.5°	0.0	20.6	13.4	0.9	38.5
120°	0.0	17.9	12.5	0.9	0.0
122.5°	0.0	15.2	11.7	0.0	0.0
125°	0.0	13.4	10.8	0.0	0.0
127.5°	0.0	11.7	9.0	0.0	0.0
130°	0.0	9.9	8.1	0.0	0.0
132.5°	0.0	8.1	7.2	0.0	0.0
135°	0.0	6.3	6.3	0.0	0.0
137.5°	0.0	5.4	5.4	0.0	0.0
140°	0.0	3.6	4.5	0.0	0.0
142.5°	0.9	2.7	3.6	0.0	0.0
145°	0.9	1.8	2.7	0.0	0.0
147.5°	0.9	1.8	2.7	0.0	0.0
150°	0.9	0.9	1.8	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)