

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: P#

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P#  
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-LD5-6-N-RS-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**

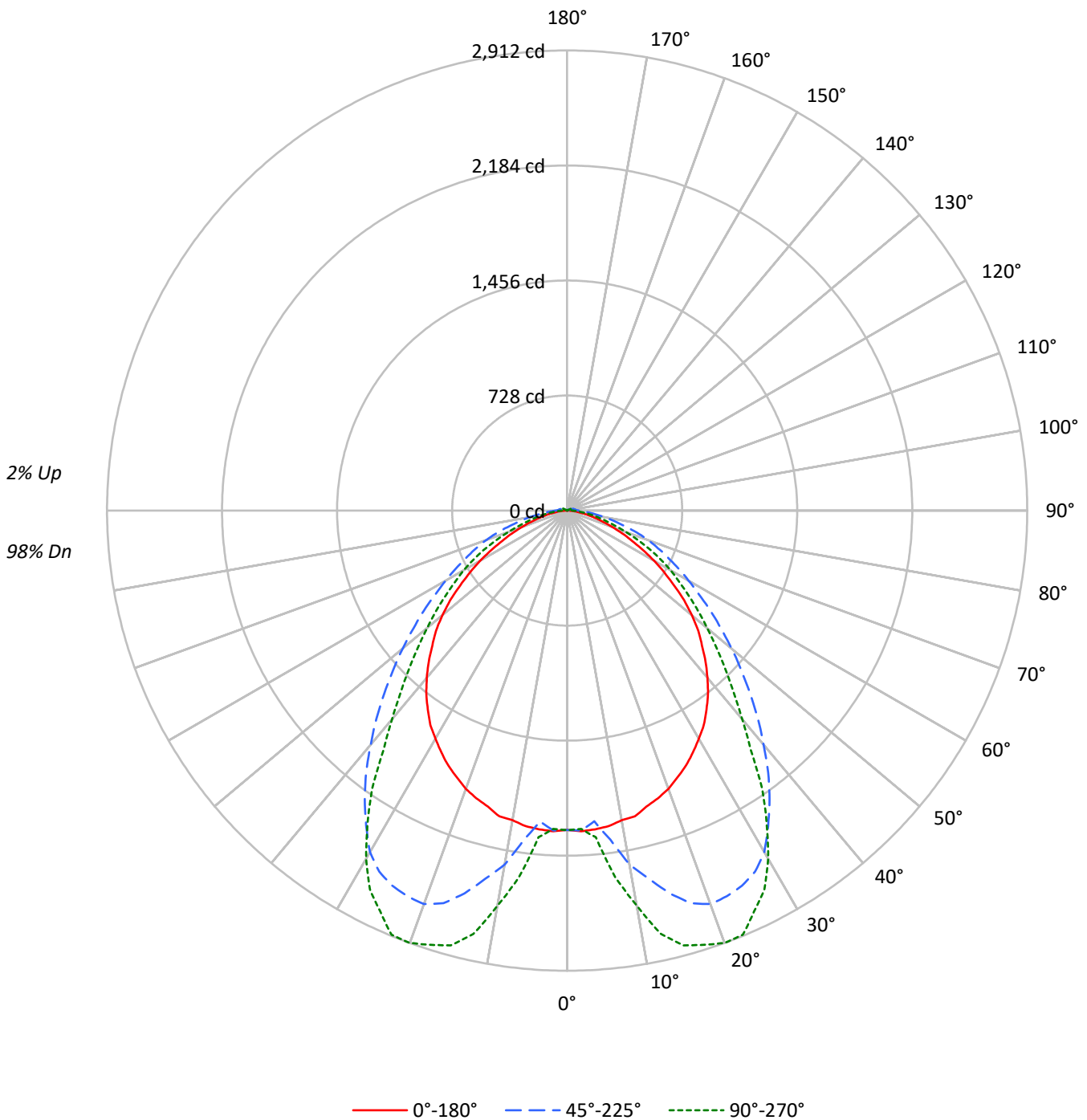
Lumens per Lamp: N/A  
Luminaire Lumens: 6591.0 lumens  
Efficiency: N/A  
Efficacy: 156.9 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.5 / 1.49  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.29')  
CIE Type: Direct

Input Watts (W): 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	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°	10879	10879	10879
5°	10905	9925	10173
10°	10801	10807	11510
15°	10699	11377	12093
20°	10590	11588	11705
25°	10395	11136	10767
30°	10142	10400	9447
35°	9849	9194	7783
40°	9417	7930	6117
45°	8861	6728	4963
50°	8265	5653	4050
55°	7371	4697	3309
60°	6435	3862	2690
65°	5358	3165	2083
70°	4372	2561	1479
75°	3461	1871	985
80°	2625	1268	624
85°	1796	769	336



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	202.3	3.1
10°-20°	690.2	10.5
20°-30°	1131.8	17.2
30°-40°	1279.4	19.4
40°-50°	1152.7	17.5
50°-60°	908.2	13.8
60°-70°	624.7	9.5
70°-80°	348.3	5.3
80°-90°	141.4	2.1
90°-100°	53.8	0.8
100°-110°	30.0	0.5
110°-120°	16.4	0.2
120°-130°	5.6	0.1
130°-140°	3.9	0.1
140°-150°	2.3	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2024.2	30.7
0°-40°	3303.5	50.1
0°-60°	5364.4	81.4
0°-90°	6478.8	98.3
90°-120°	100.2	1.5
90°-150°	112.1	1.7
90°-180°	112.0	1.7
0°-180°	6591.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2021	2021	2021	2021	2021	
5°	2025	2033	1974	2062	2075	192
15°	1939	2087	2507	2798	2849	548
25°	1780	2152	2619	2814	2800	819
35°	1537	1939	2233	2201	2152	960
45°	1207	1507	1636	1511	1413	932
55°	826	1042	1109	1012	940	742
65°	454	654	702	644	573	455
75°	189	399	376	300	254	204
85°	41	199	134	100	78	46
90°	2	127	74	48	34	3
95°	0	89	55	37	26	0
105°	0	22	40	35	27	0
115°	0	17	7	27	30	0
125°	1	12	6	5	0	1
135°	1	7	6	6	0	1
145°	1	4	4	5	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°	2021.4	2021.4	2021.4	2021.4	2021.4
2.5°	2031.3	2027.7	2025.9	2042.9	2016.0
5°	2025.0	2033.1	1973.9	2061.7	2075.2
7.5°	2014.2	1990.9	2101.2	2294.8	2341.4
10°	1989.1	1964.0	2274.2	2488.4	2539.5
12.5°	1982.0	2015.1	2385.3	2673.1	2744.8
15°	1938.9	2086.8	2507.3	2797.7	2848.8
17.5°	1909.3	2137.9	2605.0	2845.2	2881.1
20°	1873.5	2153.2	2649.8	2872.1	2911.5
22.5°	1826.0	2168.4	2641.7	2873.0	2905.3
25°	1780.3	2152.3	2619.3	2813.8	2799.5
27.5°	1724.7	2116.4	2576.3	2724.2	2703.6
30°	1666.4	2077.9	2495.6	2579.0	2544.0
32.5°	1609.9	2020.5	2366.5	2391.6	2351.3
35°	1537.3	1938.9	2233.0	2200.7	2152.3
37.5°	1463.8	1843.0	2090.4	2005.3	1908.5
40°	1381.4	1734.5	1934.4	1834.9	1722.9
42.5°	1296.2	1618.9	1786.5	1665.5	1558.0
45°	1206.6	1506.9	1635.9	1511.3	1412.7
47.5°	1125.9	1393.0	1494.3	1366.1	1280.1
50°	1030.0	1274.7	1359.8	1236.1	1156.4
52.5°	933.2	1160.8	1226.3	1117.8	1045.2
55°	826.5	1042.5	1108.9	1012.0	940.3
57.5°	728.8	937.6	989.6	913.4	840.8
60°	635.6	832.8	887.4	814.8	754.8
62.5°	539.6	742.2	794.2	730.6	663.3
65°	453.6	654.4	701.9	643.6	572.8
67.5°	377.4	580.0	623.0	545.0	477.8
70°	305.7	513.6	543.2	456.3	395.3
72.5°	242.0	451.8	461.6	371.1	317.3
75°	189.1	398.9	375.6	300.3	253.7
77.5°	140.7	352.3	303.0	238.4	199.0
80°	102.2	305.7	238.4	182.0	153.3
82.5°	70.8	251.9	182.9	137.2	112.9
85°	41.2	199.0	133.6	99.5	78.0
87.5°	15.2	161.4	97.7	67.2	52.0
90°	1.8	127.3	73.5	48.4	34.1
92.5°	0.9	107.6	61.0	40.3	27.8
95°	0.0	88.7	54.7	36.8	26.0
97.5°	0.0	69.9	50.2	35.9	26.0
100°	0.0	45.7	46.6	34.1	25.1
102.5°	0.0	26.0	43.9	34.1	26.0
105°	0.0	22.4	40.3	35.0	26.9
107.5°	0.0	20.6	35.9	36.8	28.7
110°	0.0	19.7	23.3	37.6	30.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	17.9	9.0	38.5	32.3
115°	0.0	17.0	7.2	26.9	30.5
117.5°	0.0	16.1	7.2	18.8	19.7
120°	0.9	14.3	7.2	5.4	5.4
122.5°	0.9	13.4	6.3	5.4	0.0
125°	0.9	12.5	6.3	5.4	0.0
127.5°	0.9	10.8	6.3	6.3	0.0
130°	0.9	9.9	6.3	5.4	0.0
132.5°	0.9	9.0	6.3	6.3	0.0
135°	0.9	7.2	6.3	6.3	0.0
137.5°	0.9	6.3	5.4	6.3	0.0
140°	0.9	5.4	5.4	6.3	0.0
142.5°	0.9	4.5	5.4	6.3	0.0
145°	0.9	3.6	4.5	5.4	0.0
147.5°	0.9	2.7	4.5	5.4	0.0
150°	0.9	2.7	3.6	5.4	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)