

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: P232608

Luminaire Tested: **4SKB1-LD5-6-W-UNV-L850-CD1-RS-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P232608  
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: 4SKB1-LD5-6-W-UNV-L850-CD1-RS-U  
Description: METALUX SKYBAR 4' WAVESTREAM STRIP  
WITH WIDE LENS AND REFLECTOR  
Light Source: (196) 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6055.0 lumens  
Efficiency: N/A  
Efficacy: 128.4 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.47 / 1.44  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.29')  
CIE Type: Direct

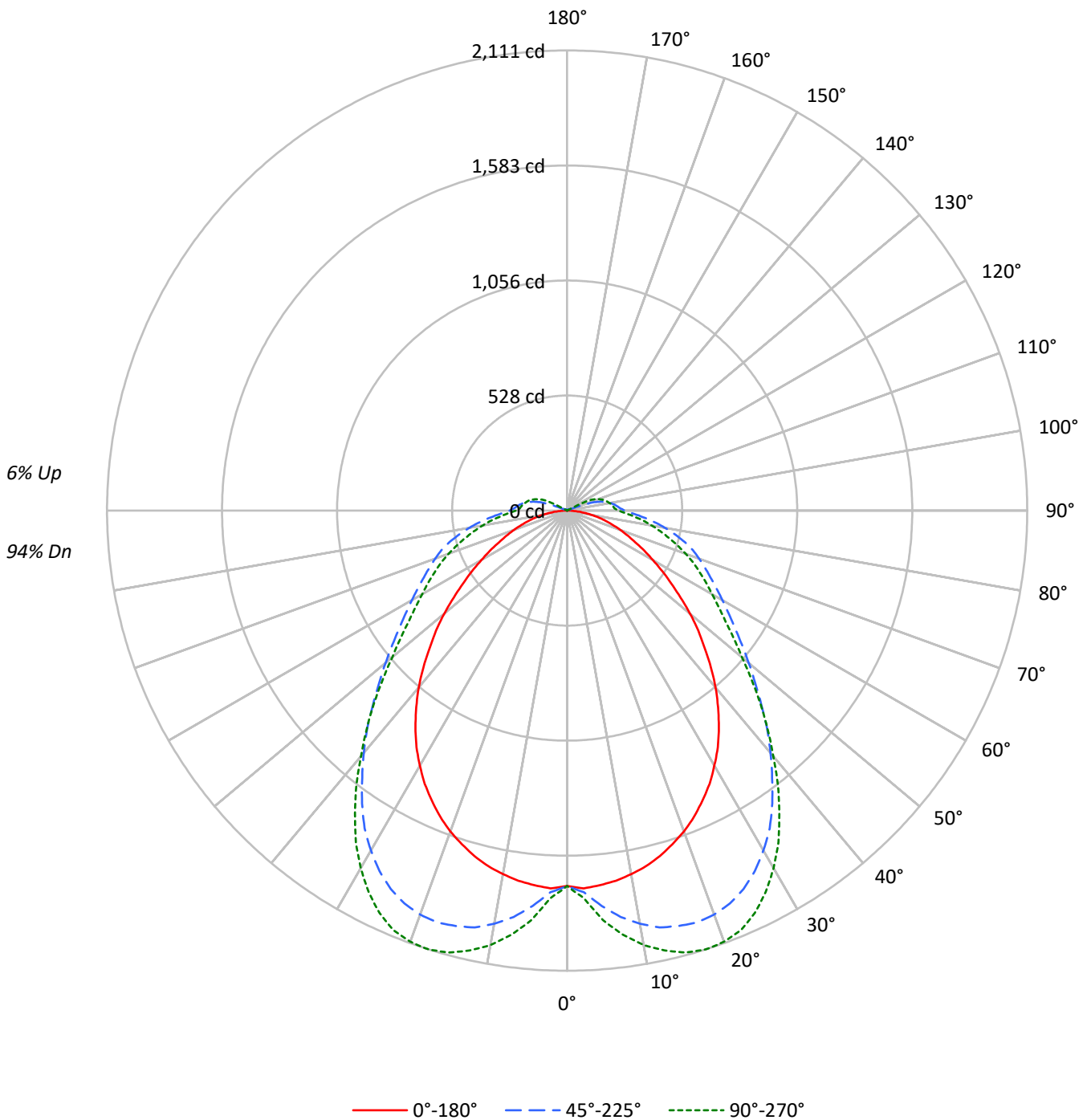
Input Watts (W): 47.16  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	18541	18541	18541
5°	18523	18269	18490
10°	18277	18219	18350
15°	17943	17805	17818
20°	17487	17126	16925
25°	16865	16150	15667
30°	16110	14860	14066
35°	15169	13360	12275
40°	14032	11750	10451
45°	12666	10214	8808
50°	11346	8907	7335
55°	9890	7829	6245
60°	8668	7032	5472
65°	7597	6417	4879
70°	6804	5946	4328
75°	5960	5448	3746
80°	5004	4726	3201
85°	3328	3915	2646



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	176.0	2.9
10°-20°	547.3	9.0
20°-30°	852.5	14.1
30°-40°	980.1	16.2
40°-50°	918.2	15.2
50°-60°	772.4	12.8
60°-70°	632.7	10.4
70°-80°	492.6	8.1
80°-90°	317.4	5.2
90°-100°	195.4	3.2
100°-110°	121.5	2.0
110°-120°	40.0	0.7
120°-130°	5.5	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°	1575.8	26.0
0°-40°	2555.9	42.2
0°-60°	4246.6	70.1
0°-90°	5689.2	94.0
90°-120°	356.8	5.9
90°-150°	365.7	6.0
90°-180°	366.0	6.0
0°-180°	6055.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1722	1722	1722	1722	1722	
5°	1725	1761	1820	1880	1886	164
15°	1642	1826	1973	2084	2099	462
25°	1468	1736	1916	2026	2037	676
35°	1213	1483	1641	1708	1697	757
45°	893	1141	1259	1281	1254	690
55°	582	833	939	923	887	525
65°	345	615	726	695	671	346
75°	182	469	560	506	482	195
85°	49	309	349	319	307	54
90°	3	215	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	14	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°	1722.5	1722.5	1722.5	1722.5	1722.5
2.5°	1735.0	1738.6	1752.1	1787.1	1779.9
5°	1725.2	1761.1	1820.4	1879.6	1885.9
7.5°	1712.6	1791.6	1880.5	1956.0	1962.3
10°	1693.7	1812.3	1924.5	2016.1	2024.2
12.5°	1671.3	1825.7	1958.7	2059.2	2067.3
15°	1641.6	1825.7	1973.0	2083.5	2098.8
17.5°	1604.8	1818.6	1981.1	2097.0	2111.3
20°	1567.1	1801.5	1972.1	2091.6	2105.0
22.5°	1521.3	1774.6	1950.6	2067.3	2083.5
25°	1468.3	1735.9	1915.6	2026.0	2036.8
27.5°	1414.4	1687.4	1864.4	1964.9	1973.0
30°	1350.7	1627.3	1800.6	1890.4	1894.0
32.5°	1286.9	1563.5	1728.8	1806.9	1804.2
35°	1213.3	1482.7	1640.7	1708.1	1697.3
37.5°	1136.9	1404.6	1544.7	1599.4	1588.7
40°	1059.7	1318.3	1451.3	1489.0	1471.9
42.5°	976.2	1228.5	1357.9	1382.1	1361.5
45°	892.7	1141.4	1259.1	1280.6	1253.7
47.5°	815.4	1055.2	1169.3	1172.9	1146.8
50°	736.4	977.1	1087.5	1084.0	1047.1
52.5°	655.6	901.6	1010.3	1001.3	963.6
55°	581.9	833.4	939.4	923.2	887.3
57.5°	517.3	770.5	878.3	853.2	823.5
60°	453.5	713.1	822.6	794.8	767.8
62.5°	398.7	659.2	771.4	742.7	719.3
65°	344.9	615.2	725.6	695.1	670.8
67.5°	300.0	571.2	684.3	650.2	626.8
70°	259.5	534.3	643.9	604.4	578.3
72.5°	220.0	502.0	605.3	552.3	529.9
75°	182.3	468.8	559.5	505.6	482.3
77.5°	150.0	438.3	507.4	456.2	437.4
80°	114.1	406.8	455.3	409.5	393.3
82.5°	80.8	361.9	404.1	362.8	351.1
85°	49.4	308.9	349.3	318.8	307.1
87.5°	21.6	255.0	300.8	275.7	267.6
90°	2.7	214.6	263.1	242.5	235.3
92.5°	0.9	188.6	243.4	226.3	218.2
95°	0.0	162.5	229.9	219.1	211.9
97.5°	0.0	132.0	217.3	212.8	205.7
100°	0.0	85.3	201.2	203.9	197.6
102.5°	0.0	35.9	182.3	194.0	188.6
105°	0.0	33.2	158.1	183.2	180.5
107.5°	0.0	30.5	124.8	168.8	167.0
110°	0.0	27.8	64.7	151.8	152.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	25.1	16.2	129.3	134.7
115°	0.0	22.5	15.3	73.6	112.3
117.5°	0.0	20.7	13.5	0.9	38.6
120°	0.0	18.0	12.6	0.9	0.0
122.5°	0.0	15.3	11.7	0.0	0.0
125°	0.0	13.5	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)