

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: P232623

Luminaire Tested: **4SKB1-LD5-5-N-UNV-L850-CD1-RS-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P232623  
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: 4SKB1-LD5-5-N-UNV-L850-CD1-RS-U  
Description: METALUX SKYBAR 4' WAVESTREAM STRIP  
WITH NARROW LENS AND REFLECTOR  
Light Source: (196) 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5521.0 lumens  
Efficiency: N/A  
Efficacy: 145.3 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.5 / 1.49  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.29')  
CIE Type: Direct

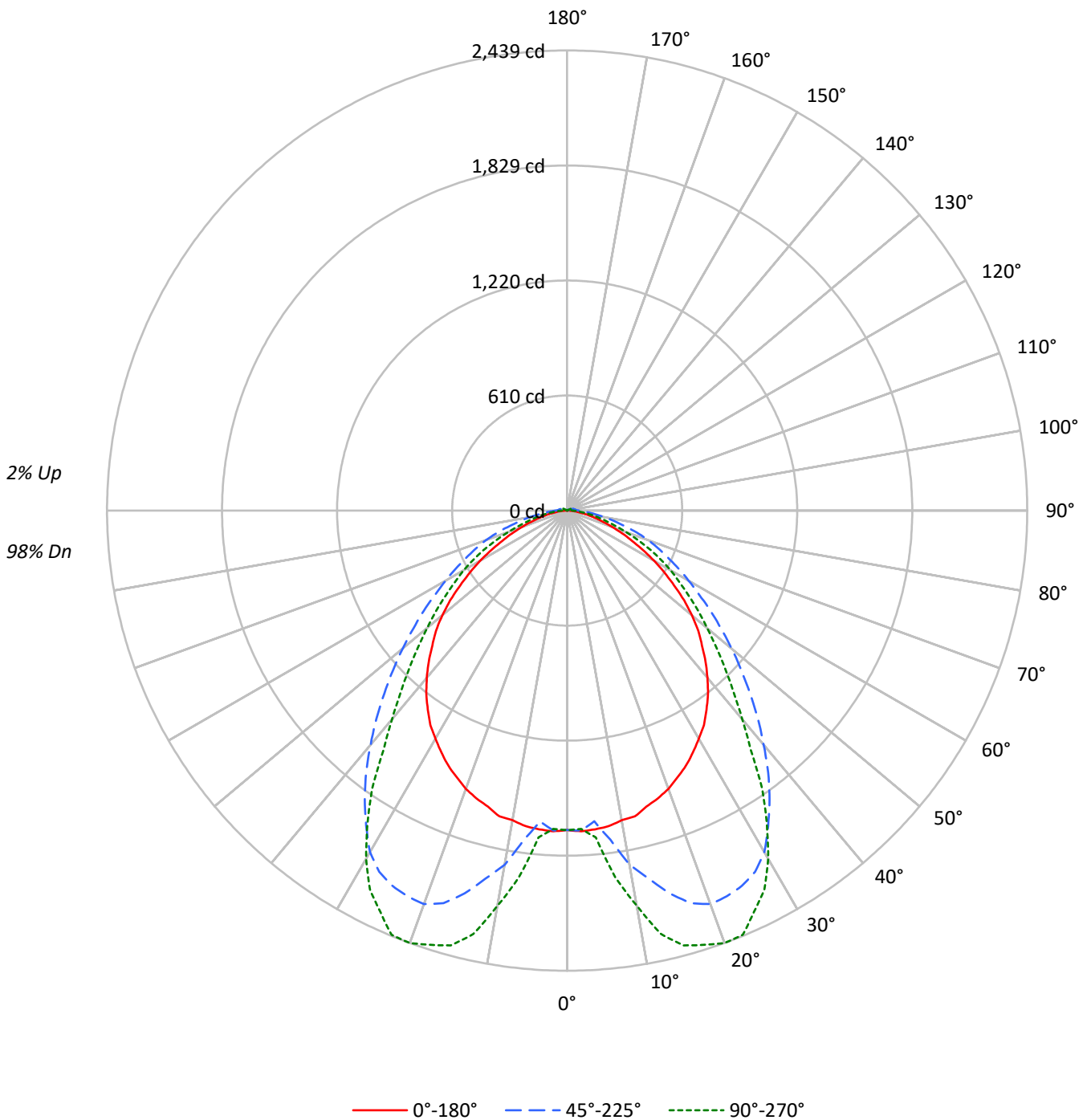
Input Watts (W): 38  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	18225	18225	18225
5°	18211	16593	17043
10°	17980	18034	19283
15°	17753	18952	20259
20°	17511	19275	19610
25°	17129	18498	18038
30°	16649	17252	15826
35°	16100	15230	13039
40°	15321	13119	10247
45°	14340	11117	8314
50°	13293	9329	6785
55°	11767	7740	5544
60°	10176	6355	4505
65°	8367	5200	3490
70°	6715	4201	2478
75°	5178	3063	1651
80°	3754	2073	1045
85°	2324	1254	563



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	169.4	3.1
10°-20°	578.1	10.5
20°-30°	948.0	17.2
30°-40°	1071.7	19.4
40°-50°	965.6	17.5
50°-60°	760.8	13.8
60°-70°	523.3	9.5
70°-80°	291.8	5.3
80°-90°	118.4	2.1
90°-100°	45.1	0.8
100°-110°	25.1	0.5
110°-120°	13.7	0.2
120°-130°	4.7	0.1
130°-140°	3.3	0.1
140°-150°	1.9	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1695.6	30.7
0°-40°	2767.2	50.1
0°-60°	4493.6	81.4
0°-90°	5427.0	98.3
90°-120°	83.9	1.5
90°-150°	93.9	1.7
90°-180°	94.0	1.7
0°-180°	5521.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1693	1693	1693	1693	1693	
5°	1696	1703	1653	1727	1738	161
15°	1624	1748	2100	2344	2386	459
25°	1491	1803	2194	2357	2345	686
35°	1288	1624	1870	1843	1803	804
45°	1011	1262	1370	1266	1183	781
55°	692	873	929	848	788	621
65°	380	548	588	539	480	381
75°	158	334	315	252	212	171
85°	34	167	112	83	65	39
90°	2	107	62	40	28	2
95°	0	74	46	31	22	0
105°	0	19	34	29	22	0
115°	0	14	6	22	26	0
125°	1	10	5	4	0	1
135°	1	6	5	5	0	1
145°	1	3	4	4	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°	1693.2	1693.2	1693.2	1693.2	1693.2
2.5°	1701.5	1698.5	1697.0	1711.3	1688.7
5°	1696.2	1703.0	1653.4	1727.0	1738.3
7.5°	1687.2	1667.7	1760.1	1922.3	1961.3
10°	1666.2	1645.2	1905.0	2084.4	2127.2
12.5°	1660.2	1688.0	1998.1	2239.1	2299.2
15°	1624.2	1748.1	2100.2	2343.5	2386.3
17.5°	1599.4	1790.9	2182.1	2383.3	2413.3
20°	1569.3	1803.6	2219.6	2405.8	2438.9
22.5°	1529.5	1816.4	2212.8	2406.6	2433.6
25°	1491.3	1802.9	2194.1	2357.0	2345.0
27.5°	1444.7	1772.8	2158.0	2281.9	2264.7
30°	1395.9	1740.5	2090.5	2160.3	2131.0
32.5°	1348.6	1692.5	1982.3	2003.4	1969.6
35°	1287.8	1624.2	1870.4	1843.4	1802.9
37.5°	1226.2	1543.8	1751.1	1679.7	1598.6
40°	1157.1	1453.0	1620.4	1537.1	1443.2
42.5°	1085.8	1356.1	1496.5	1395.1	1305.0
45°	1010.7	1262.2	1370.4	1266.0	1183.4
47.5°	943.1	1166.9	1251.7	1144.3	1072.3
50°	862.8	1067.8	1139.1	1035.5	968.6
52.5°	781.7	972.4	1027.2	936.4	875.5
55°	692.3	873.3	928.8	847.7	787.7
57.5°	610.5	785.4	829.0	765.1	704.3
60°	532.4	697.6	743.4	682.6	632.2
62.5°	452.0	621.7	665.3	612.0	555.7
65°	379.9	548.1	587.9	539.1	479.8
67.5°	316.1	485.8	521.9	456.5	400.2
70°	256.1	430.3	455.0	382.2	331.1
72.5°	202.7	378.4	386.7	310.9	265.8
75°	158.4	334.1	314.6	251.5	212.5
77.5°	117.9	295.1	253.8	199.7	166.7
80°	85.6	256.1	199.7	152.4	128.4
82.5°	59.3	211.0	153.2	114.9	94.6
85°	34.5	166.7	111.9	83.3	65.3
87.5°	12.8	135.2	81.8	56.3	43.6
90°	1.5	106.6	61.6	40.5	28.5
92.5°	0.8	90.1	51.1	33.8	23.3
95°	0.0	74.3	45.8	30.8	21.8
97.5°	0.0	58.6	42.0	30.0	21.8
100°	0.0	38.3	39.0	28.5	21.0
102.5°	0.0	21.8	36.8	28.5	21.8
105°	0.0	18.8	33.8	29.3	22.5
107.5°	0.0	17.3	30.0	30.8	24.0
110°	0.0	16.5	19.5	31.5	25.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	15.0	7.5	32.3	27.0
115°	0.0	14.3	6.0	22.5	25.5
117.5°	0.0	13.5	6.0	15.8	16.5
120°	0.8	12.0	6.0	4.5	4.5
122.5°	0.8	11.3	5.3	4.5	0.0
125°	0.8	10.5	5.3	4.5	0.0
127.5°	0.8	9.0	5.3	5.3	0.0
130°	0.8	8.3	5.3	4.5	0.0
132.5°	0.8	7.5	5.3	5.3	0.0
135°	0.8	6.0	5.3	5.3	0.0
137.5°	0.8	5.3	4.5	5.3	0.0
140°	0.8	4.5	4.5	5.3	0.0
142.5°	0.8	3.8	4.5	5.3	0.0
145°	0.8	3.0	3.8	4.5	0.0
147.5°	0.8	2.3	3.8	4.5	0.0
150°	0.8	2.3	3.0	4.5	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)