

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: P232601

Luminaire Tested: **4SKB1-LD5-4-W-UNV-L840-CD1-RS-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P232601  
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-LD5-4-W-UNV-L840-CD1-RS-U  
Description: METALUX SKYBAR 4' WAVESTREAM STRIP  
WITH WIDE LENS AND REFLECTOR  
Light Source: (196) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3900.0 lumens  
Efficiency: N/A  
Efficacy: 134.5 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

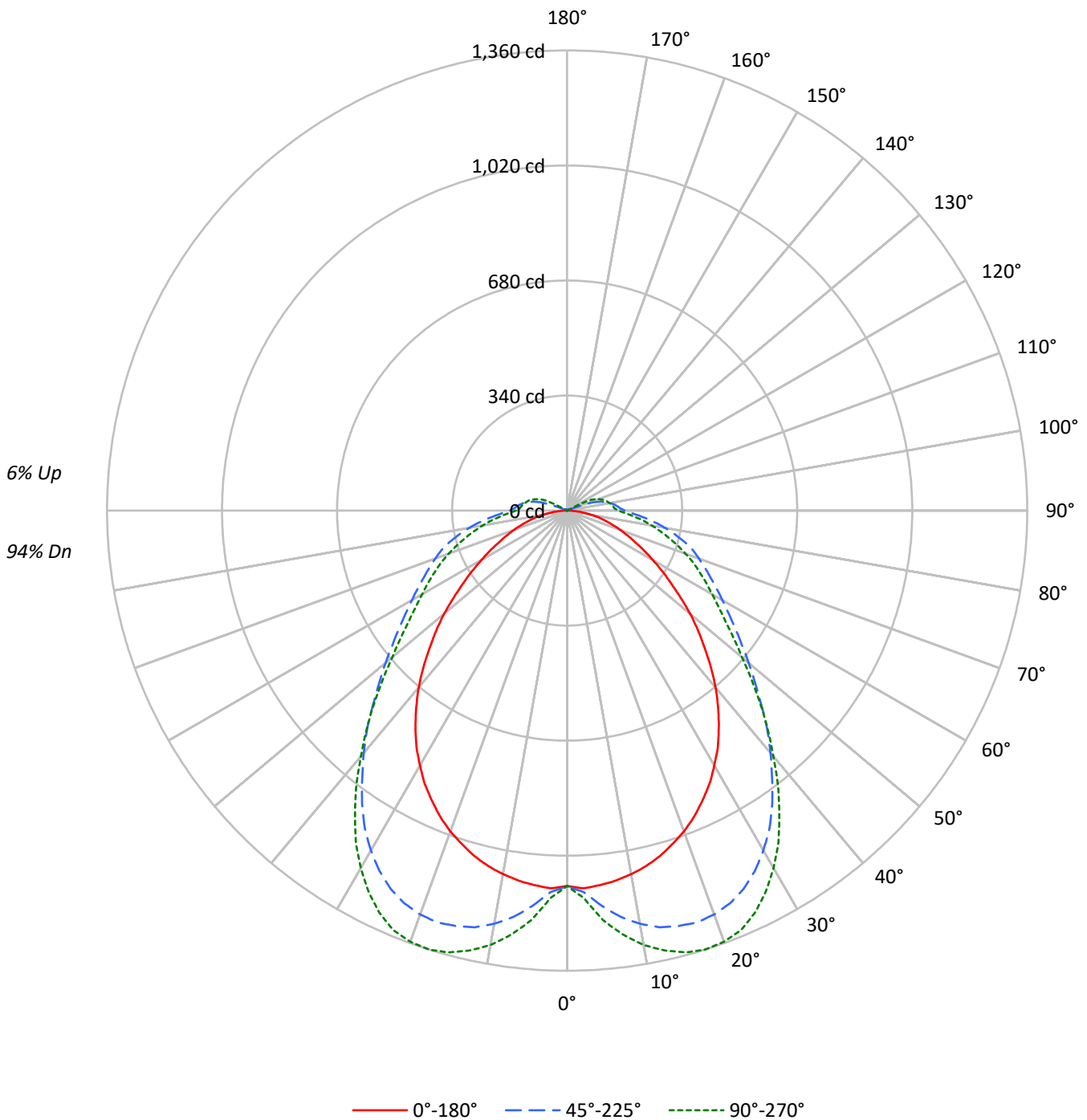
Input Watts (W): 29  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	11941	11941	11941
5°	11930	11767	11909
10°	11772	11735	11819
15°	11557	11468	11476
20°	11263	11031	10901
25°	10862	10402	10091
30°	10376	9571	9060
35°	9770	8605	7906
40°	9038	7568	6732
45°	8158	6579	5673
50°	7307	5737	4725
55°	6370	5042	4023
60°	5583	4529	3525
65°	4892	4134	3143
70°	4384	3829	2788
75°	3838	3509	2413
80°	3223	3045	2062
85°	2142	2522	1704



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.4	2.9
10°-20°	352.5	9.0
20°-30°	549.1	14.1
30°-40°	631.3	16.2
40°-50°	591.4	15.2
50°-60°	497.5	12.8
60°-70°	407.5	10.4
70°-80°	317.3	8.1
80°-90°	204.5	5.2
90°-100°	125.9	3.2
100°-110°	78.2	2.0
110°-120°	25.7	0.7
120°-130°	3.5	0.1
130°-140°	1.6	0.0
140°-150°	0.6	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1015.0	26.0
0°-40°	1646.3	42.2
0°-60°	2735.2	70.1
0°-90°	3664.4	94.0
90°-120°	229.9	5.9
90°-150°	235.6	6.0
90°-180°	236.0	6.1
0°-180°	3900.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1109	1109	1109	1109	1109	
5°	1111	1134	1172	1211	1215	105
15°	1057	1176	1271	1342	1352	298
25°	946	1118	1234	1305	1312	435
35°	782	955	1057	1100	1093	488
45°	575	735	811	825	808	445
55°	375	537	605	595	572	338
65°	222	396	467	448	432	223
75°	117	302	360	326	311	126
85°	32	199	225	205	198	35
90°	2	138	170	156	152	2
95°	0	105	148	141	136	0
105°	0	21	102	118	116	0
115°	0	14	10	47	72	0
125°	0	9	7	0	0	0
135°	0	4	4	0	0	0
145°	1	1	2	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°	1109.4	1109.4	1109.4	1109.4	1109.4
2.5°	1117.5	1119.8	1128.5	1151.1	1146.5
5°	1111.2	1134.3	1172.5	1210.7	1214.7
7.5°	1103.1	1154.0	1211.2	1259.8	1263.9
10°	1090.9	1167.3	1239.6	1298.6	1303.8
12.5°	1076.5	1176.0	1261.6	1326.3	1331.6
15°	1057.4	1176.0	1270.8	1342.0	1351.8
17.5°	1033.7	1171.3	1276.0	1350.6	1359.9
20°	1009.4	1160.3	1270.2	1347.2	1355.8
22.5°	979.9	1143.0	1256.4	1331.6	1342.0
25°	945.7	1118.1	1233.8	1304.9	1311.9
27.5°	911.0	1086.9	1200.8	1265.6	1270.8
30°	870.0	1048.1	1159.8	1217.6	1219.9
32.5°	828.9	1007.1	1113.5	1163.8	1162.1
35°	781.5	955.0	1056.8	1100.2	1093.2
37.5°	732.3	904.7	994.9	1030.2	1023.2
40°	682.6	849.1	934.7	959.0	948.1
42.5°	628.8	791.3	874.6	890.2	876.9
45°	575.0	735.2	811.0	824.8	807.5
47.5°	525.2	679.7	753.1	755.4	738.7
50°	474.3	629.3	700.5	698.2	674.5
52.5°	422.3	580.7	650.7	645.0	620.7
55°	374.8	536.8	605.0	594.6	571.5
57.5°	333.2	496.3	565.7	549.5	530.4
60°	292.1	459.3	529.8	511.9	494.6
62.5°	256.8	424.6	496.9	478.4	463.3
65°	222.1	396.2	467.4	447.7	432.1
67.5°	193.2	367.9	440.8	418.8	403.7
70°	167.2	344.2	414.7	389.3	372.5
72.5°	141.7	323.3	389.9	355.7	341.3
75°	117.4	301.9	360.4	325.7	310.6
77.5°	96.6	282.3	326.8	293.8	281.7
80°	73.5	262.0	293.3	263.8	253.4
82.5°	52.1	233.1	260.3	233.7	226.2
85°	31.8	199.0	225.0	205.3	197.8
87.5°	13.9	164.3	193.8	177.6	172.4
90°	1.7	138.2	169.5	156.2	151.5
92.5°	0.6	121.5	156.8	145.8	140.6
95°	0.0	104.7	148.1	141.1	136.5
97.5°	0.0	85.0	140.0	137.1	132.5
100°	0.0	55.0	129.6	131.3	127.3
102.5°	0.0	23.1	117.4	124.9	121.5
105°	0.0	21.4	101.8	118.0	116.3
107.5°	0.0	19.7	80.4	108.7	107.6
110°	0.0	17.9	41.6	97.8	98.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	16.2	10.4	83.3	86.8
115°	0.0	14.5	9.8	47.4	72.3
117.5°	0.0	13.3	8.7	0.6	24.9
120°	0.0	11.6	8.1	0.6	0.0
122.5°	0.0	9.8	7.5	0.0	0.0
125°	0.0	8.7	6.9	0.0	0.0
127.5°	0.0	7.5	5.8	0.0	0.0
130°	0.0	6.4	5.2	0.0	0.0
132.5°	0.0	5.2	4.6	0.0	0.0
135°	0.0	4.0	4.0	0.0	0.0
137.5°	0.0	3.5	3.5	0.0	0.0
140°	0.0	2.3	2.9	0.0	0.0
142.5°	0.6	1.7	2.3	0.0	0.0
145°	0.6	1.2	1.7	0.0	0.0
147.5°	0.6	1.2	1.7	0.0	0.0
150°	0.6	0.6	1.2	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)