

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: P232525

Luminaire Tested: **8SKB1-LD5-6-W-UNV-L835-CD1-RS-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P232525  
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-L835-CD1-RS-U  
Description: METALUX SKYBAR 8' WAVESTREAM STRIP  
WITH WIDE LENS AND REFLECTOR  
Light Source: (392) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5478.0 lumens  
Efficiency: N/A  
Efficacy: 130.4 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

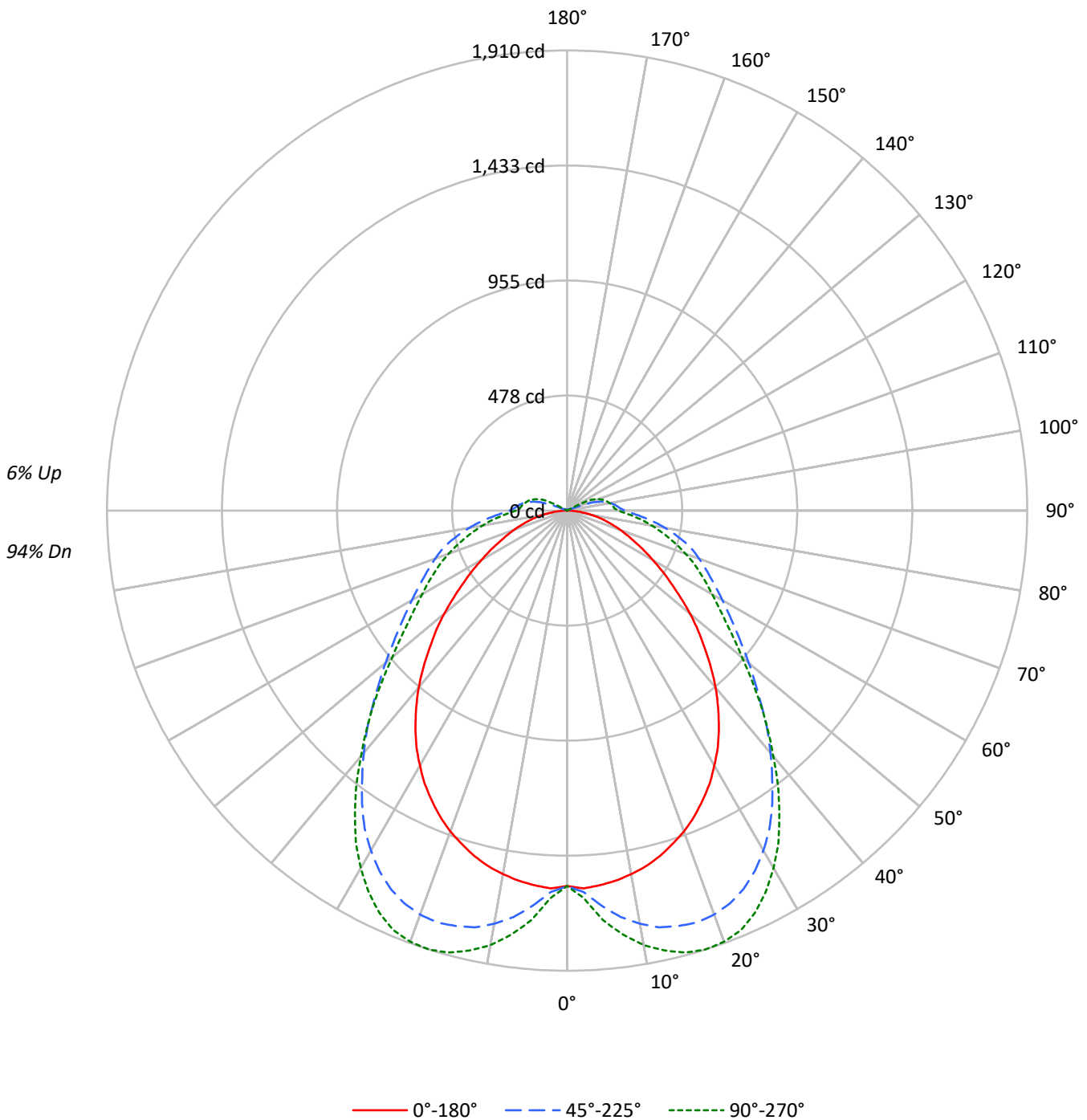
Input Watts (W): 42  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	8387	8387	8387
5°	8405	8281	8364
10°	8321	8274	8300
15°	8195	8099	8060
20°	8014	7803	7656
25°	7757	7368	7087
30°	7438	6789	6363
35°	7033	6112	5553
40°	6536	5382	4728
45°	5931	4685	3984
50°	5346	4091	3318
55°	4696	3600	2825
60°	4154	3238	2475
65°	3685	2960	2207
70°	3358	2746	1958
75°	3018	2521	1694
80°	2650	2192	1448
85°	1948	1820	1197



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.2	2.9
10°-20°	495.2	9.0
20°-30°	771.2	14.1
30°-40°	886.7	16.2
40°-50°	830.7	15.2
50°-60°	698.8	12.8
60°-70°	572.4	10.4
70°-80°	445.6	8.1
80°-90°	287.2	5.2
90°-100°	176.8	3.2
100°-110°	109.9	2.0
110°-120°	36.1	0.7
120°-130°	4.9	0.1
130°-140°	2.3	0.0
140°-150°	0.8	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1425.6	26.0
0°-40°	2312.4	42.2
0°-60°	3841.9	70.1
0°-90°	5147.1	94.0
90°-120°	322.8	5.9
90°-150°	330.8	6.0
90°-180°	331.0	6.0
0°-180°	5478.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1558	1558	1558	1558	1558	
5°	1561	1593	1647	1700	1706	148
15°	1485	1652	1785	1885	1899	418
25°	1328	1570	1733	1833	1843	611
35°	1098	1341	1484	1545	1536	685
45°	808	1033	1139	1159	1134	624
55°	526	754	850	835	803	475
65°	312	556	656	629	607	313
75°	165	424	506	457	436	176
85°	45	280	316	288	278	49
90°	2	194	238	219	213	3
95°	0	147	208	198	192	0
105°	0	30	143	166	163	0
115°	0	20	14	67	102	0
125°	0	12	10	0	0	0
135°	0	6	6	0	0	0
145°	1	2	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°	1558.3	1558.3	1558.3	1558.3	1558.3
2.5°	1569.7	1573.0	1585.1	1616.8	1610.3
5°	1560.8	1593.3	1646.9	1700.5	1706.2
7.5°	1549.4	1620.9	1701.3	1769.6	1775.3
10°	1532.3	1639.6	1741.1	1824.0	1831.3
12.5°	1512.0	1651.8	1772.0	1863.0	1870.3
15°	1485.2	1651.8	1785.0	1884.9	1898.8
17.5°	1451.9	1645.3	1792.3	1897.1	1910.1
20°	1417.8	1629.8	1784.2	1892.3	1904.4
22.5°	1376.3	1605.5	1764.7	1870.3	1884.9
25°	1328.4	1570.5	1733.0	1832.9	1842.7
27.5°	1279.7	1526.6	1686.7	1777.7	1785.0
30°	1222.0	1472.2	1629.0	1710.3	1713.5
32.5°	1164.3	1414.5	1564.0	1634.7	1632.3
35°	1097.7	1341.4	1484.4	1545.3	1535.6
37.5°	1028.6	1270.7	1397.5	1447.0	1437.3
40°	958.7	1192.7	1313.0	1347.1	1331.7
42.5°	883.2	1111.5	1228.5	1250.4	1231.7
45°	807.6	1032.7	1139.1	1158.6	1134.2
47.5°	737.7	954.7	1057.8	1061.1	1037.5
50°	666.2	884.0	983.9	980.7	947.3
52.5°	593.1	815.7	914.0	905.9	871.8
55°	526.5	754.0	849.9	835.2	802.7
57.5°	468.0	697.1	794.6	771.9	745.0
60°	410.3	645.1	744.2	719.0	694.7
62.5°	360.7	596.4	697.9	671.9	650.8
65°	312.0	556.5	656.5	628.9	606.9
67.5°	271.4	516.7	619.1	588.2	567.1
70°	234.8	483.4	582.5	546.8	523.2
72.5°	199.1	454.2	547.6	499.7	479.4
75°	164.9	424.1	506.2	457.4	436.3
77.5°	135.7	396.5	459.0	412.7	395.7
80°	103.2	368.1	411.9	370.5	355.9
82.5°	73.1	327.4	365.6	328.2	317.7
85°	44.7	279.5	316.1	288.4	277.9
87.5°	19.5	230.7	272.2	249.4	242.1
90°	2.4	194.2	238.1	219.4	212.9
92.5°	0.8	170.6	220.2	204.7	197.4
95°	0.0	147.1	208.0	198.2	191.7
97.5°	0.0	119.4	196.6	192.6	186.1
100°	0.0	77.2	182.0	184.4	178.7
102.5°	0.0	32.5	164.9	175.5	170.6
105°	0.0	30.1	143.0	165.7	163.3
107.5°	0.0	27.6	112.9	152.7	151.1
110°	0.0	25.2	58.5	137.3	138.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	22.7	14.6	117.0	121.9
115°	0.0	20.3	13.8	66.6	101.6
117.5°	0.0	18.7	12.2	0.8	34.9
120°	0.0	16.2	11.4	0.8	0.0
122.5°	0.0	13.8	10.6	0.0	0.0
125°	0.0	12.2	9.7	0.0	0.0
127.5°	0.0	10.6	8.1	0.0	0.0
130°	0.0	8.9	7.3	0.0	0.0
132.5°	0.0	7.3	6.5	0.0	0.0
135°	0.0	5.7	5.7	0.0	0.0
137.5°	0.0	4.9	4.9	0.0	0.0
140°	0.0	3.2	4.1	0.0	0.0
142.5°	0.8	2.4	3.2	0.0	0.0
145°	0.8	1.6	2.4	0.0	0.0
147.5°	0.8	1.6	2.4	0.0	0.0
150°	0.8	0.8	1.6	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)