

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: P232541

Luminaire Tested: **8SKB1-LD5-16-W-UNV-L840-CD2-RS-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P232541  
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-LD5-16-W-UNV-L840-CD2-RS-U  
Description: METALUX SKYBAR 8' WAVESTREAM STRIP  
WITH WIDE LENS AND REFLECTOR  
Light Source: (476) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15683.0 lumens  
Efficiency: N/A  
Efficacy: 120.2 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

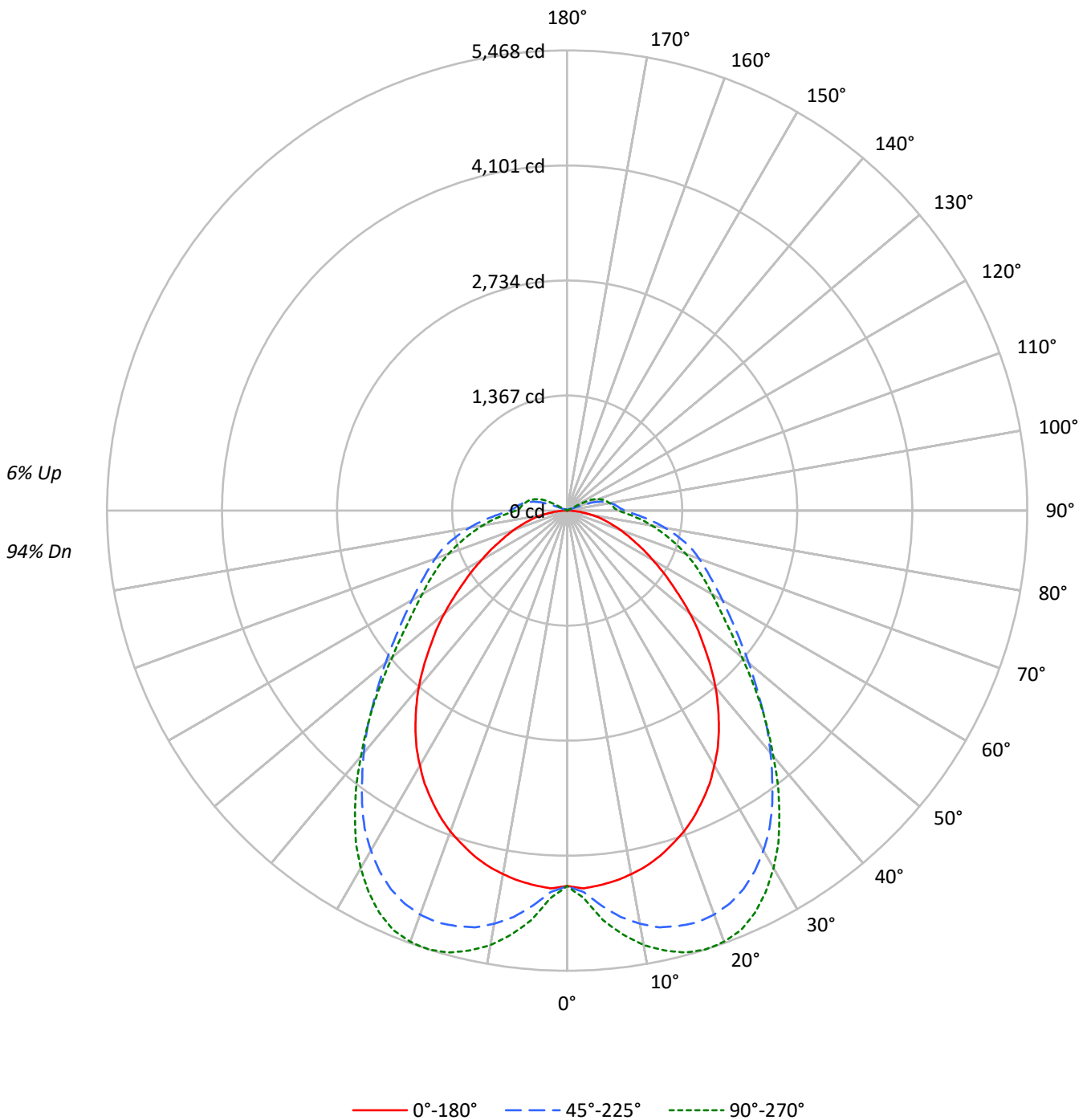
Input Watts (W): 130.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	24011	24011	24011
5°	24063	23708	23945
10°	23821	23688	23764
15°	23462	23188	23075
20°	22943	22338	21919
25°	22207	21094	20289
30°	21293	19436	18216
35°	20133	17498	15897
40°	18711	15409	13535
45°	16979	13411	11407
50°	15305	11711	9500
55°	13443	10307	8088
60°	11893	9272	7087
65°	10550	8474	6319
70°	9614	7863	5605
75°	8643	7217	4851
80°	7587	6275	4146
85°	5575	5210	3427



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	455.9	2.9
10°-20°	1417.7	9.0
20°-30°	2207.9	14.1
30°-40°	2538.6	16.2
40°-50°	2378.3	15.2
50°-60°	2000.5	12.8
60°-70°	1638.6	10.4
70°-80°	1275.8	8.1
80°-90°	822.2	5.2
90°-100°	506.1	3.2
100°-110°	314.7	2.0
110°-120°	103.5	0.7
120°-130°	14.1	0.1
130°-140°	6.5	0.0
140°-150°	2.3	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4081.5	26.0
0°-40°	6620.1	42.2
0°-60°	10999.0	70.1
0°-90°	14735.6	94.0
90°-120°	924.3	5.9
90°-150°	947.2	6.0
90°-180°	947.0	6.0
0°-180°	15683.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4461	4461	4461	4461	4461	
5°	4468	4561	4715	4868	4885	424
15°	4252	4729	5110	5396	5436	1197
25°	3803	4496	4962	5248	5276	1750
35°	3142	3840	4250	4424	4396	1960
45°	2312	2956	3261	3317	3247	1788
55°	1507	2159	2433	2391	2298	1359
65°	893	1593	1879	1800	1738	897
75°	472	1214	1449	1310	1249	505
85°	128	800	905	826	796	139
90°	7	556	682	628	609	10
95°	0	421	596	568	549	0
105°	0	86	409	474	468	0
115°	0	58	40	191	291	0
125°	0	35	28	0	0	0
135°	0	16	16	0	0	0
145°	2	5	7	0	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°	4461.4	4461.4	4461.4	4461.4	4461.4
2.5°	4493.9	4503.2	4538.1	4628.8	4610.2
5°	4468.3	4561.4	4714.9	4868.4	4884.7
7.5°	4435.8	4640.5	4870.7	5066.1	5082.4
10°	4386.9	4694.0	4984.7	5222.0	5242.9
12.5°	4328.8	4728.9	5073.1	5333.6	5354.6
15°	4252.0	4728.9	5110.3	5396.4	5436.0
17.5°	4156.6	4710.2	5131.3	5431.3	5468.5
20°	4059.0	4666.0	5108.0	5417.4	5452.3
22.5°	3940.3	4596.3	5052.2	5354.6	5396.4
25°	3803.1	4496.2	4961.5	5247.6	5275.5
27.5°	3663.5	4370.6	4828.9	5089.4	5110.3
30°	3498.4	4214.8	4663.7	4896.3	4905.6
32.5°	3333.2	4049.6	4477.6	4680.0	4673.0
35°	3142.5	3840.3	4249.7	4424.1	4396.2
37.5°	2944.8	3637.9	4000.8	4142.7	4114.8
40°	2744.7	3414.6	3758.9	3856.6	3812.4
42.5°	2528.4	3182.0	3517.0	3579.8	3526.3
45°	2312.1	2956.4	3261.1	3316.9	3247.2
47.5°	2112.1	2733.1	3028.5	3037.8	2970.4
50°	1907.4	2530.7	2816.8	2807.5	2712.2
52.5°	1698.0	2335.4	2616.8	2593.5	2495.8
55°	1507.3	2158.6	2433.0	2391.2	2298.1
57.5°	1339.8	1995.7	2274.9	2209.7	2133.0
60°	1174.7	1846.9	2130.7	2058.6	1988.8
62.5°	1032.8	1707.3	1998.1	1923.6	1863.2
65°	893.2	1593.3	1879.4	1800.4	1737.6
67.5°	776.9	1479.4	1772.4	1684.1	1623.6
70°	672.2	1384.0	1667.8	1565.4	1498.0
72.5°	569.9	1300.3	1567.8	1430.5	1372.4
75°	472.2	1214.2	1449.1	1309.6	1249.1
77.5°	388.4	1135.1	1314.2	1181.6	1132.8
80°	295.4	1053.7	1179.3	1060.7	1018.8
82.5°	209.3	937.4	1046.7	939.7	909.5
85°	127.9	800.2	904.8	825.7	795.5
87.5°	55.8	660.6	779.2	714.1	693.2
90°	7.0	555.9	681.5	628.0	609.4
92.5°	2.3	488.5	630.4	586.2	565.2
95°	0.0	421.0	595.5	567.6	548.9
97.5°	0.0	341.9	562.9	551.3	532.7
100°	0.0	221.0	521.0	528.0	511.7
102.5°	0.0	93.0	472.2	502.4	488.5
105°	0.0	86.1	409.4	474.5	467.5
107.5°	0.0	79.1	323.3	437.3	432.6
110°	0.0	72.1	167.5	393.1	395.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	65.1	41.9	335.0	348.9
115°	0.0	58.2	39.5	190.7	290.8
117.5°	0.0	53.5	34.9	2.3	100.0
120°	0.0	46.5	32.6	2.3	0.0
122.5°	0.0	39.5	30.2	0.0	0.0
125°	0.0	34.9	27.9	0.0	0.0
127.5°	0.0	30.2	23.3	0.0	0.0
130°	0.0	25.6	20.9	0.0	0.0
132.5°	0.0	20.9	18.6	0.0	0.0
135°	0.0	16.3	16.3	0.0	0.0
137.5°	0.0	14.0	14.0	0.0	0.0
140°	0.0	9.3	11.6	0.0	0.0
142.5°	2.3	7.0	9.3	0.0	0.0
145°	2.3	4.7	7.0	0.0	0.0
147.5°	2.3	4.7	7.0	0.0	0.0
150°	2.3	2.3	4.7	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)