

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: P#

Luminaire Tested: **8SKB1-LD5-14-N-RS-UNV-L840-CD2-RS-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P#  
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: 8SKB1-LD5-14-N-RS-UNV-L840-CD2-RS-U  
Description: METALUX SKYBAR 8' WAVESTREAM STRIP  
WITH NARROW LENS AND REFLECTOR  
Light Source: (476) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

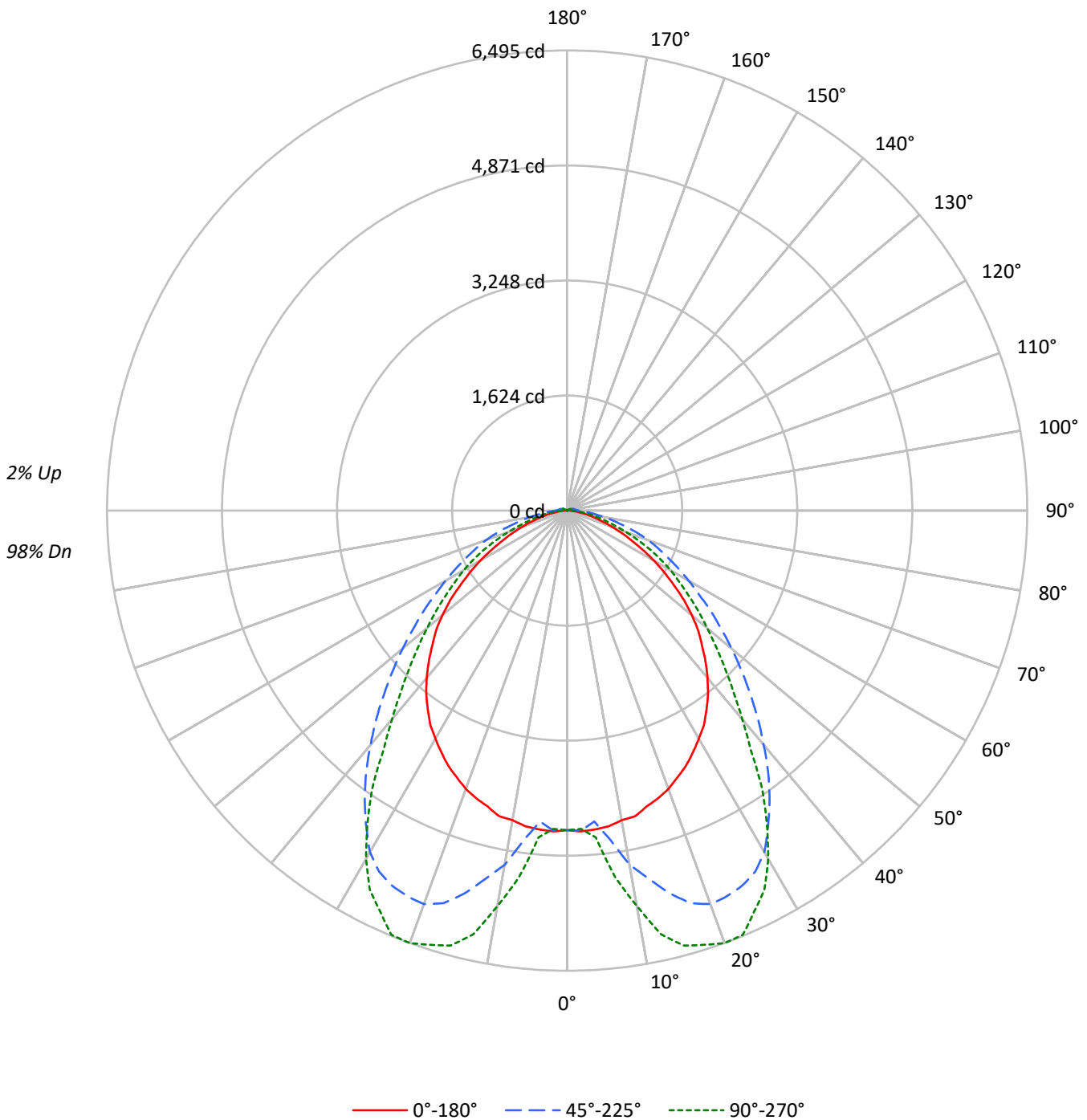
Lumens per Lamp: N/A  
Luminaire Lumens: 14704.0 lumens  
Efficiency: N/A  
Efficacy: 139.5 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.5 / 1.49  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.29')  
CIE Type: Direct

Input Watts (W): 105.4  
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°	24270	24270	24270
5°	24329	22142	22695
10°	24096	24110	25679
15°	23868	25380	26977
20°	23625	25852	26113
25°	23190	24844	24020
30°	22628	23203	21075
35°	21973	20511	17363
40°	21008	17691	13645
45°	19766	15009	11071
50°	18438	12613	9036
55°	16444	10479	7383
60°	14356	8615	6000
65°	11952	7060	4647
70°	9753	5714	3300
75°	7724	4173	2198
80°	5856	2831	1392
85°	4010	1716	750



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	451.2	3.1
10°-20°	1539.7	10.5
20°-30°	2524.9	17.2
30°-40°	2854.1	19.4
40°-50°	2571.5	17.5
50°-60°	2026.2	13.8
60°-70°	1393.6	9.5
70°-80°	777.1	5.3
80°-90°	315.4	2.1
90°-100°	120.0	0.8
100°-110°	66.9	0.5
110°-120°	36.6	0.2
120°-130°	12.5	0.1
130°-140°	8.7	0.1
140°-150°	5.1	0.0
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4515.8	30.7
0°-40°	7369.9	50.1
0°-60°	11967.6	81.4
0°-90°	14453.7	98.3
90°-120°	223.6	1.5
90°-150°	249.9	1.7
90°-180°	250.0	1.7
0°-180°	14704.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4510	4510	4510	4510	4510	
5°	4518	4536	4404	4600	4630	429
15°	4326	4656	5594	6241	6355	1223
25°	3972	4802	5844	6277	6245	1827
35°	3430	4326	4982	4910	4802	2142
45°	2692	3362	3650	3372	3152	2080
55°	1844	2326	2474	2258	2098	1654
65°	1012	1460	1566	1436	1278	1015
75°	422	890	838	670	566	456
85°	92	444	298	222	174	104
90°	4	284	164	108	76	6
95°	0	198	122	82	58	0
105°	0	50	90	78	60	0
115°	0	38	16	60	68	0
125°	2	28	14	12	0	2
135°	2	16	14	14	0	2
145°	2	8	10	12	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°	4509.6	4509.6	4509.6	4509.6	4509.6
2.5°	4531.6	4523.6	4519.6	4557.6	4497.6
5°	4517.6	4535.6	4403.6	4599.6	4629.6
7.5°	4493.6	4441.6	4687.6	5119.5	5223.5
10°	4437.6	4381.6	5073.5	5551.5	5665.5
12.5°	4421.6	4495.6	5321.5	5963.4	6123.4
15°	4325.6	4655.6	5593.5	6241.4	6355.4
17.5°	4259.6	4769.6	5811.5	6347.4	6427.4
20°	4179.6	4803.6	5911.4	6407.4	6495.4
22.5°	4073.6	4837.5	5893.5	6409.4	6481.4
25°	3971.6	4801.6	5843.5	6277.4	6245.4
27.5°	3847.6	4721.6	5747.5	6077.4	6031.4
30°	3717.7	4635.6	5567.5	5753.5	5675.5
32.5°	3591.7	4507.6	5279.5	5335.5	5245.5
35°	3429.7	4325.6	4981.5	4909.5	4801.6
37.5°	3265.7	4111.6	4663.6	4473.6	4257.6
40°	3081.7	3869.6	4315.6	4093.6	3843.6
42.5°	2891.7	3611.7	3985.6	3715.7	3475.7
45°	2691.7	3361.7	3649.7	3371.7	3151.7
47.5°	2511.8	3107.7	3333.7	3047.7	2855.7
50°	2297.8	2843.7	3033.7	2757.7	2579.8
52.5°	2081.8	2589.8	2735.7	2493.8	2331.8
55°	1843.8	2325.8	2473.8	2257.8	2097.8
57.5°	1625.8	2091.8	2207.8	2037.8	1875.8
60°	1417.9	1857.8	1979.8	1817.8	1683.8
62.5°	1203.9	1655.8	1771.8	1629.8	1479.9
65°	1011.9	1459.9	1565.9	1435.9	1277.9
67.5°	841.9	1293.9	1389.9	1215.9	1065.9
70°	681.9	1145.9	1211.9	1017.9	881.9
72.5°	539.9	1007.9	1029.9	827.9	707.9
75°	422.0	889.9	837.9	669.9	565.9
77.5°	314.0	785.9	675.9	532.0	444.0
80°	228.0	681.9	532.0	406.0	342.0
82.5°	158.0	561.9	408.0	306.0	252.0
85°	92.0	444.0	298.0	222.0	174.0
87.5°	34.0	360.0	218.0	150.0	116.0
90°	4.0	284.0	164.0	108.0	76.0
92.5°	2.0	240.0	136.0	90.0	62.0
95°	0.0	198.0	122.0	82.0	58.0
97.5°	0.0	156.0	112.0	80.0	58.0
100°	0.0	102.0	104.0	76.0	56.0
102.5°	0.0	58.0	98.0	76.0	58.0
105°	0.0	50.0	90.0	78.0	60.0
107.5°	0.0	46.0	80.0	82.0	64.0
110°	0.0	44.0	52.0	84.0	68.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	40.0	20.0	86.0	72.0
115°	0.0	38.0	16.0	60.0	68.0
117.5°	0.0	36.0	16.0	42.0	44.0
120°	2.0	32.0	16.0	12.0	12.0
122.5°	2.0	30.0	14.0	12.0	0.0
125°	2.0	28.0	14.0	12.0	0.0
127.5°	2.0	24.0	14.0	14.0	0.0
130°	2.0	22.0	14.0	12.0	0.0
132.5°	2.0	20.0	14.0	14.0	0.0
135°	2.0	16.0	14.0	14.0	0.0
137.5°	2.0	14.0	12.0	14.0	0.0
140°	2.0	12.0	12.0	14.0	0.0
142.5°	2.0	10.0	12.0	14.0	0.0
145°	2.0	8.0	10.0	12.0	0.0
147.5°	2.0	6.0	10.0	12.0	0.0
150°	2.0	6.0	8.0	12.0	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)