

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: P232599

Luminaire Tested: **4SKB1-LD5-3-W-UNV-L850-CD1-RS-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P232599  
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-LD5-3-W-UNV-L850-CD1-RS-U  
Description: METALUX SKYBAR 4' WAVESTREAM STRIP  
WITH WIDE LENS AND REFLECTOR  
Light Source: (196) 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3022.0 lumens  
Efficiency: N/A  
Efficacy: 141.0 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

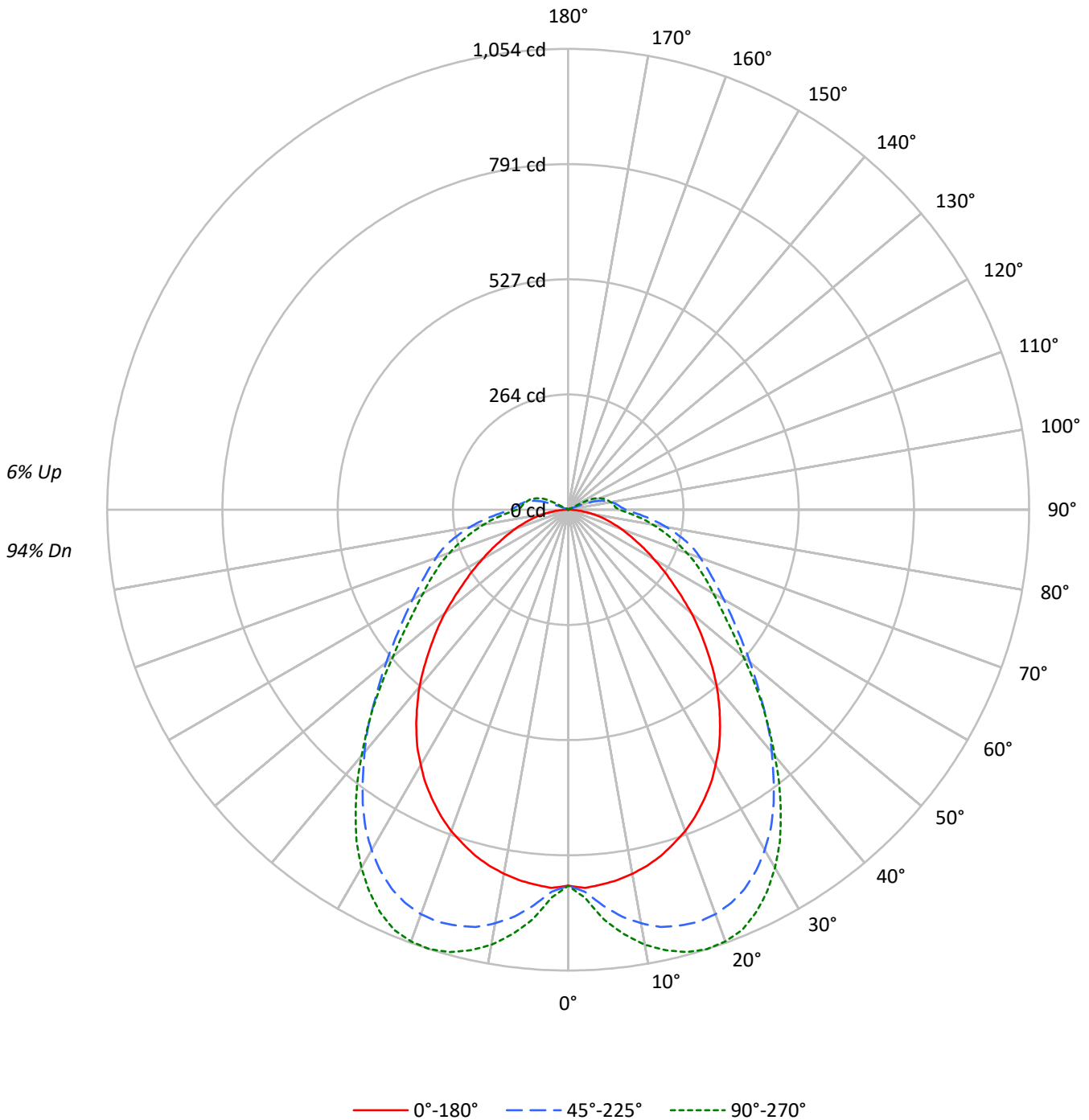
Input Watts (W): 21.44  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	9254	9254	9254
5°	9244	9117	9228
10°	9122	9093	9158
15°	8955	8886	8893
20°	8727	8548	8447
25°	8417	8060	7819
30°	8040	7417	7020
35°	7570	6668	6126
40°	7003	5864	5216
45°	6321	5098	4396
50°	5662	4446	3661
55°	4936	3907	3117
60°	4325	3510	2731
65°	3791	3203	2435
70°	3395	2968	2160
75°	2975	2718	1870
80°	2495	2359	1598
85°	1664	1955	1321



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.8	2.9
10°-20°	273.2	9.0
20°-30°	425.5	14.1
30°-40°	489.2	16.2
40°-50°	458.3	15.2
50°-60°	385.5	12.8
60°-70°	315.8	10.4
70°-80°	245.8	8.1
80°-90°	158.4	5.2
90°-100°	97.5	3.2
100°-110°	60.6	2.0
110°-120°	19.9	0.7
120°-130°	2.7	0.1
130°-140°	1.3	0.0
140°-150°	0.4	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	786.5	26.0
0°-40°	1275.7	42.2
0°-60°	2119.4	70.1
0°-90°	2839.5	94.0
90°-120°	178.1	5.9
90°-150°	182.5	6.0
90°-180°	183.0	6.1
0°-180°	3022.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	860	860	860	860	860	
5°	861	879	908	938	941	82
15°	819	911	985	1040	1048	231
25°	733	866	956	1011	1016	337
35°	606	740	819	852	847	378
45°	446	570	628	639	626	344
55°	290	416	469	461	443	262
65°	172	307	362	347	335	173
75°	91	234	279	252	241	97
85°	25	154	174	159	153	27
90°	1	107	131	121	117	2
95°	0	81	115	109	106	0
105°	0	17	79	91	90	0
115°	0	11	8	37	56	0
125°	0	7	5	0	0	0
135°	0	3	3	0	0	0
145°	0	1	1	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°	859.7	859.7	859.7	859.7	859.7
2.5°	865.9	867.7	874.5	891.9	888.4
5°	861.0	878.9	908.5	938.1	941.2
7.5°	854.7	894.2	938.6	976.2	979.3
10°	845.3	904.5	960.5	1006.2	1010.3
12.5°	834.1	911.2	977.6	1027.8	1031.8
15°	819.3	911.2	984.7	1039.9	1047.5
17.5°	801.0	907.6	988.8	1046.6	1053.7
20°	782.1	899.1	984.3	1043.9	1050.6
22.5°	759.3	885.7	973.5	1031.8	1039.9
25°	732.8	866.4	956.0	1011.2	1016.5
27.5°	705.9	842.2	930.5	980.7	984.7
30°	674.1	812.2	898.7	943.5	945.3
32.5°	642.3	780.3	862.8	901.8	900.5
35°	605.5	740.0	818.9	852.5	847.1
37.5°	567.4	701.0	770.9	798.3	792.9
40°	528.9	658.0	724.3	743.1	734.6
42.5°	487.2	613.2	677.7	689.8	679.5
45°	445.5	569.7	628.4	639.2	625.7
47.5°	407.0	526.6	583.6	585.4	572.4
50°	367.5	487.7	542.8	541.0	522.6
52.5°	327.2	450.0	504.2	499.8	480.9
55°	290.4	415.9	468.8	460.8	442.8
57.5°	258.2	384.6	438.4	425.8	411.0
60°	226.3	355.9	410.6	396.7	383.2
62.5°	199.0	329.0	385.0	370.7	359.0
65°	172.1	307.0	362.2	346.9	334.8
67.5°	149.7	285.1	341.5	324.5	312.9
70°	129.5	266.7	321.4	301.6	288.6
72.5°	109.8	250.6	302.1	275.7	264.4
75°	91.0	234.0	279.2	252.3	240.7
77.5°	74.9	218.7	253.2	227.7	218.3
80°	56.9	203.0	227.2	204.4	196.3
82.5°	40.3	180.6	201.7	181.1	175.3
85°	24.7	154.2	174.4	159.1	153.3
87.5°	10.8	127.3	150.2	137.6	133.6
90°	1.3	107.1	131.3	121.0	117.4
92.5°	0.4	94.1	121.5	112.9	108.9
95°	0.0	81.1	114.7	109.4	105.8
97.5°	0.0	65.9	108.5	106.2	102.6
100°	0.0	42.6	100.4	101.7	98.6
102.5°	0.0	17.9	91.0	96.8	94.1
105°	0.0	16.6	78.9	91.4	90.1
107.5°	0.0	15.2	62.3	84.3	83.4
110°	0.0	13.9	32.3	75.7	76.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	12.5	8.1	64.5	67.2
115°	0.0	11.2	7.6	36.8	56.0
117.5°	0.0	10.3	6.7	0.4	19.3
120°	0.0	9.0	6.3	0.4	0.0
122.5°	0.0	7.6	5.8	0.0	0.0
125°	0.0	6.7	5.4	0.0	0.0
127.5°	0.0	5.8	4.5	0.0	0.0
130°	0.0	4.9	4.0	0.0	0.0
132.5°	0.0	4.0	3.6	0.0	0.0
135°	0.0	3.1	3.1	0.0	0.0
137.5°	0.0	2.7	2.7	0.0	0.0
140°	0.0	1.8	2.2	0.0	0.0
142.5°	0.4	1.3	1.8	0.0	0.0
145°	0.4	0.9	1.3	0.0	0.0
147.5°	0.4	0.9	1.3	0.0	0.0
150°	0.4	0.4	0.9	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)