

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: P232615

Luminaire Tested: **4SKB1-LD5-3-N-UNV-L835-CD1-RS-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232615
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: 4SKB1-LD5-3-N-UNV-L835-CD1-RS-U
Description: METALUX SKYBAR 4' WAVESTREAM STRIP
WITH NARROW LENS AND REFLECTOR
Light Source: (196) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2987.0 lumens
Efficiency: N/A
Efficacy: 139.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.5 / 1.49
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.29')
CIE Type: Direct

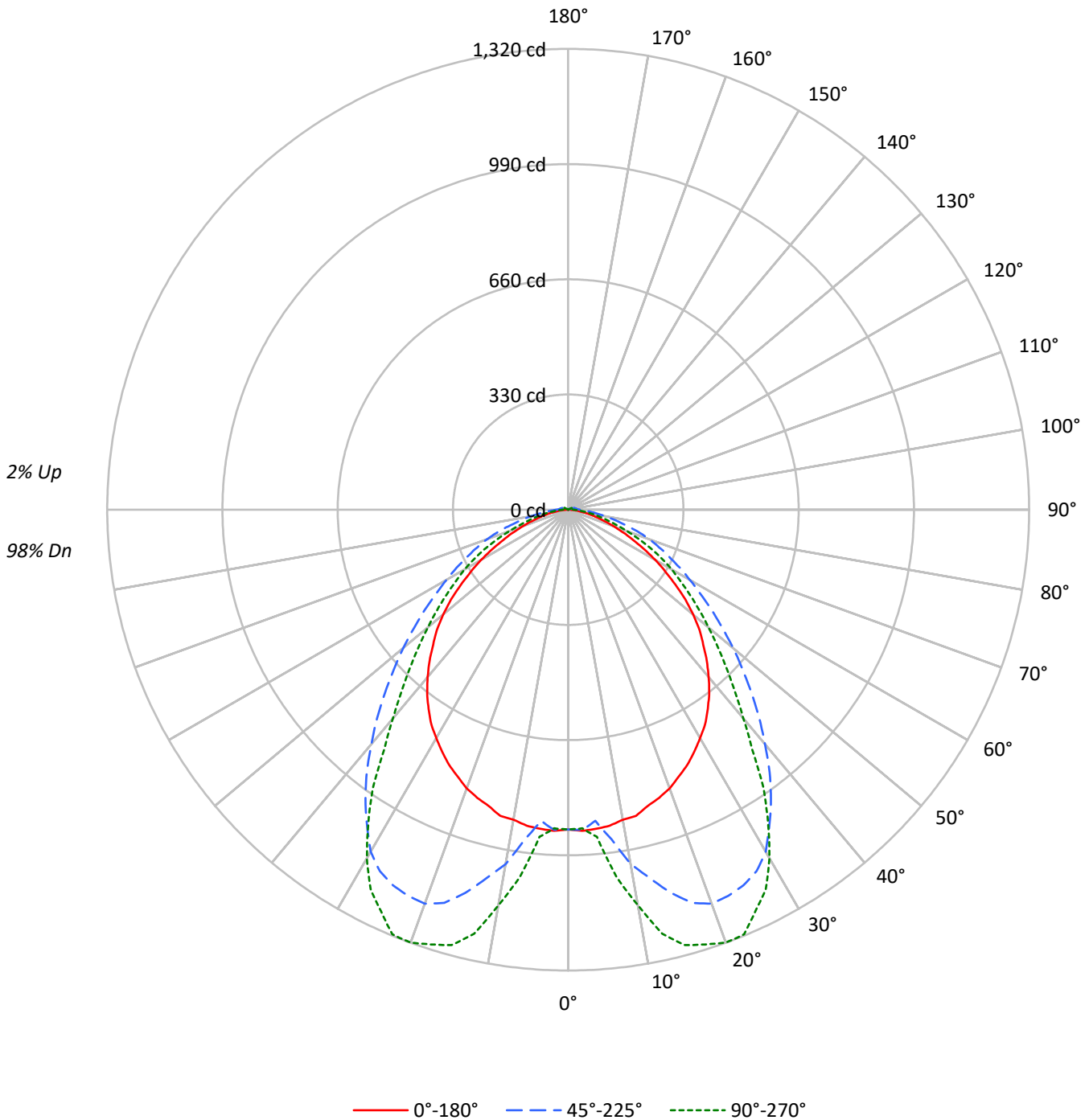
Input Watts (W): 21.44
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	100	100	100	98	
1	109	104	100	97	106	102	98	95	97	94	92	93	91	88	89	87	85	85	85	85	83	
2	100	92	85	80	97	90	84	79	86	81	77	82	78	75	79	76	73	73	73	73	71	
3	91	81	73	67	89	80	72	67	76	70	65	73	68	64	71	66	63	63	63	63	60	
4	84	72	64	58	82	71	63	57	68	62	56	66	60	55	63	58	54	54	54	54	52	
5	77	65	56	50	75	64	56	50	62	54	49	59	53	48	57	52	48	48	48	48	46	
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	52	47	42	42	42	42	40	
7	67	53	45	39	65	53	44	39	51	44	38	49	43	38	48	42	38	38	38	38	36	
8	62	49	41	35	60	48	40	35	47	40	34	45	39	34	44	38	34	34	34	34	32	
9	58	45	37	31	56	44	37	31	43	36	31	42	35	31	41	35	31	31	31	31	29	
10	54	41	34	29	53	41	33	28	40	33	28	39	32	28	38	32	28	28	28	28	26	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9861	9861	9861
5°	9853	8978	9221
10°	9728	9756	10433
15°	9604	10254	10961
20°	9475	10429	10609
25°	9267	10008	9759
30°	9007	9334	8562
35°	8710	8240	7054
40°	8289	7098	5544
45°	7758	6014	4498
50°	7192	5048	3671
55°	6367	4188	3000
60°	5505	3438	2438
65°	4528	2813	1888
70°	3631	2273	1341
75°	2802	1657	893
80°	2030	1122	566
85°	1260	678	304



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.7	3.1
10°-20°	312.8	10.5
20°-30°	512.9	17.2
30°-40°	579.8	19.4
40°-50°	522.4	17.5
50°-60°	411.6	13.8
60°-70°	283.1	9.5
70°-80°	157.9	5.3
80°-90°	64.1	2.1
90°-100°	24.4	0.8
100°-110°	13.6	0.5
110°-120°	7.4	0.2
120°-130°	2.5	0.1
130°-140°	1.7	0.1
140°-150°	1.0	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	917.3	30.7
0°-40°	1497.1	50.1
0°-60°	2431.1	81.4
0°-90°	2936.2	98.3
90°-120°	45.4	1.5
90°-150°	50.7	1.7
90°-180°	51.0	1.7
0°-180°	2987.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	916	916	916	916	916	
5°	918	921	895	934	940	87
15°	879	946	1136	1268	1291	248
25°	807	975	1187	1275	1269	371
35°	697	879	1012	997	975	435
45°	547	683	741	685	640	423
55°	375	472	502	459	426	336
65°	206	297	318	292	260	206
75°	86	181	170	136	115	93
85°	19	90	60	45	35	21
90°	1	58	33	22	15	1
95°	0	40	25	17	12	0
105°	0	10	18	16	12	0
115°	0	8	3	12	14	0
125°	0	6	3	2	0	0
135°	0	3	3	3	0	0
145°	0	2	2	2	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°	916.1	916.1	916.1	916.1	916.1
2.5°	920.6	918.9	918.1	925.8	913.6
5°	917.7	921.4	894.6	934.4	940.5
7.5°	912.8	902.3	952.2	1040.0	1061.1
10°	901.5	890.1	1030.6	1127.7	1150.9
12.5°	898.2	913.2	1081.0	1211.4	1243.9
15°	878.7	945.7	1136.3	1267.9	1291.1
17.5°	865.3	968.9	1180.6	1289.4	1305.7
20°	849.1	975.8	1200.9	1301.6	1319.5
22.5°	827.5	982.7	1197.2	1302.0	1316.6
25°	806.8	975.4	1187.1	1275.2	1268.7
27.5°	781.6	959.1	1167.6	1234.6	1225.2
30°	755.2	941.7	1131.0	1168.8	1152.9
32.5°	729.6	915.7	1072.5	1083.9	1065.6
35°	696.7	878.7	1012.0	997.3	975.4
37.5°	663.4	835.2	947.4	908.8	864.9
40°	626.0	786.1	876.7	831.6	780.8
42.5°	587.4	733.7	809.6	754.8	706.1
45°	546.8	682.9	741.4	684.9	640.2
47.5°	510.2	631.3	677.2	619.1	580.1
50°	466.8	577.7	616.3	560.2	524.1
52.5°	422.9	526.1	555.7	506.6	473.7
55°	374.6	472.5	502.5	458.7	426.2
57.5°	330.3	424.9	448.5	414.0	381.1
60°	288.0	377.4	402.2	369.3	342.1
62.5°	244.6	336.4	359.9	331.1	300.6
65°	205.6	296.6	318.1	291.7	259.6
67.5°	171.0	262.8	282.3	247.0	216.5
70°	138.5	232.8	246.2	206.8	179.2
72.5°	109.7	204.7	209.2	168.2	143.8
75°	85.7	180.8	170.2	136.1	115.0
77.5°	63.8	159.7	137.3	108.1	90.2
80°	46.3	138.5	108.1	82.5	69.5
82.5°	32.1	114.2	82.9	62.2	51.2
85°	18.7	90.2	60.5	45.1	35.3
87.5°	6.9	73.1	44.3	30.5	23.6
90°	0.8	57.7	33.3	21.9	15.4
92.5°	0.4	48.7	27.6	18.3	12.6
95°	0.0	40.2	24.8	16.7	11.8
97.5°	0.0	31.7	22.7	16.2	11.8
100°	0.0	20.7	21.1	15.4	11.4
102.5°	0.0	11.8	19.9	15.4	11.8
105°	0.0	10.2	18.3	15.8	12.2
107.5°	0.0	9.3	16.2	16.7	13.0
110°	0.0	8.9	10.6	17.1	13.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	8.1	4.1	17.5	14.6
115°	0.0	7.7	3.2	12.2	13.8
117.5°	0.0	7.3	3.2	8.5	8.9
120°	0.4	6.5	3.2	2.4	2.4
122.5°	0.4	6.1	2.8	2.4	0.0
125°	0.4	5.7	2.8	2.4	0.0
127.5°	0.4	4.9	2.8	2.8	0.0
130°	0.4	4.5	2.8	2.4	0.0
132.5°	0.4	4.1	2.8	2.8	0.0
135°	0.4	3.2	2.8	2.8	0.0
137.5°	0.4	2.8	2.4	2.8	0.0
140°	0.4	2.4	2.4	2.8	0.0
142.5°	0.4	2.0	2.4	2.8	0.0
145°	0.4	1.6	2.0	2.4	0.0
147.5°	0.4	1.2	2.0	2.4	0.0
150°	0.4	1.2	1.6	2.4	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)