

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: P232617

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232617
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-L850-CD1-RS-U
Description: METALUX SKYBAR 4' WAVESTREAM STRIP
WITH NARROW LENS AND REFLECTOR
Light Source: (196) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3295.0 lumens
Efficiency: N/A
Efficacy: 153.7 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

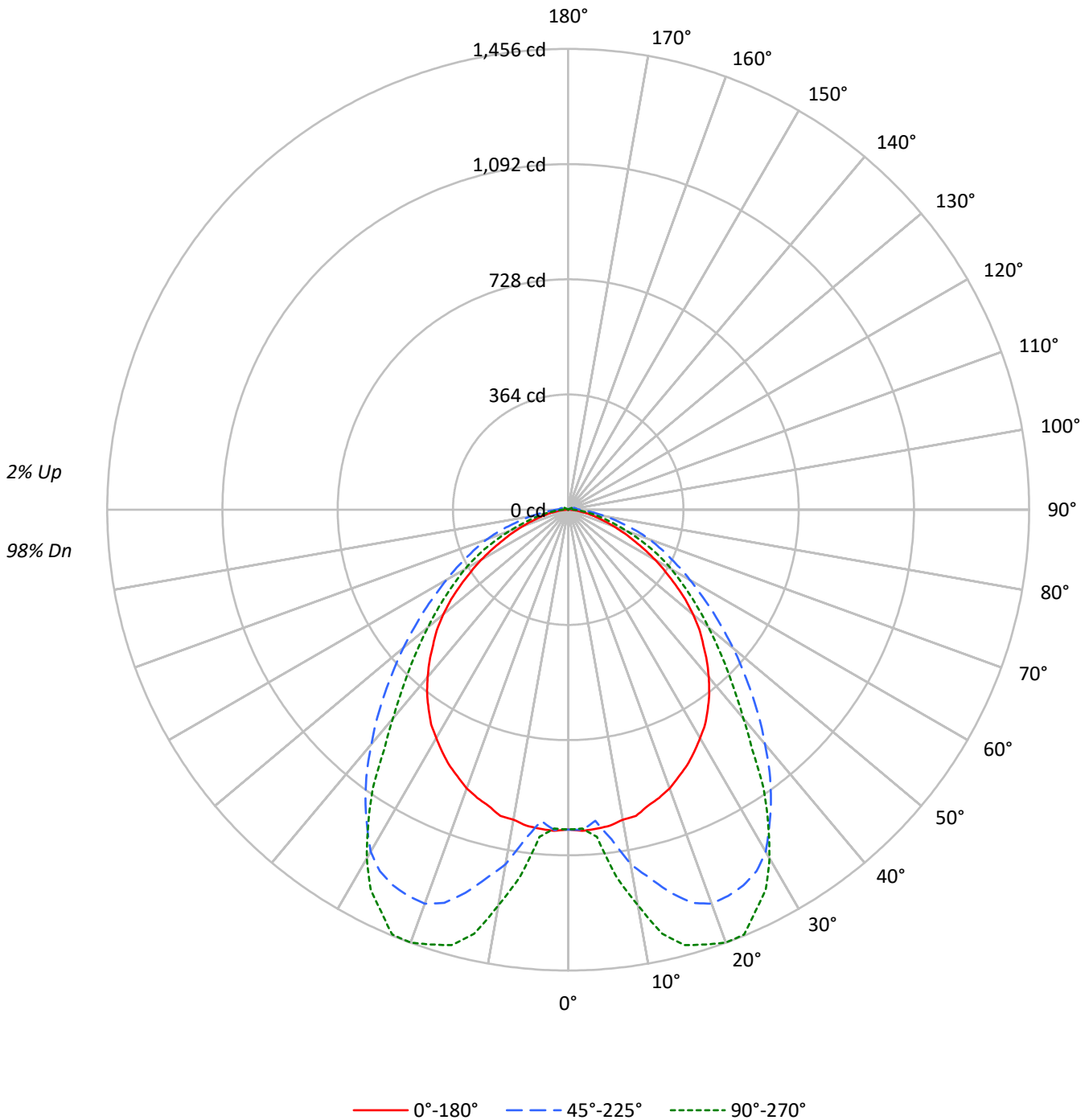
Input Watts (W): 21.44
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	10877	10877	10877
5°	10869	9903	10171
10°	10731	10763	11509
15°	10595	11311	12091
20°	10451	11504	11703
25°	10223	11040	10765
30°	9936	10296	9445
35°	9609	9090	7782
40°	9144	7830	6115
45°	8558	6634	4962
50°	7933	5568	4050
55°	7023	4619	3309
60°	6072	3793	2689
65°	4995	3103	2083
70°	4006	2508	1479
75°	3093	1829	985
80°	2241	1237	623
85°	1388	749	336



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.1	3.1
10°-20°	345.0	10.5
20°-30°	565.8	17.2
30°-40°	639.6	19.4
40°-50°	576.2	17.5
50°-60°	454.0	13.8
60°-70°	312.3	9.5
70°-80°	174.1	5.3
80°-90°	70.7	2.1
90°-100°	26.9	0.8
100°-110°	15.0	0.5
110°-120°	8.2	0.2
120°-130°	2.8	0.1
130°-140°	1.9	0.1
140°-150°	1.1	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1011.9	30.7
0°-40°	1651.5	50.1
0°-60°	2681.8	81.4
0°-90°	3238.9	98.3
90°-120°	50.1	1.5
90°-150°	56.0	1.7
90°-180°	56.0	1.7
0°-180°	3295.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1010	1010	1010	1010	1010	
5°	1012	1016	987	1031	1037	96
15°	969	1043	1253	1399	1424	274
25°	890	1076	1310	1407	1400	409
35°	769	969	1116	1100	1076	480
45°	603	753	818	756	706	466
55°	413	521	554	506	470	371
65°	227	327	351	322	286	227
75°	95	199	188	150	127	102
85°	21	100	67	50	39	23
90°	1	64	37	24	17	1
95°	0	44	27	18	13	0
105°	0	11	20	18	13	0
115°	0	8	4	13	15	0
125°	0	6	3	3	0	0
135°	0	4	3	3	0	0
145°	0	2	2	3	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°	1010.5	1010.5	1010.5	1010.5	1010.5
2.5°	1015.5	1013.7	1012.8	1021.3	1007.9
5°	1012.3	1016.4	986.8	1030.7	1037.4
7.5°	1007.0	995.3	1050.4	1147.2	1170.5
10°	994.4	981.9	1136.9	1244.0	1269.6
12.5°	990.8	1007.4	1192.5	1336.3	1372.2
15°	969.3	1043.3	1253.4	1398.6	1424.2
17.5°	954.5	1068.8	1302.3	1422.4	1440.3
20°	936.6	1076.4	1324.7	1435.8	1455.5
22.5°	912.9	1084.0	1320.7	1436.3	1452.4
25°	890.0	1076.0	1309.5	1406.7	1399.5
27.5°	862.2	1058.0	1287.9	1361.9	1351.6
30°	833.1	1038.8	1247.6	1289.3	1271.8
32.5°	804.9	1010.1	1183.1	1195.6	1175.5
35°	768.6	969.3	1116.3	1100.2	1076.0
37.5°	731.8	921.4	1045.1	1002.5	954.1
40°	690.6	867.1	967.1	917.3	861.3
42.5°	648.0	809.3	893.1	832.6	778.9
45°	603.2	753.3	817.8	755.6	706.3
47.5°	562.9	696.4	747.0	683.0	639.9
50°	514.9	637.2	679.8	618.0	578.1
52.5°	466.5	580.3	613.0	558.8	522.5
55°	413.2	521.2	554.3	505.9	470.1
57.5°	364.3	468.7	494.7	456.7	420.4
60°	317.7	416.3	443.7	407.4	377.3
62.5°	269.8	371.1	397.0	365.2	331.6
65°	226.8	327.1	350.9	321.8	286.4
67.5°	188.7	289.9	311.5	272.5	238.9
70°	152.8	256.8	271.6	228.1	197.6
72.5°	121.0	225.9	230.8	185.5	158.6
75°	94.6	199.4	187.8	150.1	126.8
77.5°	70.4	176.1	151.5	119.2	99.5
80°	51.1	152.8	119.2	91.0	76.6
82.5°	35.4	125.9	91.4	68.6	56.5
85°	20.6	99.5	66.8	49.7	39.0
87.5°	7.6	80.7	48.8	33.6	26.0
90°	0.9	63.6	36.7	24.2	17.0
92.5°	0.4	53.8	30.5	20.2	13.9
95°	0.0	44.4	27.3	18.4	13.0
97.5°	0.0	35.0	25.1	17.9	13.0
100°	0.0	22.9	23.3	17.0	12.5
102.5°	0.0	13.0	22.0	17.0	13.0
105°	0.0	11.2	20.2	17.5	13.4
107.5°	0.0	10.3	17.9	18.4	14.3
110°	0.0	9.9	11.7	18.8	15.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	9.0	4.5	19.3	16.1
115°	0.0	8.5	3.6	13.4	15.2
117.5°	0.0	8.1	3.6	9.4	9.9
120°	0.4	7.2	3.6	2.7	2.7
122.5°	0.4	6.7	3.1	2.7	0.0
125°	0.4	6.3	3.1	2.7	0.0
127.5°	0.4	5.4	3.1	3.1	0.0
130°	0.4	4.9	3.1	2.7	0.0
132.5°	0.4	4.5	3.1	3.1	0.0
135°	0.4	3.6	3.1	3.1	0.0
137.5°	0.4	3.1	2.7	3.1	0.0
140°	0.4	2.7	2.7	3.1	0.0
142.5°	0.4	2.2	2.7	3.1	0.0
145°	0.4	1.8	2.2	2.7	0.0
147.5°	0.4	1.3	2.2	2.7	0.0
150°	0.4	1.3	1.8	2.7	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)