

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: P232629

Luminaire Tested: **4SKB1-LD5-7-N-UNV-L850-CD1-RS-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232629
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-LD5-7-N-UNV-L850-CD1-RS-U
Description: METALUX SKYBAR 4' WAVESTREAM STRIP
WITH NARROW LENS AND REFLECTOR
Light Source: (238) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7585.0 lumens
Efficiency: N/A
Efficacy: 143.9 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

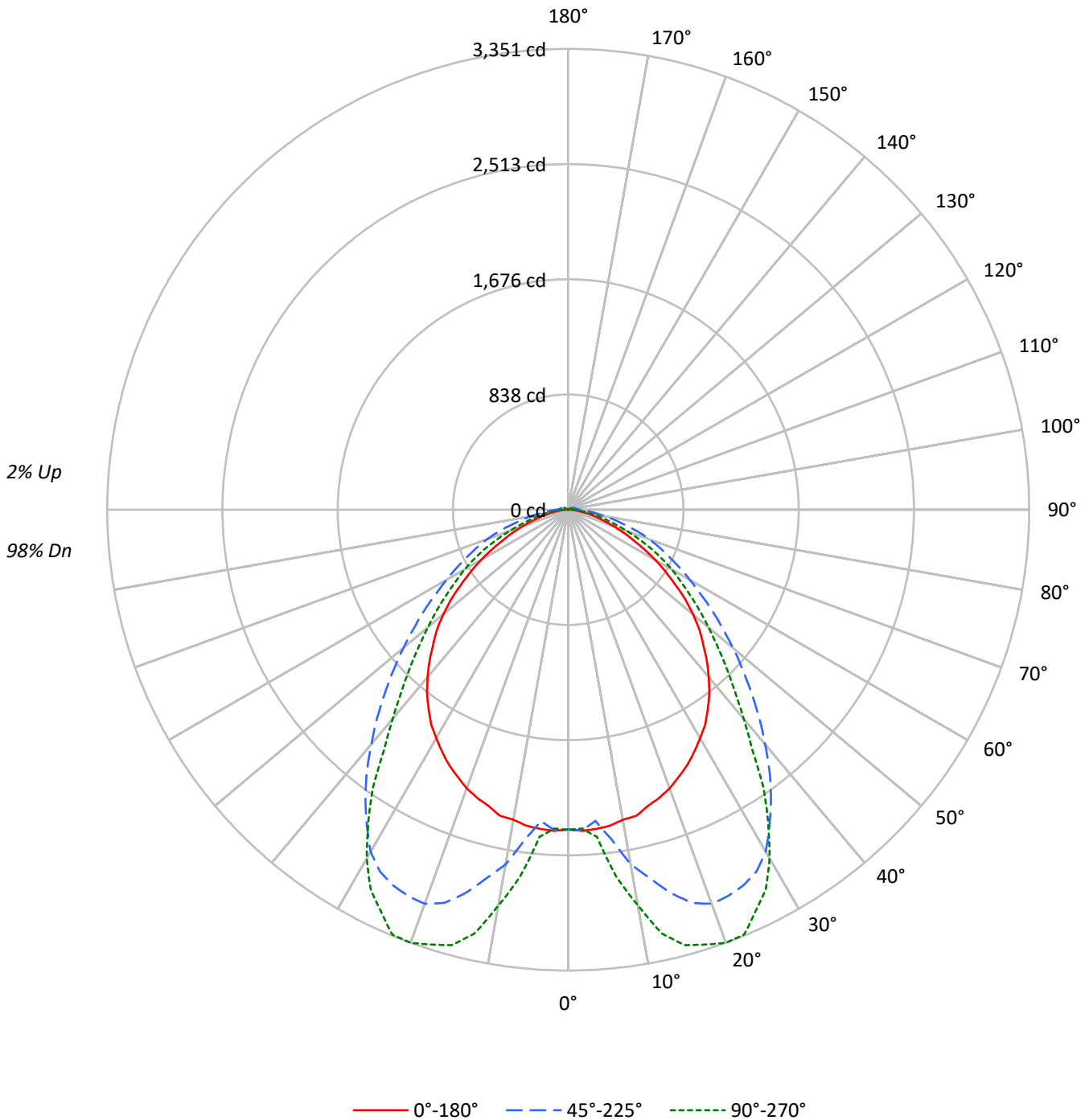
Input Watts (W): 52.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	25039	25039	25039
5°	25020	22796	23414
10°	24702	24776	26493
15°	24388	26038	27832
20°	24058	26481	26940
25°	23532	25413	24781
30°	22872	23702	21743
35°	22119	20924	17913
40°	21049	18024	14078
45°	19700	15272	11422
50°	18262	12817	9323
55°	16165	10635	7616
60°	13980	8731	6190
65°	11497	7144	4794
70°	9224	5772	3404
75°	7117	4208	2267
80°	5157	2849	1436
85°	3200	1723	773



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.8	3.1
10°-20°	794.3	10.5
20°-30°	1302.4	17.2
30°-40°	1472.3	19.4
40°-50°	1326.5	17.5
50°-60°	1045.2	13.8
60°-70°	718.9	9.5
70°-80°	400.8	5.3
80°-90°	162.7	2.1
90°-100°	61.9	0.8
100°-110°	34.5	0.5
110°-120°	18.9	0.2
120°-130°	6.5	0.1
130°-140°	4.5	0.1
140°-150°	2.7	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2329.5	30.7
0°-40°	3801.8	50.1
0°-60°	6173.5	81.4
0°-90°	7455.9	98.3
90°-120°	115.3	1.5
90°-150°	128.9	1.7
90°-180°	129.0	1.7
0°-180°	7585.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2326	2326	2326	2326	2326	
5°	2330	2340	2272	2373	2388	221
15°	2231	2402	2885	3220	3278	631
25°	2049	2477	3014	3238	3222	942
35°	1769	2231	2570	2533	2477	1105
45°	1388	1734	1883	1739	1626	1073
55°	951	1200	1276	1165	1082	853
65°	522	753	808	741	659	523
75°	218	459	432	346	292	235
85°	48	229	154	114	90	53
90°	2	146	85	56	39	3
95°	0	102	63	42	30	0
105°	0	26	46	40	31	0
115°	0	20	8	31	35	0
125°	1	14	7	6	0	1
135°	1	8	7	7	0	1
145°	1	4	5	6	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°	2326.2	2326.2	2326.2	2326.2	2326.2
2.5°	2337.6	2333.5	2331.4	2351.0	2320.1
5°	2330.4	2339.7	2271.6	2372.7	2388.1
7.5°	2318.0	2291.2	2418.1	2640.9	2694.5
10°	2289.1	2260.2	2617.2	2863.7	2922.5
12.5°	2280.9	2319.0	2745.1	3076.2	3158.7
15°	2231.3	2401.6	2885.4	3219.6	3278.4
17.5°	2197.3	2460.4	2997.8	3274.3	3315.5
20°	2156.0	2477.9	3049.4	3305.2	3350.6
22.5°	2101.4	2495.4	3040.1	3306.3	3343.4
25°	2048.7	2476.9	3014.3	3238.2	3221.7
27.5°	1984.8	2435.6	2964.8	3135.0	3111.3
30°	1917.7	2391.2	2872.0	2967.9	2927.7
32.5°	1852.7	2325.2	2723.4	2752.3	2705.9
35°	1769.2	2231.3	2569.7	2532.6	2476.9
37.5°	1684.6	2121.0	2405.7	2307.7	2196.3
40°	1589.7	1996.1	2226.2	2111.7	1982.7
42.5°	1491.7	1863.1	2056.0	1916.7	1792.9
45°	1388.5	1734.1	1882.7	1739.3	1625.8
47.5°	1295.7	1603.1	1719.7	1572.2	1473.1
50°	1185.3	1466.9	1564.9	1422.6	1330.8
52.5°	1073.9	1335.9	1411.2	1286.4	1202.8
55°	951.1	1199.7	1276.1	1164.7	1082.1
57.5°	838.7	1079.0	1138.9	1051.2	967.6
60°	731.4	958.4	1021.3	937.7	868.6
62.5°	621.0	854.2	914.0	840.8	763.4
65°	522.0	753.1	807.7	740.7	659.2
67.5°	434.3	667.4	717.0	627.2	549.8
70°	351.8	591.1	625.1	525.1	454.9
72.5°	278.5	519.9	531.3	427.1	365.2
75°	217.7	459.1	432.2	345.6	291.9
77.5°	162.0	405.4	348.7	274.4	229.0
80°	117.6	351.8	274.4	209.4	176.4
82.5°	81.5	289.9	210.4	157.8	130.0
85°	47.5	229.0	153.7	114.5	89.7
87.5°	17.5	185.7	112.4	77.4	59.8
90°	2.1	146.5	84.6	55.7	39.2
92.5°	1.0	123.8	70.1	46.4	32.0
95°	0.0	102.1	62.9	42.3	29.9
97.5°	0.0	80.5	57.8	41.3	29.9
100°	0.0	52.6	53.6	39.2	28.9
102.5°	0.0	29.9	50.5	39.2	29.9
105°	0.0	25.8	46.4	40.2	30.9
107.5°	0.0	23.7	41.3	42.3	33.0
110°	0.0	22.7	26.8	43.3	35.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	20.6	10.3	44.4	37.1
115°	0.0	19.6	8.3	30.9	35.1
117.5°	0.0	18.6	8.3	21.7	22.7
120°	1.0	16.5	8.3	6.2	6.2
122.5°	1.0	15.5	7.2	6.2	0.0
125°	1.0	14.4	7.2	6.2	0.0
127.5°	1.0	12.4	7.2	7.2	0.0
130°	1.0	11.3	7.2	6.2	0.0
132.5°	1.0	10.3	7.2	7.2	0.0
135°	1.0	8.3	7.2	7.2	0.0
137.5°	1.0	7.2	6.2	7.2	0.0
140°	1.0	6.2	6.2	7.2	0.0
142.5°	1.0	5.2	6.2	7.2	0.0
145°	1.0	4.1	5.2	6.2	0.0
147.5°	1.0	3.1	5.2	6.2	0.0
150°	1.0	3.1	4.1	6.2	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)