

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: P232631

Luminaire Tested: **4SKB1-LD5-8-N-UNV-L840-CD1-RS-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232631
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-LD5-8-N-UNV-L840-CD1-RS-U
Description: METALUX SKYBAR 4' WAVESTREAM STRIP
WITH NARROW LENS AND REFLECTOR
Light Source: (238) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8551.0 lumens
Efficiency: N/A
Efficacy: 131.1 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

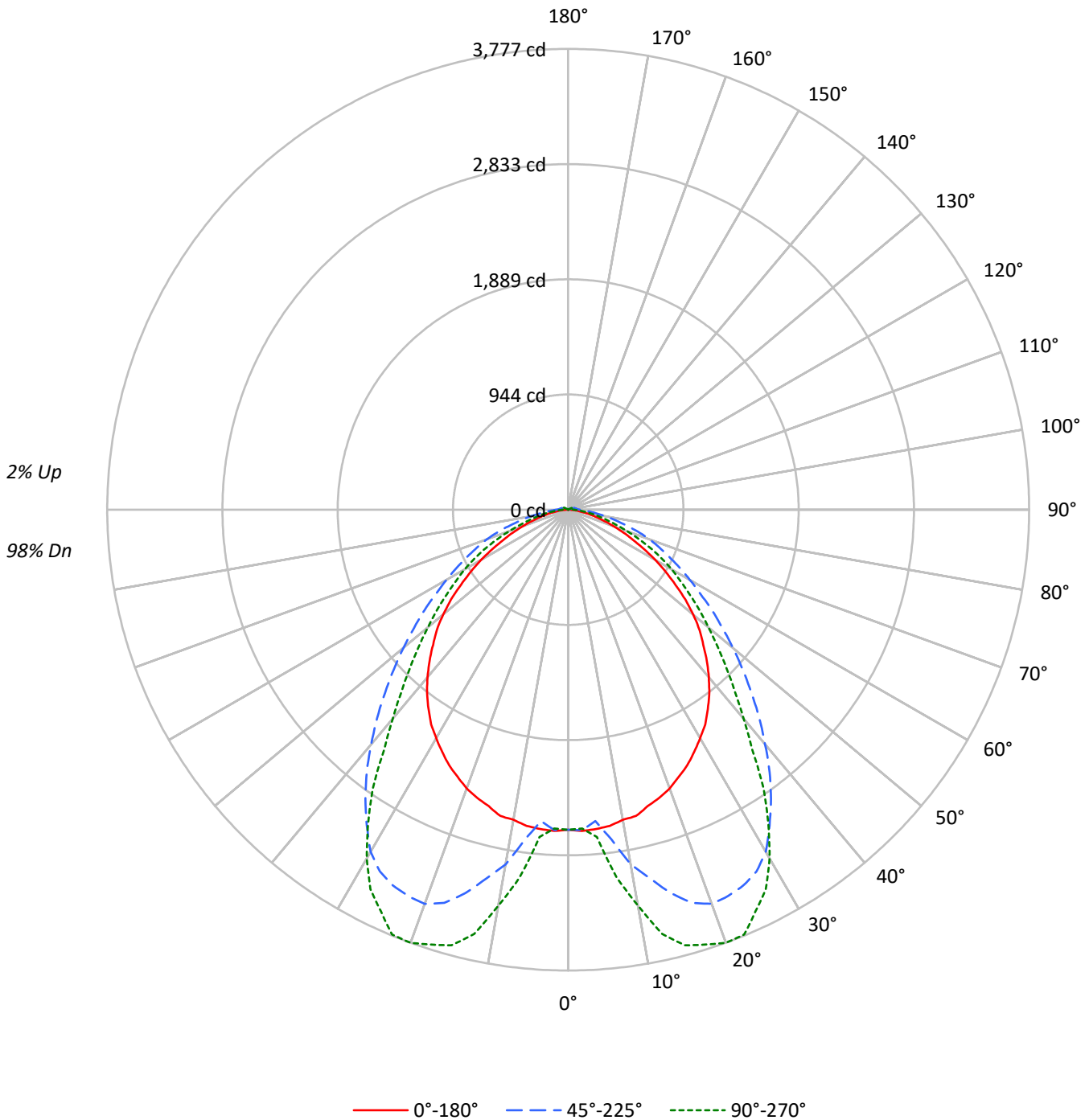
Input Watts (W): 65.23
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	28228	28228	28228
5°	28207	25700	26396
10°	27848	27932	29867
15°	27495	29354	31377
20°	27122	29854	30371
25°	26529	28649	27937
30°	25786	26720	24511
35°	24935	23589	20194
40°	23729	20319	15870
45°	22210	17217	12877
50°	20588	14449	10509
55°	18225	11989	8587
60°	15761	9842	6978
65°	12962	8054	5404
70°	10398	6508	3838
75°	8023	4745	2556
80°	5815	3212	1619
85°	3604	1942	872



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.4	3.1
10°-20°	895.4	10.5
20°-30°	1468.3	17.2
30°-40°	1659.8	19.4
40°-50°	1495.5	17.5
50°-60°	1178.3	13.8
60°-70°	810.4	9.5
70°-80°	451.9	5.3
80°-90°	183.4	2.1
90°-100°	69.8	0.8
100°-110°	38.9	0.5
110°-120°	21.3	0.2
120°-130°	7.3	0.1
130°-140°	5.0	0.1
140°-150°	3.0	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2626.1	30.7
0°-40°	4285.9	50.1
0°-60°	6959.7	81.4
0°-90°	8405.4	98.3
90°-120°	130.0	1.5
90°-150°	145.3	1.7
90°-180°	146.0	1.7
0°-180°	8551.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2622	2622	2622	2622	2622	
5°	2627	2638	2561	2675	2692	249
15°	2516	2707	3253	3630	3696	711
25°	2310	2792	3398	3651	3632	1062
35°	1994	2516	2897	2855	2792	1245
45°	1565	1955	2122	1961	1833	1210
55°	1072	1352	1439	1313	1220	962
65°	588	849	911	835	743	590
75°	245	518	487	390	329	265
85°	54	258	173	129	101	60
90°	2	165	95	63	44	4
95°	0	115	71	48	34	0
105°	0	29	52	45	35	0
115°	0	22	9	35	40	0
125°	1	16	8	7	0	1
135°	1	9	8	8	0	1
145°	1	5	6	7	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°	2622.5	2622.5	2622.5	2622.5	2622.5
2.5°	2635.3	2630.7	2628.3	2650.4	2615.5
5°	2627.2	2637.6	2560.9	2674.8	2692.3
7.5°	2613.2	2583.0	2726.0	2977.2	3037.7
10°	2580.6	2548.1	2950.5	3228.4	3294.7
12.5°	2571.3	2614.4	3094.7	3468.0	3561.0
15°	2515.5	2707.4	3252.8	3629.6	3695.9
17.5°	2477.1	2773.7	3379.6	3691.3	3737.8
20°	2430.6	2793.5	3437.8	3726.2	3777.3
22.5°	2369.0	2813.2	3427.3	3727.3	3769.2
25°	2309.7	2792.3	3398.2	3650.6	3632.0
27.5°	2237.6	2745.8	3342.4	3534.3	3507.5
30°	2162.0	2695.8	3237.7	3345.9	3300.5
32.5°	2088.7	2621.3	3070.3	3102.8	3050.5
35°	1994.5	2515.5	2897.0	2855.1	2792.3
37.5°	1899.1	2391.1	2712.1	2601.6	2476.0
40°	1792.1	2250.4	2509.7	2380.6	2235.2
42.5°	1681.7	2100.3	2317.8	2160.8	2021.3
45°	1565.4	1955.0	2122.4	1960.8	1832.9
47.5°	1460.7	1807.3	1938.7	1772.4	1660.7
50°	1336.3	1653.8	1764.2	1603.7	1500.2
52.5°	1210.7	1506.1	1591.0	1450.2	1356.0
55°	1072.3	1352.5	1438.6	1313.0	1220.0
57.5°	945.5	1216.5	1283.9	1185.1	1090.9
60°	824.6	1080.4	1151.3	1057.1	979.2
62.5°	700.1	962.9	1030.4	947.8	860.6
65°	588.5	849.0	910.6	835.0	743.1
67.5°	489.6	752.4	808.3	707.1	619.9
70°	396.6	666.4	704.8	592.0	512.9
72.5°	314.0	586.1	598.9	481.5	411.7
75°	245.4	517.5	487.3	389.6	329.1
77.5°	182.6	457.0	393.1	309.4	258.2
80°	132.6	396.6	309.4	236.1	198.9
82.5°	91.9	326.8	237.2	177.9	146.5
85°	53.5	258.2	173.3	129.1	101.2
87.5°	19.8	209.3	126.8	87.2	67.5
90°	2.3	165.1	95.4	62.8	44.2
92.5°	1.2	139.6	79.1	52.3	36.1
95°	0.0	115.1	70.9	47.7	33.7
97.5°	0.0	90.7	65.1	46.5	33.7
100°	0.0	59.3	60.5	44.2	32.6
102.5°	0.0	33.7	57.0	44.2	33.7
105°	0.0	29.1	52.3	45.4	34.9
107.5°	0.0	26.7	46.5	47.7	37.2
110°	0.0	25.6	30.2	48.8	39.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	23.3	11.6	50.0	41.9
115°	0.0	22.1	9.3	34.9	39.5
117.5°	0.0	20.9	9.3	24.4	25.6
120°	1.2	18.6	9.3	7.0	7.0
122.5°	1.2	17.4	8.1	7.0	0.0
125°	1.2	16.3	8.1	7.0	0.0
127.5°	1.2	14.0	8.1	8.1	0.0
130°	1.2	12.8	8.1	7.0	0.0
132.5°	1.2	11.6	8.1	8.1	0.0
135°	1.2	9.3	8.1	8.1	0.0
137.5°	1.2	8.1	7.0	8.1	0.0
140°	1.2	7.0	7.0	8.1	0.0
142.5°	1.2	5.8	7.0	8.1	0.0
145°	1.2	4.7	5.8	7.0	0.0
147.5°	1.2	3.5	5.8	7.0	0.0
150°	1.2	3.5	4.7	7.0	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)