

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: P232550

Luminaire Tested: **8SKB1-LD5-10-N-UNV-L840-CD1-RS-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232550
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: 8SKB1-LD5-10-N-UNV-L840-CD1-RS-U
Description: METALUX SKYBAR 8' WAVESTREAM STRIP
WITH NARROW LENS AND REFLECTOR
Light Source: (392) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10703.0 lumens
Efficiency: N/A
Efficacy: 138.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.5 / 1.49
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.29')
CIE Type: Direct

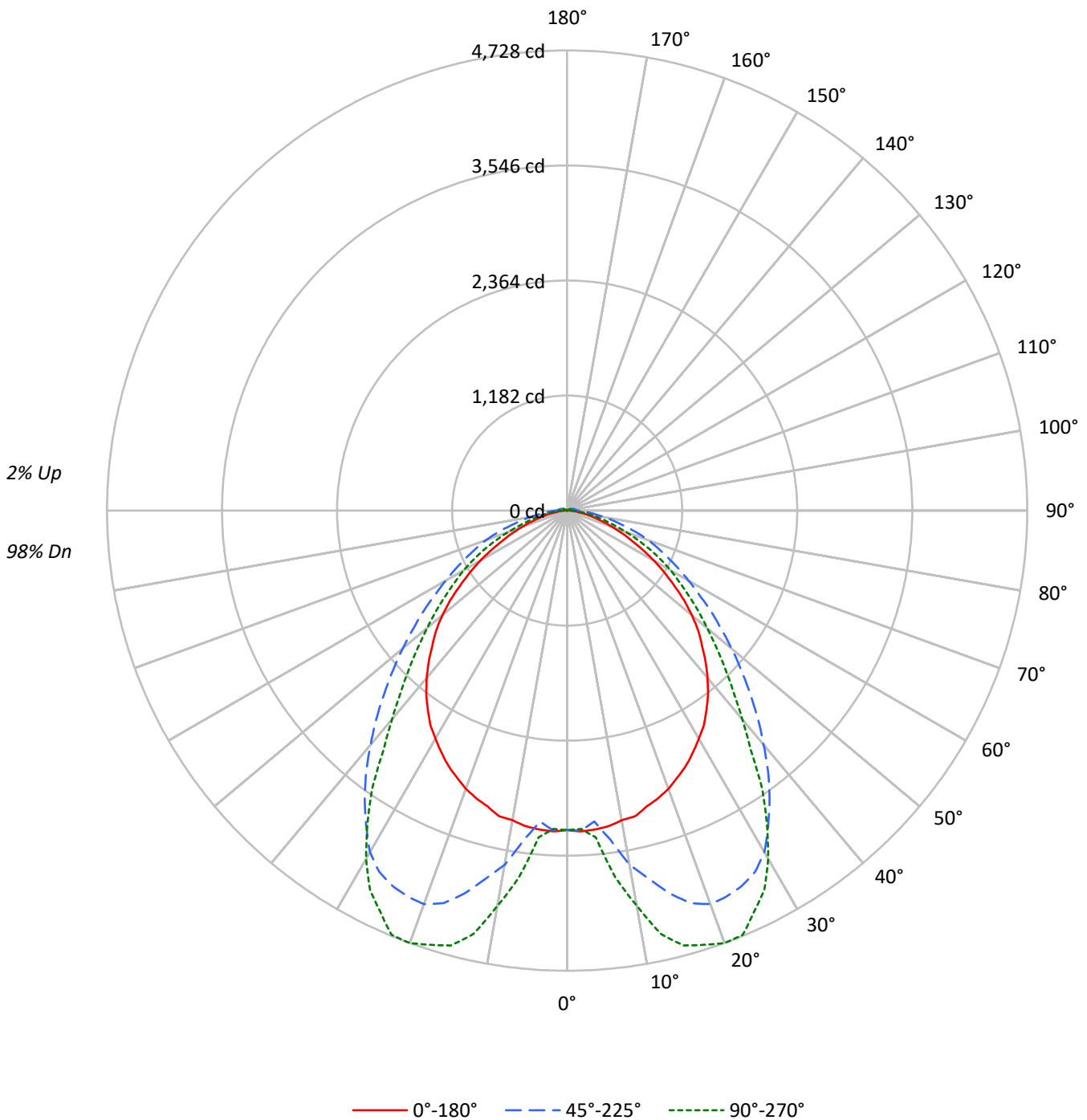
Input Watts (W): 77.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	17666	17666	17666
5°	17709	16118	16520
10°	17540	17550	18692
15°	17374	18474	19637
20°	17196	18817	19007
25°	16880	18084	17484
30°	16470	16889	15340
35°	15994	14930	12638
40°	15292	12877	9933
45°	14388	10925	8059
50°	13421	9181	6577
55°	11970	7628	5374
60°	10450	6271	4367
65°	8700	5139	3383
70°	7100	4159	2402
75°	5621	3038	1600
80°	4261	2060	1013
85°	2920	1249	545



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.4	3.1
10°-20°	1120.8	10.5
20°-30°	1837.8	17.2
30°-40°	2077.5	19.4
40°-50°	1871.8	17.5
50°-60°	1474.8	13.8
60°-70°	1014.4	9.5
70°-80°	565.6	5.3
80°-90°	229.6	2.1
90°-100°	87.4	0.8
100°-110°	48.7	0.5
110°-120°	26.6	0.2
120°-130°	9.1	0.1
130°-140°	6.3	0.1
140°-150°	3.7	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3287.0	30.7
0°-40°	5364.5	50.1
0°-60°	8711.2	81.4
0°-90°	10520.7	98.3
90°-120°	162.7	1.5
90°-150°	181.9	1.7
90°-180°	182.0	1.7
0°-180°	10703.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3282	3282	3282	3282	3282	
5°	3288	3301	3205	3348	3370	312
15°	3149	3389	4072	4543	4626	890
25°	2891	3495	4253	4569	4546	1330
35°	2496	3149	3626	3574	3495	1559
45°	1959	2447	2657	2454	2294	1514
55°	1342	1693	1801	1643	1527	1204
65°	737	1063	1140	1045	930	739
75°	307	648	610	488	412	332
85°	67	323	217	162	127	75
90°	3	207	119	79	55	4
95°	0	144	89	60	42	0
105°	0	36	66	57	44	0
115°	0	28	12	44	50	0
125°	2	20	10	9	0	1
135°	2	12	10	10	0	1
145°	2	6	7	9	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°	3282.5	3282.5	3282.5	3282.5	3282.5
2.5°	3298.5	3292.7	3289.8	3317.4	3273.8
5°	3288.3	3301.4	3205.4	3348.0	3369.9
7.5°	3270.9	3233.0	3412.1	3726.5	3802.2
10°	3230.1	3189.3	3693.0	4040.9	4123.9
12.5°	3218.5	3272.3	3873.5	4340.8	4457.2
15°	3148.6	3388.8	4071.5	4543.1	4626.1
17.5°	3100.6	3471.7	4230.1	4620.3	4678.5
20°	3042.3	3496.5	4302.9	4663.9	4728.0
22.5°	2965.2	3521.2	4289.8	4665.4	4717.8
25°	2890.9	3495.0	4253.4	4569.3	4546.0
27.5°	2800.7	3436.8	4183.6	4423.7	4390.3
30°	2706.1	3374.2	4052.6	4187.9	4131.2
32.5°	2614.4	3281.1	3842.9	3883.7	3818.2
35°	2496.5	3148.6	3626.0	3573.6	3495.0
37.5°	2377.1	2992.8	3394.6	3256.3	3099.1
40°	2243.2	2816.7	3141.3	2979.7	2797.8
42.5°	2104.9	2628.9	2901.1	2704.6	2529.9
45°	1959.3	2447.0	2656.6	2454.2	2294.1
47.5°	1828.3	2262.1	2426.6	2218.4	2078.7
50°	1672.6	2069.9	2208.2	2007.4	1877.8
52.5°	1515.3	1885.1	1991.3	1815.2	1697.3
55°	1342.1	1692.9	1800.6	1643.4	1527.0
57.5°	1183.5	1522.6	1607.0	1483.3	1365.4
60°	1032.1	1352.3	1441.1	1323.2	1225.7
62.5°	876.3	1205.3	1289.7	1186.4	1077.2
65°	736.6	1062.6	1139.8	1045.2	930.2
67.5°	612.8	941.8	1011.7	885.0	775.9
70°	496.4	834.1	882.1	740.9	641.9
72.5°	393.0	733.7	749.7	602.6	515.3
75°	307.1	647.8	609.9	487.6	412.0
77.5°	228.5	572.1	492.0	387.2	323.2
80°	165.9	496.4	387.2	295.5	248.9
82.5°	115.0	409.0	297.0	222.7	183.4
85°	67.0	323.2	216.9	161.6	126.6
87.5°	24.7	262.0	158.7	109.2	84.4
90°	2.9	206.7	119.4	78.6	55.3
92.5°	1.5	174.7	99.0	65.5	45.1
95°	0.0	144.1	88.8	59.7	42.2
97.5°	0.0	113.5	81.5	58.2	42.2
100°	0.0	74.2	75.7	55.3	40.8
102.5°	0.0	42.2	71.3	55.3	42.2
105°	0.0	36.4	65.5	56.8	43.7
107.5°	0.0	33.5	58.2	59.7	46.6
110°	0.0	32.0	37.8	61.1	49.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	29.1	14.6	62.6	52.4
115°	0.0	27.7	11.6	43.7	49.5
117.5°	0.0	26.2	11.6	30.6	32.0
120°	1.5	23.3	11.6	8.7	8.7
122.5°	1.5	21.8	10.2	8.7	0.0
125°	1.5	20.4	10.2	8.7	0.0
127.5°	1.5	17.5	10.2	10.2	0.0
130°	1.5	16.0	10.2	8.7	0.0
132.5°	1.5	14.6	10.2	10.2	0.0
135°	1.5	11.6	10.2	10.2	0.0
137.5°	1.5	10.2	8.7	10.2	0.0
140°	1.5	8.7	8.7	10.2	0.0
142.5°	1.5	7.3	8.7	10.2	0.0
145°	1.5	5.8	7.3	8.7	0.0
147.5°	1.5	4.4	7.3	8.7	0.0
150°	1.5	4.4	5.8	8.7	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)