

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: P232535

Luminaire Tested: **8SKB1-LD5-12-W-UNV-L840-CD2-RS-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232535
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1709-317-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SKB1-LD5-12-W-UNV-L840-CD2-RS-U
Description: METALUX SKYBAR 8' WAVESTREAM STRIP
WITH WIDE LENS AND REFLECTOR
Light Source: (392) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11739.0 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.47 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.29')
CIE Type: Direct

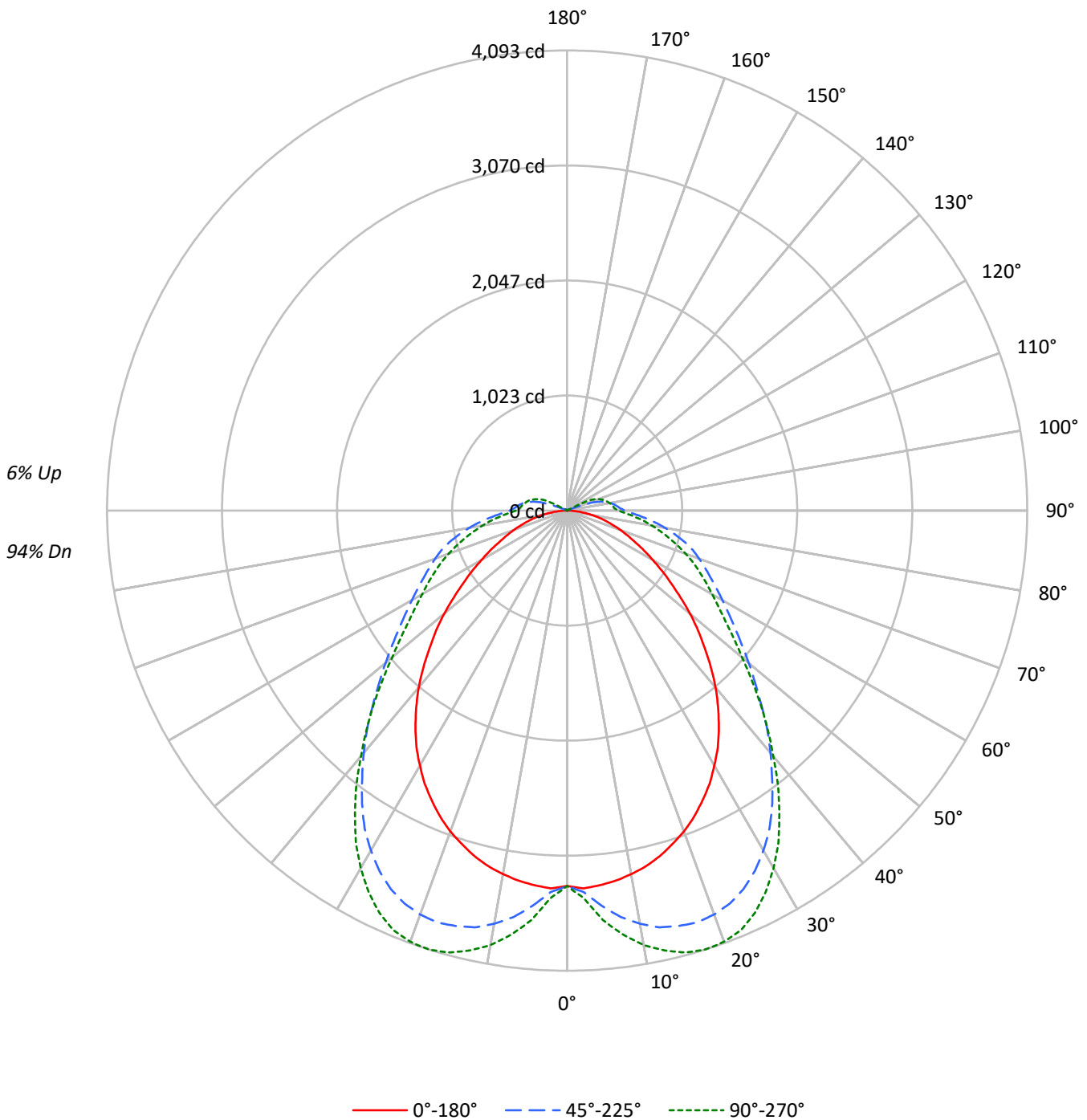
Input Watts (W): 94.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94
1	106	101	96	91	103	98	93	89	92	89	85	87	84	82	83	80	78	76
2	96	87	80	74	93	85	78	73	80	75	70	76	72	68	72	69	65	63
3	88	77	68	62	85	75	67	61	71	64	59	67	62	57	64	59	55	53
4	80	68	59	52	78	66	58	52	63	56	50	60	54	49	57	52	48	45
5	74	61	52	45	71	59	51	45	57	49	44	54	48	43	52	46	42	39
6	68	55	46	39	66	54	45	39	51	44	38	49	42	37	47	41	37	34
7	63	50	41	35	61	49	41	35	47	39	34	45	38	33	43	37	33	31
8	59	46	37	31	57	45	37	31	43	36	30	41	35	30	39	34	29	27
9	55	42	34	28	54	41	33	28	39	32	27	38	32	27	37	31	27	25
10	52	39	31	26	50	38	30	25	37	30	25	35	29	25	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17973	17973	17973
5°	18012	17746	17924
10°	17831	17731	17787
15°	17562	17357	17272
20°	17173	16720	16407
25°	16622	15789	15187
30°	15938	14548	13635
35°	15070	13097	11899
40°	14006	11534	10131
45°	12709	10039	8538
50°	11456	8766	7111
55°	10062	7715	6054
60°	8902	6940	5304
65°	7897	6343	4730
70°	7197	5886	4196
75°	6469	5402	3631
80°	5678	4697	3103
85°	4176	3900	2565



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.2	2.9
10°-20°	1061.2	9.0
20°-30°	1652.7	14.1
30°-40°	1900.2	16.2
40°-50°	1780.2	15.2
50°-60°	1497.4	12.8
60°-70°	1226.5	10.4
70°-80°	955.0	8.1
80°-90°	615.5	5.2
90°-100°	378.8	3.2
100°-110°	235.5	2.0
110°-120°	77.4	0.7
120°-130°	10.5	0.1
130°-140°	4.9	0.0
140°-150°	1.7	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3055.1	26.0
0°-40°	4955.3	42.2
0°-60°	8232.9	70.1
0°-90°	11029.9	94.0
90°-120°	691.8	5.9
90°-150°	709.0	6.0
90°-180°	709.0	6.0
0°-180°	11739.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3339	3339	3339	3339	3339	
5°	3345	3414	3529	3644	3656	317
15°	3183	3540	3825	4039	4069	896
25°	2847	3366	3714	3928	3949	1310
35°	2352	2874	3181	3312	3291	1467
45°	1731	2213	2441	2483	2431	1338
55°	1128	1616	1821	1790	1720	1017
65°	669	1193	1407	1348	1301	671
75°	353	909	1085	980	935	378
85°	96	599	677	618	596	104
90°	5	416	510	470	456	7
95°	0	315	446	425	411	0
105°	0	64	306	355	350	0
115°	0	44	30	143	218	0
125°	0	26	21	0	0	0
135°	0	12	12	0	0	0
145°	2	4	5	0	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°	3339.4	3339.4	3339.4	3339.4	3339.4
2.5°	3363.8	3370.7	3396.9	3464.8	3450.8
5°	3344.6	3414.3	3529.2	3644.1	3656.3
7.5°	3320.3	3473.5	3645.8	3792.1	3804.3
10°	3283.7	3513.5	3731.1	3908.7	3924.4
12.5°	3240.2	3539.6	3797.3	3992.3	4008.0
15°	3182.7	3539.6	3825.2	4039.3	4068.9
17.5°	3111.3	3525.7	3840.8	4065.4	4093.3
20°	3038.2	3492.6	3823.4	4055.0	4081.1
22.5°	2949.4	3440.4	3781.6	4008.0	4039.3
25°	2846.7	3365.5	3713.7	3927.9	3948.8
27.5°	2742.2	3271.5	3614.5	3809.5	3825.2
30°	2618.6	3154.8	3490.9	3665.0	3672.0
32.5°	2495.0	3031.2	3351.6	3503.1	3497.8
35°	2352.2	2874.5	3181.0	3311.5	3290.7
37.5°	2204.2	2723.1	2994.7	3100.9	3080.0
40°	2054.5	2555.9	2813.6	2886.7	2853.6
42.5°	1892.6	2381.8	2632.5	2679.5	2639.5
45°	1730.6	2212.9	2441.0	2482.8	2430.6
47.5°	1580.9	2045.8	2266.9	2273.9	2223.4
50°	1427.7	1894.3	2108.5	2101.5	2030.1
52.5°	1271.0	1748.1	1958.7	1941.3	1868.2
55°	1128.2	1615.7	1821.2	1789.8	1720.2
57.5°	1002.9	1493.9	1702.8	1654.0	1596.6
60°	879.2	1382.4	1594.8	1540.9	1488.6
62.5°	773.0	1278.0	1495.6	1439.9	1394.6
65°	668.6	1192.6	1406.8	1347.6	1300.6
67.5°	581.5	1107.3	1326.7	1260.5	1215.3
70°	503.2	1035.9	1248.4	1171.8	1121.3
72.5°	426.6	973.3	1173.5	1070.8	1027.2
75°	353.4	908.8	1084.7	980.2	935.0
77.5°	290.8	849.7	983.7	884.5	847.9
80°	221.1	788.7	882.7	793.9	762.6
82.5°	156.7	701.7	783.5	703.4	680.8
85°	95.8	598.9	677.3	618.1	595.5
87.5°	41.8	494.5	583.3	534.5	518.8
90°	5.2	416.1	510.1	470.1	456.2
92.5°	1.7	365.6	471.8	438.8	423.1
95°	0.0	315.1	445.7	424.8	410.9
97.5°	0.0	255.9	421.3	412.6	398.7
100°	0.0	165.4	390.0	395.2	383.0
102.5°	0.0	69.6	353.4	376.1	365.6
105°	0.0	64.4	306.4	355.2	350.0
107.5°	0.0	59.2	242.0	327.3	323.8
110°	0.0	54.0	125.4	294.2	296.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	48.8	31.3	250.7	261.2
115°	0.0	43.5	29.6	142.8	217.6
117.5°	0.0	40.0	26.1	1.7	74.9
120°	0.0	34.8	24.4	1.7	0.0
122.5°	0.0	29.6	22.6	0.0	0.0
125°	0.0	26.1	20.9	0.0	0.0
127.5°	0.0	22.6	17.4	0.0	0.0
130°	0.0	19.2	15.7	0.0	0.0
132.5°	0.0	15.7	13.9	0.0	0.0
135°	0.0	12.2	12.2	0.0	0.0
137.5°	0.0	10.4	10.4	0.0	0.0
140°	0.0	7.0	8.7	0.0	0.0
142.5°	1.7	5.2	7.0	0.0	0.0
145°	1.7	3.5	5.2	0.0	0.0
147.5°	1.7	3.5	5.2	0.0	0.0
150°	1.7	1.7	3.5	0.0	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)