

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: P232544

Luminaire Tested: **8SKB1-LD5-6-N-UNV-L840-CD1-RS-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232544
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-LD5-6-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: 6389.0 lumens
Efficiency: N/A
Efficacy: 152.1 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

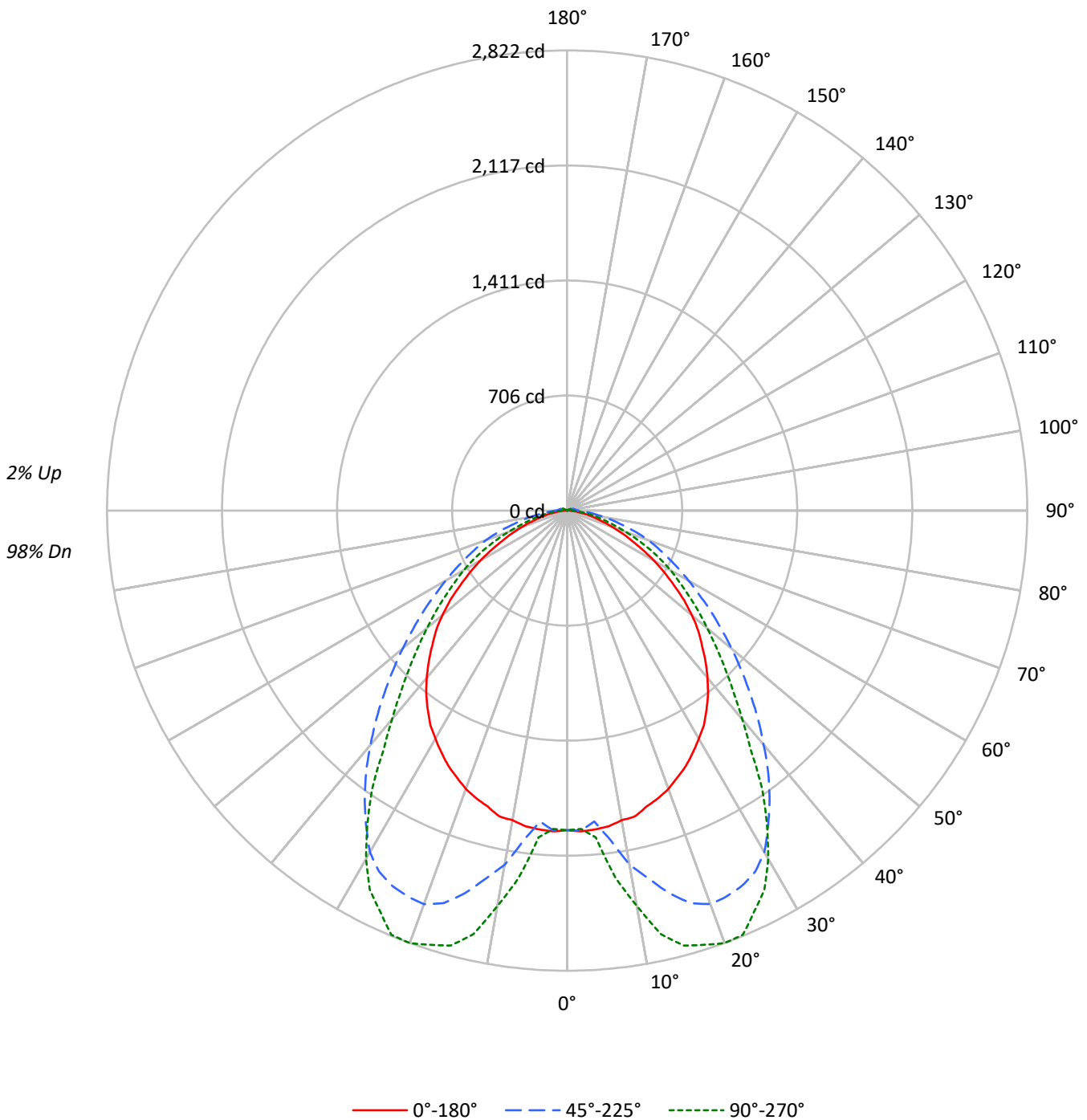
Input Watts (W): 42
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	10545	10545	10545
5°	10571	9621	9861
10°	10470	10476	11158
15°	10371	11028	11722
20°	10265	11233	11346
25°	10076	10795	10437
30°	9831	10082	9157
35°	9547	8912	7544
40°	9128	7687	5929
45°	8589	6522	4810
50°	8011	5480	3926
55°	7146	4553	3208
60°	6238	3743	2607
65°	5193	3068	2019
70°	4238	2483	1434
75°	3355	1813	955
80°	2545	1230	605
85°	1743	746	326



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.1	3.1
10°-20°	669.0	10.5
20°-30°	1097.1	17.2
30°-40°	1240.1	19.4
40°-50°	1117.4	17.5
50°-60°	880.4	13.8
60°-70°	605.5	9.5
70°-80°	337.6	5.3
80°-90°	137.0	2.1
90°-100°	52.2	0.8
100°-110°	29.1	0.5
110°-120°	15.9	0.2
120°-130°	5.5	0.1
130°-140°	3.8	0.1
140°-150°	2.2	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1962.1	30.7
0°-40°	3202.3	50.1
0°-60°	5200.0	81.4
0°-90°	6280.2	98.3
90°-120°	97.1	1.5
90°-150°	108.6	1.7
90°-180°	109.0	1.7
0°-180°	6389.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1959	1959	1959	1959	1959	
5°	1963	1971	1913	1998	2012	186
15°	1880	2023	2430	2712	2762	531
25°	1726	2086	2539	2728	2714	794
35°	1490	1880	2164	2133	2086	931
45°	1170	1461	1586	1465	1369	904
55°	801	1011	1075	981	912	719
65°	440	634	680	624	555	441
75°	183	387	364	291	246	198
85°	40	193	130	96	76	45
90°	2	123	71	47	33	3
95°	0	86	53	36	25	0
105°	0	22	39	34	26	0
115°	0	16	7	26	30	0
125°	1	12	6	5	0	1
135°	1	7	6	6	0	1
145°	1	4	4	5	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°	1959.4	1959.4	1959.4	1959.4	1959.4
2.5°	1969.0	1965.5	1963.8	1980.3	1954.2
5°	1962.9	1970.7	1913.4	1998.5	2011.6
7.5°	1952.5	1929.9	2036.8	2224.5	2269.7
10°	1928.2	1903.8	2204.5	2412.2	2461.7
12.5°	1921.2	1953.4	2312.2	2591.2	2660.7
15°	1879.5	2022.9	2430.4	2711.9	2761.5
17.5°	1850.8	2072.4	2525.1	2758.0	2792.8
20°	1816.1	2087.2	2568.6	2784.1	2822.3
22.5°	1770.0	2102.0	2560.7	2784.9	2816.2
25°	1725.7	2086.3	2539.0	2727.6	2713.7
27.5°	1671.8	2051.6	2497.3	2640.7	2620.7
30°	1615.3	2014.2	2419.1	2499.9	2466.0
32.5°	1560.6	1958.6	2294.0	2318.3	2279.2
35°	1490.2	1879.5	2164.5	2133.2	2086.3
37.5°	1419.0	1786.5	2026.4	1943.8	1850.0
40°	1339.0	1681.4	1875.2	1778.7	1670.1
42.5°	1256.5	1569.3	1731.8	1614.5	1510.2
45°	1169.6	1460.7	1585.8	1465.0	1369.4
47.5°	1091.4	1350.3	1448.5	1324.3	1240.8
50°	998.4	1235.6	1318.2	1198.3	1120.9
52.5°	904.6	1125.3	1188.7	1083.6	1013.2
55°	801.2	1010.6	1074.9	981.0	911.5
57.5°	706.4	908.9	959.3	885.4	815.1
60°	616.1	807.2	860.2	789.9	731.6
62.5°	523.1	719.5	769.9	708.2	643.0
65°	439.7	634.3	680.4	623.9	555.2
67.5°	365.8	562.2	603.9	528.3	463.1
70°	296.3	497.9	526.6	442.3	383.2
72.5°	234.6	437.9	447.5	359.7	307.6
75°	183.3	386.7	364.1	291.1	245.9
77.5°	136.4	341.5	293.7	231.1	192.9
80°	99.1	296.3	231.1	176.4	148.6
82.5°	68.6	244.2	177.3	132.9	109.5
85°	40.0	192.9	129.5	96.5	75.6
87.5°	14.8	156.4	94.7	65.2	50.4
90°	1.7	123.4	71.3	46.9	33.0
92.5°	0.9	104.3	59.1	39.1	26.9
95°	0.0	86.0	53.0	35.6	25.2
97.5°	0.0	67.8	48.7	34.8	25.2
100°	0.0	44.3	45.2	33.0	24.3
102.5°	0.0	25.2	42.6	33.0	25.2
105°	0.0	21.7	39.1	33.9	26.1
107.5°	0.0	20.0	34.8	35.6	27.8
110°	0.0	19.1	22.6	36.5	29.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	17.4	8.7	37.4	31.3
115°	0.0	16.5	7.0	26.1	29.5
117.5°	0.0	15.6	7.0	18.2	19.1
120°	0.9	13.9	7.0	5.2	5.2
122.5°	0.9	13.0	6.1	5.2	0.0
125°	0.9	12.2	6.1	5.2	0.0
127.5°	0.9	10.4	6.1	6.1	0.0
130°	0.9	9.6	6.1	5.2	0.0
132.5°	0.9	8.7	6.1	6.1	0.0
135°	0.9	7.0	6.1	6.1	0.0
137.5°	0.9	6.1	5.2	6.1	0.0
140°	0.9	5.2	5.2	6.1	0.0
142.5°	0.9	4.3	5.2	6.1	0.0
145°	0.9	3.5	4.3	5.2	0.0
147.5°	0.9	2.6	4.3	5.2	0.0
150°	0.9	2.6	3.5	5.2	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)