

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: P232539

Luminaire Tested: **8SKB1-LD5-14-W-UNV-L850-CD2-RS-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232539
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-LD5-14-W-UNV-L850-CD2-RS-U
Description: METALUX SKYBAR 8' WAVESTREAM STRIP
WITH WIDE LENS AND REFLECTOR
Light Source: (476) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13910.0 lumens
Efficiency: N/A
Efficacy: 132.0 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

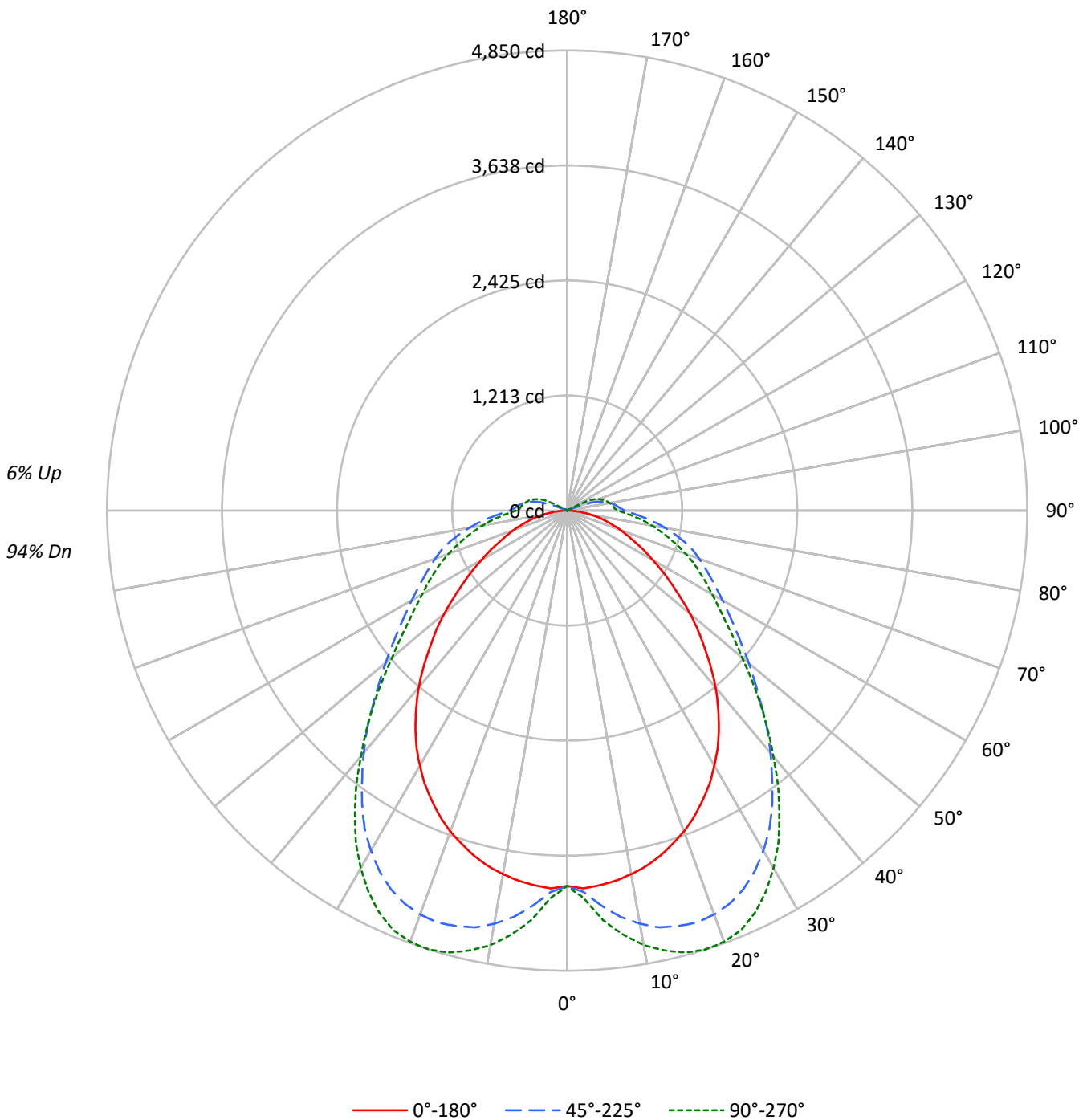
Input Watts (W): 105.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	21296	21296	21296
5°	21343	21028	21239
10°	21128	21010	21077
15°	20810	20566	20466
20°	20349	19813	19441
25°	19696	18710	17996
30°	18886	17239	16156
35°	17856	15520	14100
40°	16596	13667	12004
45°	15059	11895	10117
50°	13575	10387	8426
55°	11923	9142	7173
60°	10549	8224	6285
65°	9357	7516	5604
70°	8527	6974	4971
75°	7666	6401	4303
80°	6729	5566	3677
85°	4947	4621	3039



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	404.4	2.9
10°-20°	1257.4	9.0
20°-30°	1958.3	14.1
30°-40°	2251.6	16.2
40°-50°	2109.4	15.2
50°-60°	1774.3	12.8
60°-70°	1453.4	10.4
70°-80°	1131.6	8.1
80°-90°	729.3	5.2
90°-100°	448.9	3.2
100°-110°	279.1	2.0
110°-120°	91.8	0.7
120°-130°	12.5	0.1
130°-140°	5.8	0.0
140°-150°	2.0	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3620.1	26.0
0°-40°	5871.7	42.2
0°-60°	9755.5	70.1
0°-90°	13069.7	94.0
90°-120°	819.8	5.9
90°-150°	840.1	6.0
90°-180°	840.0	6.0
0°-180°	13910.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3957	3957	3957	3957	3957	
5°	3963	4046	4182	4318	4332	376
15°	3771	4194	4533	4786	4821	1062
25°	3373	3988	4401	4654	4679	1552
35°	2787	3406	3769	3924	3899	1739
45°	2051	2622	2892	2942	2880	1586
55°	1337	1914	2158	2121	2038	1205
65°	792	1413	1667	1597	1541	795
75°	419	1077	1285	1162	1108	448
85°	114	710	802	732	706	124
90°	6	493	604	557	540	9
95°	0	373	528	503	487	0
105°	0	76	363	421	415	0
115°	0	52	35	169	258	0
125°	0	31	25	0	0	0
135°	0	14	14	0	0	0
145°	2	4	6	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°	3957.0	3957.0	3957.0	3957.0	3957.0
2.5°	3985.9	3994.1	4025.1	4105.5	4089.0
5°	3963.2	4045.7	4181.9	4318.0	4332.5
7.5°	3934.3	4115.8	4320.1	4493.4	4507.8
10°	3891.0	4163.3	4421.2	4631.6	4650.2
12.5°	3839.4	4194.2	4499.6	4730.6	4749.2
15°	3771.3	4194.2	4532.6	4786.3	4821.4
17.5°	3686.7	4177.7	4551.2	4817.3	4850.3
20°	3600.1	4138.5	4530.5	4804.9	4835.9
22.5°	3494.9	4076.6	4481.0	4749.2	4786.3
25°	3373.1	3987.9	4400.6	4654.3	4679.1
27.5°	3249.4	3876.5	4283.0	4514.0	4532.6
30°	3102.9	3738.3	4136.5	4342.8	4351.0
32.5°	2956.4	3591.8	3971.4	4150.9	4144.7
35°	2787.2	3406.1	3769.3	3924.0	3899.2
37.5°	2611.9	3226.7	3548.5	3674.3	3649.6
40°	2434.4	3028.6	3333.9	3420.6	3381.4
42.5°	2242.6	2822.3	3119.4	3175.1	3127.6
45°	2050.7	2622.2	2892.4	2942.0	2880.1
47.5°	1873.3	2424.1	2686.1	2694.4	2634.6
50°	1691.7	2244.6	2498.4	2490.1	2405.6
52.5°	1506.0	2071.3	2321.0	2300.3	2213.7
55°	1336.9	1914.5	2158.0	2120.8	2038.3
57.5°	1188.3	1770.1	2017.7	1959.9	1891.8
60°	1041.9	1638.1	1889.8	1825.8	1763.9
62.5°	916.0	1514.3	1772.2	1706.2	1652.5
65°	792.2	1413.2	1667.0	1596.8	1541.1
67.5°	689.1	1312.1	1572.1	1493.7	1440.0
70°	596.2	1227.5	1479.2	1388.5	1328.6
72.5°	505.5	1153.3	1390.5	1268.8	1217.2
75°	418.8	1076.9	1285.3	1161.5	1107.9
77.5°	344.5	1006.8	1165.6	1048.0	1004.7
80°	262.0	934.6	1046.0	940.8	903.6
82.5°	185.7	831.4	928.4	833.5	806.7
85°	113.5	709.7	802.5	732.4	705.6
87.5°	49.5	585.9	691.1	633.4	614.8
90°	6.2	493.1	604.5	557.0	540.5
92.5°	2.1	433.2	559.1	519.9	501.3
95°	0.0	373.4	528.1	503.4	486.9
97.5°	0.0	303.3	499.3	489.0	472.4
100°	0.0	196.0	462.1	468.3	453.9
102.5°	0.0	82.5	418.8	445.6	433.2
105°	0.0	76.3	363.1	420.9	414.7
107.5°	0.0	70.1	286.8	387.9	383.7
110°	0.0	64.0	148.5	348.7	350.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	57.8	37.1	297.1	309.5
115°	0.0	51.6	35.1	169.2	257.9
117.5°	0.0	47.5	30.9	2.1	88.7
120°	0.0	41.3	28.9	2.1	0.0
122.5°	0.0	35.1	26.8	0.0	0.0
125°	0.0	30.9	24.8	0.0	0.0
127.5°	0.0	26.8	20.6	0.0	0.0
130°	0.0	22.7	18.6	0.0	0.0
132.5°	0.0	18.6	16.5	0.0	0.0
135°	0.0	14.4	14.4	0.0	0.0
137.5°	0.0	12.4	12.4	0.0	0.0
140°	0.0	8.3	10.3	0.0	0.0
142.5°	2.1	6.2	8.3	0.0	0.0
145°	2.1	4.1	6.2	0.0	0.0
147.5°	2.1	4.1	6.2	0.0	0.0
150°	2.1	2.1	4.1	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)