

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: P232542

Luminaire Tested: **8SKB1-LD5-16-W-UNV-L850-CD2-RS-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232542
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-LD5-16-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: 16179.0 lumens
Efficiency: N/A
Efficacy: 124.0 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

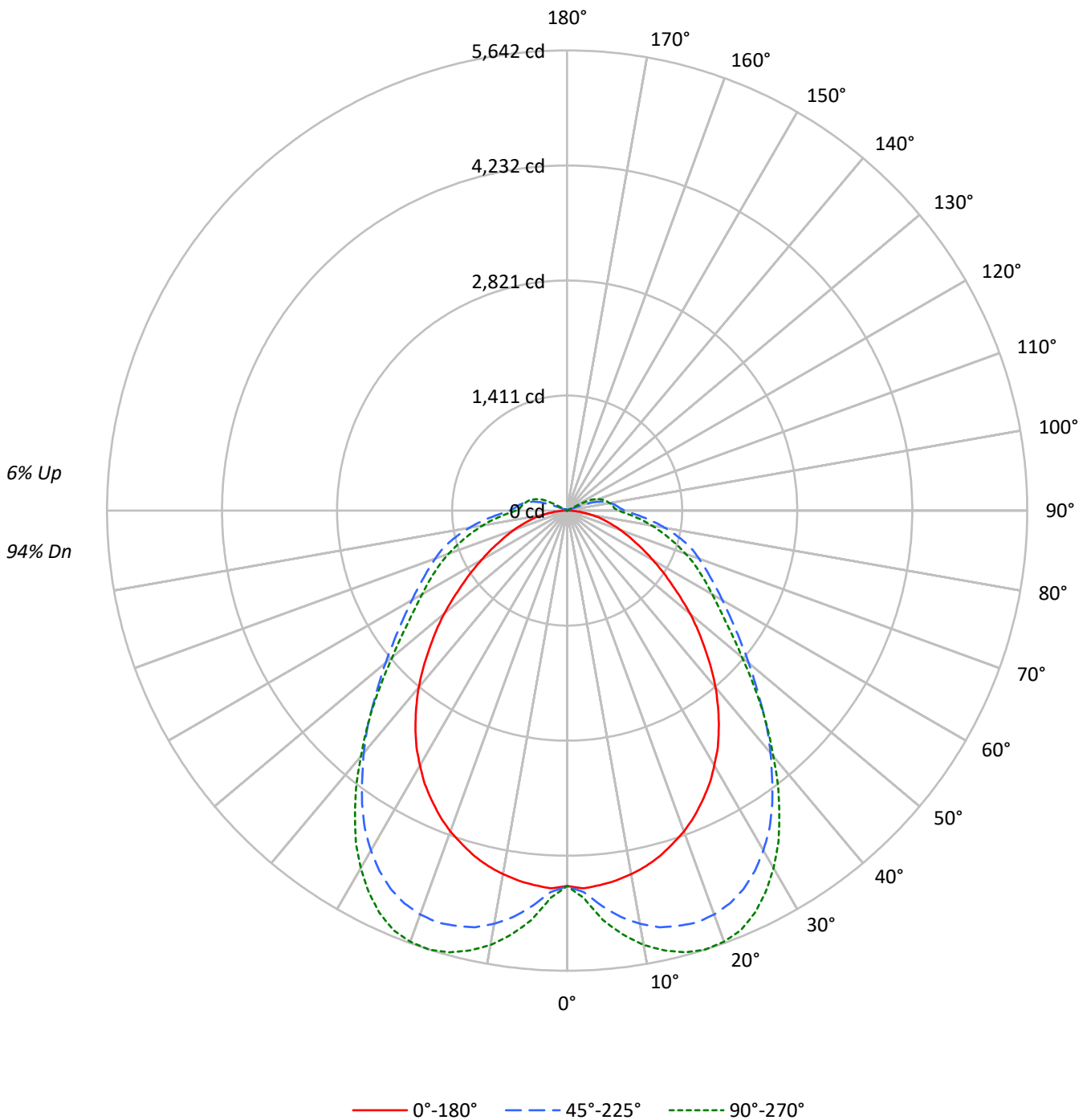
Input Watts (W): 130.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	24770	24770	24770
5°	24825	24457	24703
10°	24575	24437	24515
15°	24204	23921	23804
20°	23668	23044	22612
25°	22909	21762	20931
30°	21966	20051	18792
35°	20770	18051	16400
40°	19303	15896	13963
45°	17516	13836	11768
50°	15789	12081	9800
55°	13868	10633	8343
60°	12269	9565	7311
65°	10884	8742	6518
70°	9919	8112	5782
75°	8916	7446	5005
80°	7828	6473	4277
85°	5753	5375	3535



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	470.3	2.9
10°-20°	1462.5	9.0
20°-30°	2277.8	14.1
30°-40°	2618.9	16.2
40°-50°	2453.5	15.2
50°-60°	2063.8	12.8
60°-70°	1690.5	10.4
70°-80°	1316.2	8.1
80°-90°	848.2	5.2
90°-100°	522.1	3.2
100°-110°	324.6	2.0
110°-120°	106.8	0.7
120°-130°	14.5	0.1
130°-140°	6.7	0.0
140°-150°	2.4	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4210.6	26.0
0°-40°	6829.5	42.2
0°-60°	11346.8	70.1
0°-90°	15201.7	94.0
90°-120°	953.5	5.9
90°-150°	977.2	6.0
90°-180°	977.0	6.0
0°-180°	16179.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4602	4602	4602	4602	4602	
5°	4610	4706	4864	5022	5039	437
15°	4386	4878	5272	5567	5608	1235
25°	3923	4638	5118	5414	5442	1805
35°	3242	3962	4384	4564	4535	2022
45°	2385	3050	3364	3422	3350	1844
55°	1555	2227	2510	2467	2371	1402
65°	922	1644	1939	1857	1792	925
75°	487	1253	1495	1351	1289	521
85°	132	826	933	852	821	144
90°	7	574	703	648	629	10
95°	0	434	614	586	566	0
105°	0	89	422	490	482	0
115°	0	60	41	197	300	0
125°	0	36	29	0	0	0
135°	0	17	17	0	0	0
145°	2	5	7	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°	4602.5	4602.5	4602.5	4602.5	4602.5
2.5°	4636.0	4645.6	4681.6	4775.2	4756.0
5°	4609.7	4705.6	4864.0	5022.4	5039.2
7.5°	4576.1	4787.2	5024.8	5226.4	5243.2
10°	4525.7	4842.4	5142.4	5387.1	5408.7
12.5°	4465.7	4878.4	5233.6	5502.3	5523.9
15°	4386.5	4878.4	5271.9	5567.1	5607.9
17.5°	4288.1	4859.2	5293.5	5603.1	5641.5
20°	4187.3	4813.6	5269.5	5588.7	5624.7
22.5°	4064.9	4741.6	5212.0	5523.9	5567.1
25°	3923.4	4638.4	5118.4	5413.5	5442.3
27.5°	3779.4	4508.9	4981.6	5250.4	5271.9
30°	3609.0	4348.1	4811.2	5051.2	5060.8
32.5°	3438.6	4177.7	4619.3	4828.0	4820.8
35°	3241.9	3961.8	4384.1	4564.1	4535.3
37.5°	3037.9	3753.0	4127.3	4273.7	4244.9
40°	2831.5	3522.6	3877.8	3978.6	3933.0
42.5°	2608.4	3282.7	3628.2	3693.0	3637.8
45°	2385.2	3049.9	3364.3	3421.8	3349.9
47.5°	2178.8	2819.5	3124.3	3133.9	3064.3
50°	1967.7	2610.8	2905.9	2896.3	2797.9
52.5°	1751.7	2409.2	2699.6	2675.6	2574.8
55°	1554.9	2226.8	2510.0	2466.8	2370.8
57.5°	1382.2	2058.9	2346.8	2279.6	2200.4
60°	1211.8	1905.3	2198.0	2123.7	2051.7
62.5°	1065.4	1761.3	2061.3	1984.5	1922.1
65°	921.5	1643.7	1938.9	1857.3	1792.5
67.5°	801.5	1526.2	1828.5	1737.3	1674.9
70°	693.5	1427.8	1720.5	1614.9	1545.3
72.5°	587.9	1341.4	1617.3	1475.8	1415.8
75°	487.1	1252.6	1495.0	1351.0	1288.6
77.5°	400.7	1171.0	1355.8	1219.0	1168.6
80°	304.8	1087.0	1216.6	1094.2	1051.0
82.5°	216.0	967.0	1079.8	969.4	938.2
85°	132.0	825.5	933.4	851.9	820.7
87.5°	57.6	681.5	803.9	736.7	715.1
90°	7.2	573.5	703.1	647.9	628.7
92.5°	2.4	503.9	650.3	604.7	583.1
95°	0.0	434.3	614.3	585.5	566.3
97.5°	0.0	352.7	580.7	568.7	549.5
100°	0.0	228.0	537.5	544.7	527.9
102.5°	0.0	96.0	487.1	518.3	503.9
105°	0.0	88.8	422.3	489.5	482.3
107.5°	0.0	81.6	333.5	451.1	446.3
110°	0.0	74.4	172.8	405.5	407.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	67.2	43.2	345.5	359.9
115°	0.0	60.0	40.8	196.8	300.0
117.5°	0.0	55.2	36.0	2.4	103.2
120°	0.0	48.0	33.6	2.4	0.0
122.5°	0.0	40.8	31.2	0.0	0.0
125°	0.0	36.0	28.8	0.0	0.0
127.5°	0.0	31.2	24.0	0.0	0.0
130°	0.0	26.4	21.6	0.0	0.0
132.5°	0.0	21.6	19.2	0.0	0.0
135°	0.0	16.8	16.8	0.0	0.0
137.5°	0.0	14.4	14.4	0.0	0.0
140°	0.0	9.6	12.0	0.0	0.0
142.5°	2.4	7.2	9.6	0.0	0.0
145°	2.4	4.8	7.2	0.0	0.0
147.5°	2.4	4.8	7.2	0.0	0.0
150°	2.4	2.4	4.8	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)