

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: P232627

Luminaire Tested: **4SKB1-LD5-7-N-UNV-L835-CD1-RS-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232627
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: 4SKB1-LD5-7-N-UNV-L835-CD1-RS-U
Description: METALUX SKYBAR 4' WAVESTREAM STRIP
WITH NARROW LENS AND REFLECTOR
Light Source: (238) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6874.0 lumens
Efficiency: N/A
Efficacy: 130.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.5 / 1.49
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.29')
CIE Type: Direct

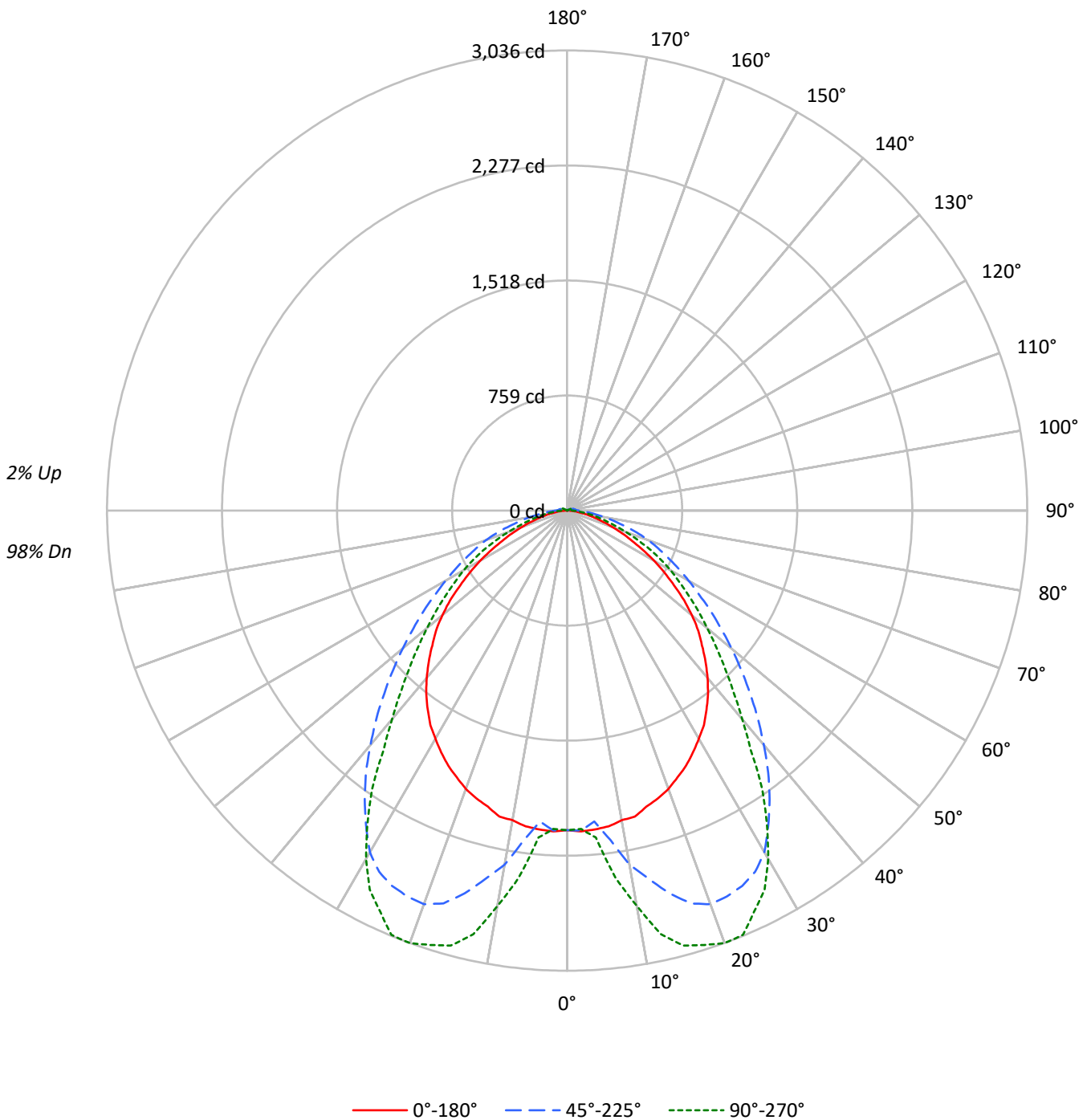
Input Watts (W): 52.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	22692	22692	22692
5°	22674	20659	21219
10°	22386	22453	24010
15°	22103	23597	25223
20°	21803	24000	24415
25°	21326	23031	22458
30°	20729	21480	19704
35°	20044	18963	16234
40°	19076	16334	12758
45°	17854	13841	10352
50°	16550	11615	8448
55°	14651	9638	6903
60°	12669	7912	5610
65°	10420	6474	4345
70°	8359	5231	3085
75°	6450	3814	2055
80°	4675	2582	1301
85°	2896	1561	700



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.9	3.1
10°-20°	719.8	10.5
20°-30°	1180.4	17.2
30°-40°	1334.3	19.4
40°-50°	1202.2	17.5
50°-60°	947.2	13.8
60°-70°	651.5	9.5
70°-80°	363.3	5.3
80°-90°	147.4	2.1
90°-100°	56.1	0.8
100°-110°	31.3	0.5
110°-120°	17.1	0.2
120°-130°	5.8	0.1
130°-140°	4.0	0.1
140°-150°	2.4	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2111.1	30.7
0°-40°	3445.4	50.1
0°-60°	5594.8	81.4
0°-90°	6757.0	98.3
90°-120°	104.5	1.5
90°-150°	116.8	1.7
90°-180°	117.0	1.7
0°-180°	6874.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2108	2108	2108	2108	2108	
5°	2112	2120	2059	2150	2164	200
15°	2022	2176	2615	2918	2971	572
25°	1857	2245	2732	2935	2920	854
35°	1603	2022	2329	2295	2245	1001
45°	1258	1572	1706	1576	1473	972
55°	862	1087	1156	1056	981	773
65°	473	682	732	671	597	474
75°	197	416	392	313	265	213
85°	43	208	139	104	81	48
90°	2	133	77	50	36	3
95°	0	93	57	38	27	0
105°	0	23	42	36	28	0
115°	0	18	8	28	32	0
125°	1	13	6	6	0	1
135°	1	8	6	6	0	1
145°	1	4	5	6	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°	2108.2	2108.2	2108.2	2108.2	2108.2
2.5°	2118.5	2114.7	2112.9	2130.6	2102.6
5°	2111.9	2120.3	2058.6	2150.3	2164.3
7.5°	2100.7	2076.4	2191.4	2393.3	2441.9
10°	2074.5	2048.4	2371.8	2595.3	2648.6
12.5°	2067.1	2101.6	2487.8	2787.9	2862.7
15°	2022.2	2176.4	2614.9	2917.8	2971.1
17.5°	1991.3	2229.7	2716.8	2967.4	3004.8
20°	1953.9	2245.6	2763.6	2995.4	3036.5
22.5°	1904.4	2261.5	2755.1	2996.3	3030.0
25°	1856.7	2244.7	2731.8	2934.6	2919.7
27.5°	1798.7	2207.3	2686.9	2841.2	2819.6
30°	1738.0	2167.1	2602.8	2689.7	2653.2
32.5°	1679.1	2107.3	2468.1	2494.3	2452.2
35°	1603.3	2022.2	2328.8	2295.2	2244.7
37.5°	1526.7	1922.1	2180.2	2091.4	1990.4
40°	1440.7	1809.0	2017.5	1913.7	1796.9
42.5°	1351.9	1688.4	1863.2	1737.0	1624.9
45°	1258.4	1571.6	1706.2	1576.2	1473.4
47.5°	1174.2	1452.8	1558.5	1424.8	1335.0
50°	1074.2	1329.4	1418.2	1289.2	1206.0
52.5°	973.2	1210.7	1278.9	1165.8	1090.1
55°	862.0	1087.3	1156.5	1055.5	980.7
57.5°	760.1	977.9	1032.1	952.7	876.9
60°	662.8	868.5	925.5	849.8	787.2
62.5°	562.8	774.1	828.3	761.9	691.8
65°	473.1	682.5	732.0	671.3	597.4
67.5°	393.6	604.9	649.8	568.4	498.3
70°	318.8	535.7	566.5	475.9	412.3
72.5°	252.4	471.2	481.5	387.0	331.0
75°	197.3	416.0	391.7	313.2	264.6
77.5°	146.8	367.4	316.0	248.7	207.5
80°	106.6	318.8	248.7	189.8	159.9
82.5°	73.9	262.7	190.7	143.0	117.8
85°	43.0	207.5	139.3	103.8	81.3
87.5°	15.9	168.3	101.9	70.1	54.2
90°	1.9	132.8	76.7	50.5	35.5
92.5°	0.9	112.2	63.6	42.1	29.0
95°	0.0	92.6	57.0	38.3	27.1
97.5°	0.0	72.9	52.4	37.4	27.1
100°	0.0	47.7	48.6	35.5	26.2
102.5°	0.0	27.1	45.8	35.5	27.1
105°	0.0	23.4	42.1	36.5	28.0
107.5°	0.0	21.5	37.4	38.3	29.9
110°	0.0	20.6	24.3	39.3	31.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	18.7	9.3	40.2	33.7
115°	0.0	17.8	7.5	28.0	31.8
117.5°	0.0	16.8	7.5	19.6	20.6
120°	0.9	15.0	7.5	5.6	5.6
122.5°	0.9	14.0	6.5	5.6	0.0
125°	0.9	13.1	6.5	5.6	0.0
127.5°	0.9	11.2	6.5	6.5	0.0
130°	0.9	10.3	6.5	5.6	0.0
132.5°	0.9	9.3	6.5	6.5	0.0
135°	0.9	7.5	6.5	6.5	0.0
137.5°	0.9	6.5	5.6	6.5	0.0
140°	0.9	5.6	5.6	6.5	0.0
142.5°	0.9	4.7	5.6	6.5	0.0
145°	0.9	3.7	4.7	5.6	0.0
147.5°	0.9	2.8	4.7	5.6	0.0
150°	0.9	2.8	3.7	5.6	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)