

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: P232602

Luminaire Tested: **4SKB1-LD5-4-W-UNV-L850-CD1-RS-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232602
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: 4SKB1-LD5-4-W-UNV-L850-CD1-RS-U
Description: METALUX SKYBAR 4' WAVESTREAM STRIP
WITH WIDE LENS AND REFLECTOR
Light Source: (196) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4023.0 lumens
Efficiency: N/A
Efficacy: 138.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.47 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.29')
CIE Type: Direct

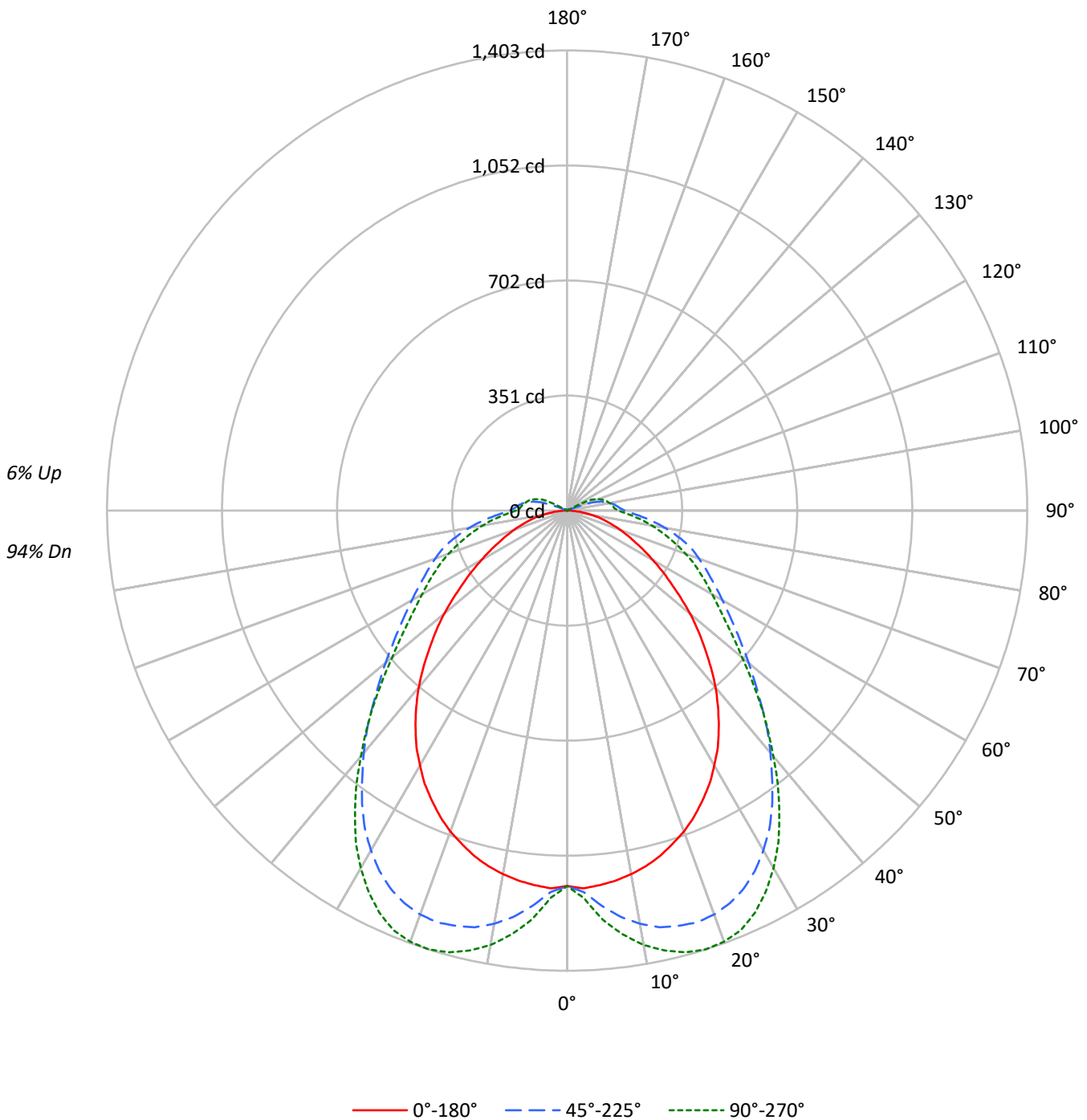
Input Watts (W): 29
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	12318	12318	12318
5°	12306	12138	12285
10°	12143	12105	12192
15°	11921	11830	11838
20°	11618	11379	11245
25°	11206	10730	10409
30°	10703	9873	9346
35°	10078	8876	8156
40°	9323	7806	6944
45°	8415	6786	5852
50°	7539	5918	4874
55°	6571	5201	4149
60°	5759	4673	3636
65°	5046	4264	3242
70°	4520	3950	2876
75°	3959	3619	2489
80°	3324	3140	2127
85°	2209	2601	1758



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.9	2.9
10°-20°	363.7	9.0
20°-30°	566.4	14.1
30°-40°	651.2	16.2
40°-50°	610.1	15.2
50°-60°	513.2	12.8
60°-70°	420.3	10.4
70°-80°	327.3	8.1
80°-90°	210.9	5.2
90°-100°	129.8	3.2
100°-110°	80.7	2.0
110°-120°	26.5	0.7
120°-130°	3.6	0.1
130°-140°	1.7	0.0
140°-150°	0.6	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1047.0	26.0
0°-40°	1698.2	42.2
0°-60°	2821.5	70.1
0°-90°	3780.0	94.0
90°-120°	237.1	5.9
90°-150°	243.0	6.0
90°-180°	243.0	6.0
0°-180°	4023.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1144	1144	1144	1144	1144	
5°	1146	1170	1210	1249	1253	109
15°	1091	1213	1311	1384	1394	307
25°	976	1153	1273	1346	1353	449
35°	806	985	1090	1135	1128	503
45°	593	758	836	851	833	459
55°	387	554	624	613	590	349
65°	229	409	482	462	446	230
75°	121	312	372	336	320	129
85°	33	205	232	212	204	36
90°	2	143	175	161	156	3
95°	0	108	153	146	141	0
105°	0	22	105	122	120	0
115°	0	15	10	49	75	0
125°	0	9	7	0	0	0
135°	0	4	4	0	0	0
145°	1	1	2	0	0	0
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°	1144.4	1144.4	1144.4	1144.4	1144.4
2.5°	1152.8	1155.2	1164.1	1187.4	1182.6
5°	1146.2	1170.1	1209.5	1248.8	1253.0
7.5°	1137.9	1190.4	1249.4	1299.6	1303.7
10°	1125.3	1204.1	1278.7	1339.5	1344.9
12.5°	1110.4	1213.0	1301.4	1368.2	1373.6
15°	1090.7	1213.0	1310.9	1384.3	1394.4
17.5°	1066.3	1208.3	1316.3	1393.2	1402.8
20°	1041.2	1196.9	1310.3	1389.7	1398.6
22.5°	1010.8	1179.0	1296.0	1373.6	1384.3
25°	975.6	1153.4	1272.7	1346.1	1353.3
27.5°	939.8	1121.2	1238.7	1305.5	1310.9
30°	897.4	1081.2	1196.3	1256.0	1258.4
32.5°	855.0	1038.8	1148.6	1200.5	1198.7
35°	806.1	985.1	1090.1	1134.9	1127.7
37.5°	755.4	933.2	1026.3	1062.7	1055.5
40°	704.1	875.9	964.2	989.3	978.0
42.5°	648.6	816.3	902.2	918.3	904.6
45°	593.1	758.4	836.5	850.9	833.0
47.5°	541.8	701.1	776.9	779.3	762.0
50°	489.3	649.2	722.6	720.2	695.7
52.5°	435.6	599.1	671.3	665.3	640.2
55°	386.6	553.7	624.1	613.4	589.5
57.5°	343.7	511.9	583.6	566.8	547.2
60°	301.3	473.8	546.6	528.1	510.2
62.5°	264.9	438.0	512.5	493.5	477.9
65°	229.1	408.7	482.1	461.8	445.7
67.5°	199.3	379.5	454.7	432.0	416.5
70°	172.4	355.0	427.8	401.6	384.3
72.5°	146.2	333.5	402.2	367.0	352.0
75°	121.1	311.5	371.7	335.9	320.4
77.5°	99.6	291.2	337.1	303.1	290.6
80°	75.8	270.3	302.5	272.1	261.3
82.5°	53.7	240.5	268.5	241.1	233.3
85°	32.8	205.3	232.1	211.8	204.1
87.5°	14.3	169.5	199.9	183.2	177.8
90°	1.8	142.6	174.8	161.1	156.3
92.5°	0.6	125.3	161.7	150.4	145.0
95°	0.0	108.0	152.7	145.6	140.8
97.5°	0.0	87.7	144.4	141.4	136.6
100°	0.0	56.7	133.7	135.4	131.3
102.5°	0.0	23.9	121.1	128.9	125.3
105°	0.0	22.1	105.0	121.7	119.9
107.5°	0.0	20.3	82.9	112.2	111.0
110°	0.0	18.5	43.0	100.8	101.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	16.7	10.7	85.9	89.5
115°	0.0	14.9	10.1	48.9	74.6
117.5°	0.0	13.7	9.0	0.6	25.7
120°	0.0	11.9	8.4	0.6	0.0
122.5°	0.0	10.1	7.8	0.0	0.0
125°	0.0	9.0	7.2	0.0	0.0
127.5°	0.0	7.8	6.0	0.0	0.0
130°	0.0	6.6	5.4	0.0	0.0
132.5°	0.0	5.4	4.8	0.0	0.0
135°	0.0	4.2	4.2	0.0	0.0
137.5°	0.0	3.6	3.6	0.0	0.0
140°	0.0	2.4	3.0	0.0	0.0
142.5°	0.6	1.8	2.4	0.0	0.0
145°	0.6	1.2	1.8	0.0	0.0
147.5°	0.6	1.2	1.8	0.0	0.0
150°	0.6	0.6	1.2	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)