

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: P232618

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232618
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-LD5-4-N-UNV-L835-CD1-RS-U
Description: METALUX SKYBAR 4' WAVESTREAM STRIP
WITH NARROW LENS AND REFLECTOR
Light Source: (196) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3976.0 lumens
Efficiency: N/A
Efficacy: 137.1 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

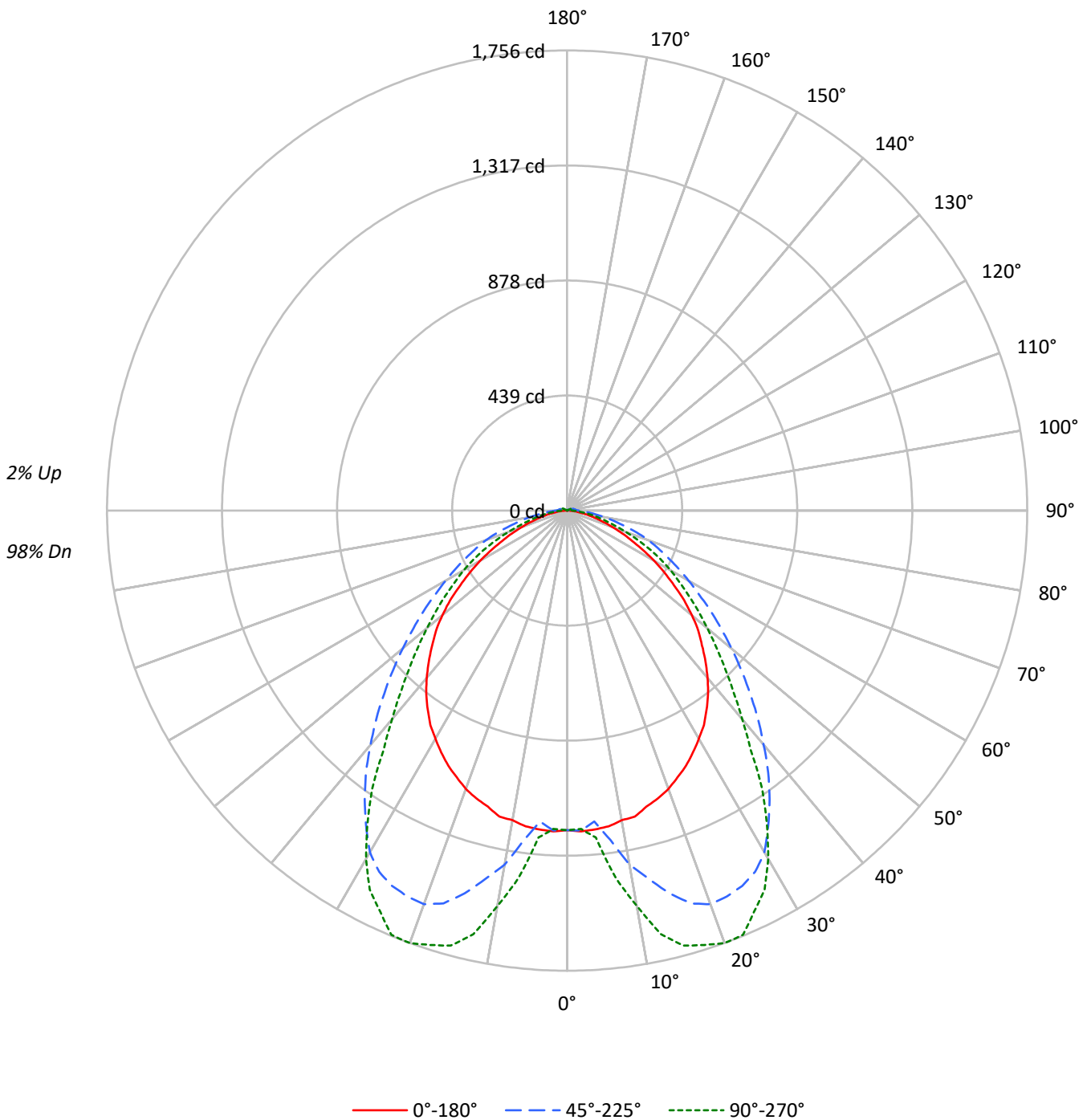
Input Watts (W): 29
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	13126	13126	13126
5°	13116	11949	12273
10°	12948	12987	13888
15°	12785	13649	14589
20°	12611	13882	14122
25°	12335	13321	12990
30°	11990	12424	11398
35°	11594	10968	9390
40°	11034	9448	7379
45°	10327	8006	5987
50°	9572	6718	4887
55°	8474	5574	3993
60°	7328	4576	3245
65°	6026	3745	2513
70°	4835	3026	1785
75°	3730	2206	1188
80°	2701	1493	753
85°	1677	903	405



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.0	3.1
10°-20°	416.3	10.5
20°-30°	682.7	17.2
30°-40°	771.8	19.4
40°-50°	695.3	17.5
50°-60°	547.9	13.8
60°-70°	376.8	9.5
70°-80°	210.1	5.3
80°-90°	85.3	2.1
90°-100°	32.5	0.8
100°-110°	18.1	0.5
110°-120°	9.9	0.2
120°-130°	3.4	0.1
130°-140°	2.3	0.1
140°-150°	1.4	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1221.1	30.7
0°-40°	1992.9	50.1
0°-60°	3236.1	81.4
0°-90°	3908.3	98.3
90°-120°	60.4	1.5
90°-150°	67.5	1.7
90°-180°	68.0	1.7
0°-180°	3976.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1219	1219	1219	1219	1219	
5°	1222	1226	1191	1244	1252	116
15°	1170	1259	1512	1688	1718	331
25°	1074	1298	1580	1697	1689	494
35°	927	1170	1347	1328	1298	579
45°	728	909	987	912	852	562
55°	499	629	669	610	567	447
65°	274	395	423	388	346	274
75°	114	241	227	181	153	123
85°	25	120	81	60	47	28
90°	1	77	44	29	20	2
95°	0	54	33	22	16	0
105°	0	14	24	21	16	0
115°	0	10	4	16	18	0
125°	0	8	4	3	0	0
135°	0	4	4	4	0	0
145°	0	2	3	3	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°	1219.4	1219.4	1219.4	1219.4	1219.4
2.5°	1225.4	1223.2	1222.1	1232.4	1216.2
5°	1221.6	1226.4	1190.7	1243.7	1251.8
7.5°	1215.1	1201.0	1267.5	1384.3	1412.5
10°	1199.9	1184.8	1371.9	1501.1	1532.0
12.5°	1195.6	1215.6	1438.9	1612.5	1655.8
15°	1169.7	1258.9	1512.5	1687.7	1718.5
17.5°	1151.8	1289.7	1571.4	1716.4	1738.0
20°	1130.2	1298.9	1598.5	1732.6	1756.4
22.5°	1101.5	1308.1	1593.6	1733.1	1752.6
25°	1073.9	1298.4	1580.1	1697.4	1688.8
27.5°	1040.4	1276.7	1554.1	1643.4	1630.9
30°	1005.3	1253.5	1505.5	1555.8	1534.7
32.5°	971.2	1218.9	1427.6	1442.7	1418.4
35°	927.4	1169.7	1347.0	1327.6	1298.4
37.5°	883.1	1111.8	1261.0	1209.7	1151.3
40°	833.3	1046.4	1166.9	1106.9	1039.3
42.5°	781.9	976.6	1077.7	1004.7	939.8
45°	727.9	909.0	986.9	911.7	852.2
47.5°	679.2	840.3	901.4	824.1	772.2
50°	621.3	769.0	820.3	745.7	697.6
52.5°	562.9	700.3	739.8	674.3	630.5
55°	498.6	628.9	668.9	610.5	567.3
57.5°	439.6	565.6	597.0	551.0	507.2
60°	383.4	502.4	535.3	491.5	455.3
62.5°	325.5	447.7	479.1	440.7	400.2
65°	273.6	394.8	423.4	388.3	345.5
67.5°	227.7	349.9	375.8	328.8	288.2
70°	184.4	309.9	327.7	275.2	238.5
72.5°	146.0	272.5	278.5	223.9	191.4
75°	114.1	240.6	226.6	181.2	153.0
77.5°	84.9	212.5	182.8	143.8	120.0
80°	61.6	184.4	143.8	109.8	92.5
82.5°	42.7	152.0	110.3	82.7	68.1
85°	24.9	120.0	80.6	60.0	47.0
87.5°	9.2	97.3	58.9	40.6	31.4
90°	1.1	76.8	44.3	29.2	20.5
92.5°	0.5	64.9	36.8	24.3	16.8
95°	0.0	53.5	33.0	22.2	15.7
97.5°	0.0	42.2	30.3	21.6	15.7
100°	0.0	27.6	28.1	20.5	15.1
102.5°	0.0	15.7	26.5	20.5	15.7
105°	0.0	13.5	24.3	21.1	16.2
107.5°	0.0	12.4	21.6	22.2	17.3
110°	0.0	11.9	14.1	22.7	18.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	10.8	5.4	23.3	19.5
115°	0.0	10.3	4.3	16.2	18.4
117.5°	0.0	9.7	4.3	11.4	11.9
120°	0.5	8.7	4.3	3.2	3.2
122.5°	0.5	8.1	3.8	3.2	0.0
125°	0.5	7.6	3.8	3.2	0.0
127.5°	0.5	6.5	3.8	3.8	0.0
130°	0.5	5.9	3.8	3.2	0.0
132.5°	0.5	5.4	3.8	3.8	0.0
135°	0.5	4.3	3.8	3.8	0.0
137.5°	0.5	3.8	3.2	3.8	0.0
140°	0.5	3.2	3.2	3.8	0.0
142.5°	0.5	2.7	3.2	3.8	0.0
145°	0.5	2.2	2.7	3.2	0.0
147.5°	0.5	1.6	2.7	3.2	0.0
150°	0.5	1.6	2.2	3.2	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)