

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: P232600

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232600
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-L835-CD1-RS-U
Description: METALUX SKYBAR 4' WAVESTREAM STRIP
WITH WIDE LENS AND REFLECTOR
Light Source: (196) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3646.0 lumens
Efficiency: N/A
Efficacy: 125.7 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

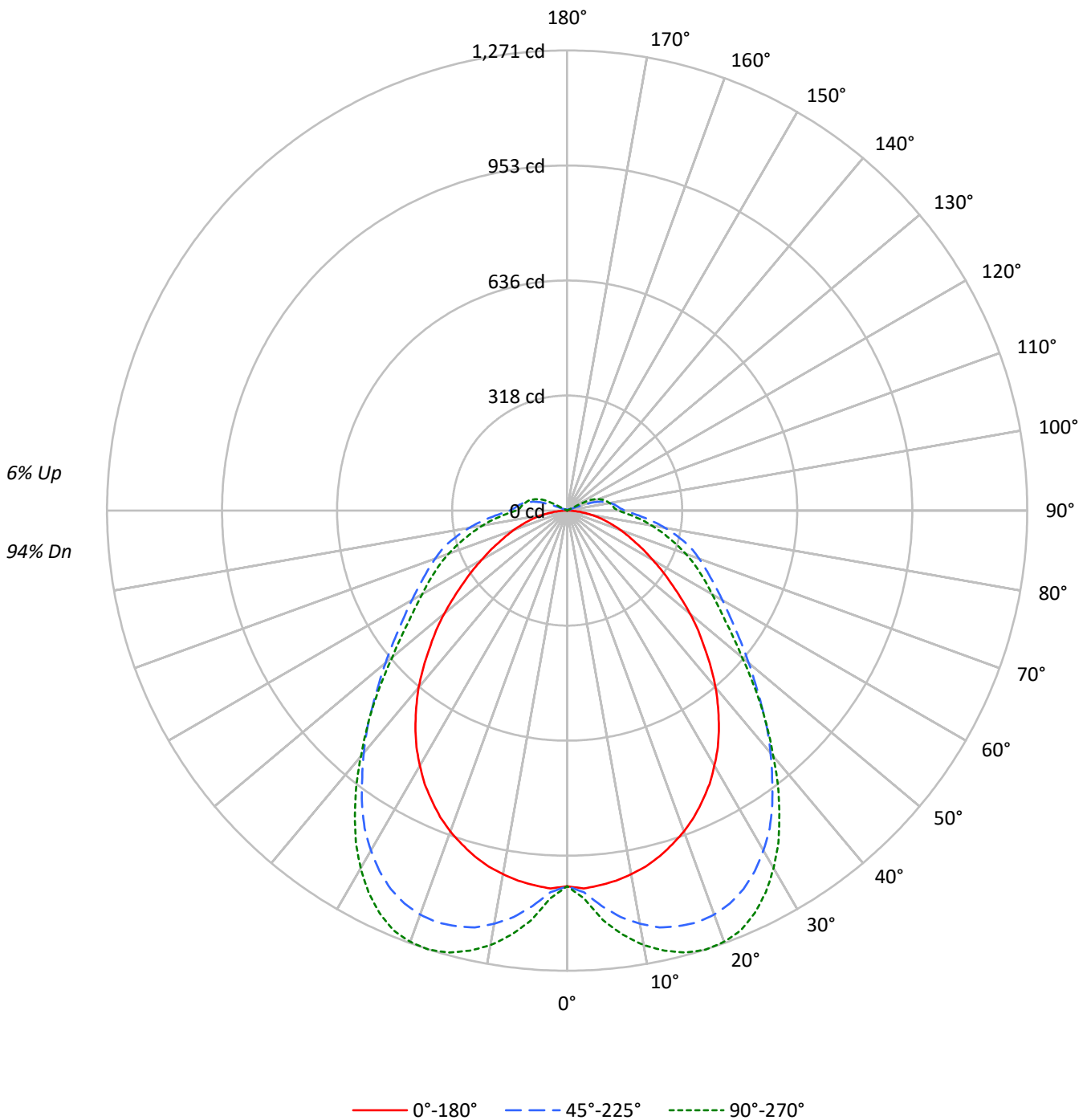
Input Watts (W): 29
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	11164	11164	11164
5°	11153	11000	11134
10°	11006	10971	11049
15°	10804	10722	10729
20°	10529	10312	10191
25°	10155	9724	9433
30°	9700	8948	8470
35°	9134	8045	7391
40°	8449	7075	6293
45°	7626	6150	5304
50°	6831	5364	4417
55°	5956	4714	3761
60°	5220	4234	3295
65°	4575	3864	2938
70°	4098	3580	2606
75°	3590	3280	2256
80°	3013	2846	1928
85°	2001	2358	1593



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.0	2.9
10°-20°	329.6	9.0
20°-30°	513.3	14.1
30°-40°	590.2	16.2
40°-50°	552.9	15.2
50°-60°	465.1	12.8
60°-70°	380.9	10.4
70°-80°	296.6	8.1
80°-90°	191.2	5.2
90°-100°	117.7	3.2
100°-110°	73.2	2.0
110°-120°	24.0	0.7
120°-130°	3.3	0.1
130°-140°	1.5	0.0
140°-150°	0.5	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	948.9	26.0
0°-40°	1539.1	42.2
0°-60°	2557.1	70.1
0°-90°	3425.8	94.0
90°-120°	214.9	5.9
90°-150°	220.2	6.0
90°-180°	220.0	6.0
0°-180°	3646.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1037	1037	1037	1037	1037	
5°	1039	1060	1096	1132	1136	99
15°	988	1099	1188	1255	1264	278
25°	884	1045	1153	1220	1226	407
35°	731	893	988	1028	1022	456
45°	538	687	758	771	755	416
55°	350	502	566	556	534	316
65°	208	370	437	418	404	208
75°	110	282	337	304	290	117
85°	30	186	210	192	185	32
90°	2	129	158	146	142	2
95°	0	98	138	132	128	0
105°	0	20	95	110	109	0
115°	0	14	9	44	68	0
125°	0	8	6	0	0	0
135°	0	4	4	0	0	0
145°	0	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°	1037.2	1037.2	1037.2	1037.2	1037.2
2.5°	1044.8	1046.9	1055.0	1076.1	1071.8
5°	1038.8	1060.4	1096.1	1131.8	1135.6
7.5°	1031.2	1078.8	1132.4	1177.8	1181.6
10°	1019.9	1091.3	1158.9	1214.0	1218.9
12.5°	1006.4	1099.4	1179.4	1240.0	1244.8
15°	988.5	1099.4	1188.1	1254.6	1263.8
17.5°	966.3	1095.0	1192.9	1262.7	1271.3
20°	943.6	1084.8	1187.5	1259.4	1267.5
22.5°	916.1	1068.5	1174.5	1244.8	1254.6
25°	884.1	1045.3	1153.4	1220.0	1226.4
27.5°	851.7	1016.1	1122.6	1183.2	1188.1
30°	813.3	979.9	1084.2	1138.3	1140.5
32.5°	774.9	941.5	1041.0	1088.0	1086.4
35°	730.6	892.8	988.0	1028.5	1022.0
37.5°	684.6	845.8	930.1	963.1	956.6
40°	638.1	793.8	873.9	896.6	886.3
42.5°	587.8	739.8	817.6	832.2	819.8
45°	537.5	687.3	758.1	771.1	754.9
47.5°	491.0	635.4	704.1	706.2	690.6
50°	443.4	588.3	654.9	652.7	630.5
52.5°	394.8	542.9	608.4	602.9	580.2
55°	350.4	501.8	565.6	555.9	534.3
57.5°	311.5	464.0	528.9	513.7	495.9
60°	273.1	429.4	495.3	478.6	462.4
62.5°	240.1	396.9	464.5	447.2	433.2
65°	207.7	370.4	436.9	418.5	403.9
67.5°	180.6	343.9	412.1	391.5	377.5
70°	156.3	321.8	387.7	363.9	348.3
72.5°	132.5	302.3	364.5	332.6	319.0
75°	109.8	282.3	336.9	304.4	290.4
77.5°	90.3	263.9	305.5	274.7	263.4
80°	68.7	245.0	274.2	246.6	236.9
82.5°	48.7	217.9	243.3	218.5	211.4
85°	29.7	186.0	210.4	192.0	184.9
87.5°	13.0	153.6	181.2	166.0	161.1
90°	1.6	129.2	158.4	146.0	141.7
92.5°	0.5	113.6	146.5	136.3	131.4
95°	0.0	97.9	138.4	131.9	127.6
97.5°	0.0	79.5	130.9	128.2	123.8
100°	0.0	51.4	121.1	122.8	119.0
102.5°	0.0	21.6	109.8	116.8	113.6
105°	0.0	20.0	95.2	110.3	108.7
107.5°	0.0	18.4	75.2	101.7	100.6
110°	0.0	16.8	38.9	91.4	91.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	15.1	9.7	77.9	81.1
115°	0.0	13.5	9.2	44.3	67.6
117.5°	0.0	12.4	8.1	0.5	23.3
120°	0.0	10.8	7.6	0.5	0.0
122.5°	0.0	9.2	7.0	0.0	0.0
125°	0.0	8.1	6.5	0.0	0.0
127.5°	0.0	7.0	5.4	0.0	0.0
130°	0.0	5.9	4.9	0.0	0.0
132.5°	0.0	4.9	4.3	0.0	0.0
135°	0.0	3.8	3.8	0.0	0.0
137.5°	0.0	3.2	3.2	0.0	0.0
140°	0.0	2.2	2.7	0.0	0.0
142.5°	0.5	1.6	2.2	0.0	0.0
145°	0.5	1.1	1.6	0.0	0.0
147.5°	0.5	1.1	1.6	0.0	0.0
150°	0.5	0.5	1.1	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)