

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: P232616

Luminaire Tested: **4SKB1-LD5-3-N-UNV-L840-CD1-RS-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232616
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-LD5-3-N-UNV-L840-CD1-RS-U
Description: METALUX SKYBAR 4' WAVESTREAM STRIP
WITH NARROW LENS AND REFLECTOR
Light Source: (196) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3194.0 lumens
Efficiency: N/A
Efficacy: 149.0 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

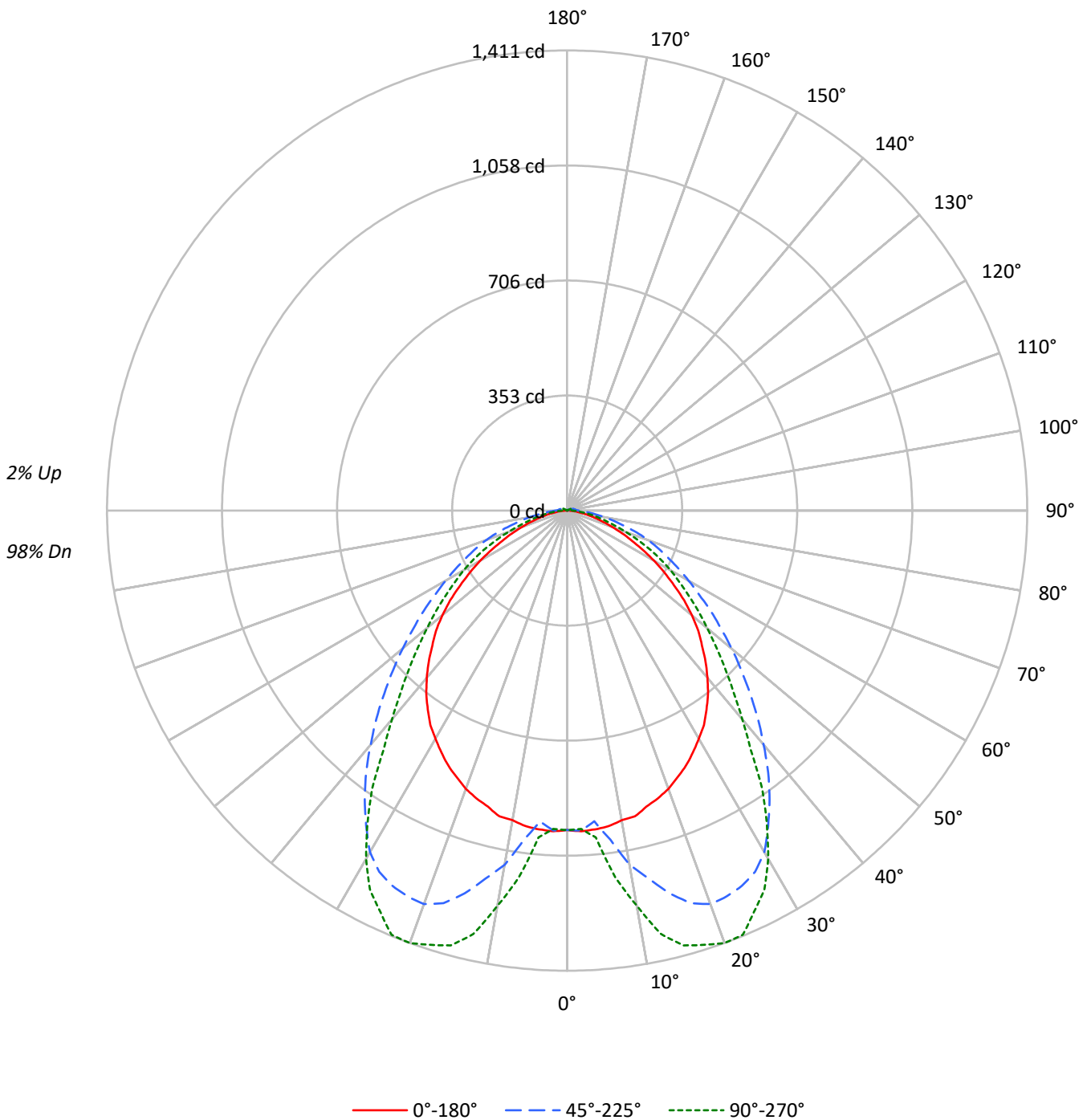
Input Watts (W): 21.44
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	10544	10544	10544
5°	10536	9599	9859
10°	10402	10433	11156
15°	10270	10964	11720
20°	10131	11151	11344
25°	9909	10701	10435
30°	9631	9981	9155
35°	9314	8811	7543
40°	8864	7590	5928
45°	8296	6431	4810
50°	7690	5397	3926
55°	6807	4479	3207
60°	5887	3677	2607
65°	4841	3008	2019
70°	3883	2430	1434
75°	2998	1772	955
80°	2171	1200	605
85°	1347	725	326



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.0	3.1
10°-20°	334.5	10.5
20°-30°	548.4	17.2
30°-40°	620.0	19.4
40°-50°	558.6	17.5
50°-60°	440.1	13.8
60°-70°	302.7	9.5
70°-80°	168.8	5.3
80°-90°	68.5	2.1
90°-100°	26.1	0.8
100°-110°	14.5	0.5
110°-120°	8.0	0.2
120°-130°	2.7	0.1
130°-140°	1.9	0.1
140°-150°	1.1	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	980.9	30.7
0°-40°	1600.9	50.1
0°-60°	2599.6	81.4
0°-90°	3139.6	98.3
90°-120°	48.6	1.5
90°-150°	54.3	1.7
90°-180°	54.0	1.7
0°-180°	3194.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	980	980	980	980	980	
5°	981	985	956	999	1006	93
15°	940	1011	1215	1356	1380	266
25°	863	1043	1269	1364	1357	397
35°	745	940	1082	1066	1043	465
45°	585	730	793	732	685	452
55°	400	505	537	490	456	359
65°	220	317	340	312	278	220
75°	92	193	182	146	123	99
85°	20	96	65	48	38	22
90°	1	62	36	24	16	1
95°	0	43	26	18	13	0
105°	0	11	20	17	13	0
115°	0	8	4	13	15	0
125°	0	6	3	3	0	0
135°	0	4	3	3	0	0
145°	0	2	2	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°	979.6	979.6	979.6	979.6	979.6
2.5°	984.3	982.6	981.7	990.0	977.0
5°	981.3	985.2	956.5	999.1	1005.6
7.5°	976.1	964.8	1018.2	1112.1	1134.7
10°	963.9	951.8	1102.1	1205.9	1230.7
12.5°	960.5	976.5	1155.9	1295.4	1330.1
15°	939.6	1011.3	1215.0	1355.8	1380.5
17.5°	925.3	1036.0	1262.4	1378.8	1396.2
20°	907.9	1043.4	1284.1	1391.8	1410.9
22.5°	884.9	1050.8	1280.2	1392.2	1407.9
25°	862.7	1043.0	1269.3	1363.6	1356.6
27.5°	835.8	1025.6	1248.5	1320.1	1310.1
30°	807.5	1006.9	1209.4	1249.8	1232.8
32.5°	780.2	979.1	1146.8	1159.0	1139.4
35°	745.0	939.6	1082.1	1066.4	1043.0
37.5°	709.4	893.1	1013.0	971.8	924.8
40°	669.4	840.6	937.4	889.2	834.9
42.5°	628.1	784.5	865.8	807.1	755.0
45°	584.7	730.2	792.8	732.4	684.6
47.5°	545.6	675.1	724.1	662.0	620.3
50°	499.1	617.7	659.0	599.0	560.4
52.5°	452.2	562.5	594.3	541.7	506.5
55°	400.5	505.2	537.4	490.4	455.7
57.5°	353.2	454.4	479.6	442.7	407.5
60°	308.0	403.6	430.1	394.9	365.8
62.5°	261.5	359.7	384.9	354.0	321.5
65°	219.8	317.1	340.1	311.9	277.6
67.5°	182.9	281.1	301.9	264.1	231.5
70°	148.1	248.9	263.2	221.1	191.6
72.5°	117.3	218.9	223.7	179.8	153.8
75°	91.7	193.3	182.0	145.5	122.9
77.5°	68.2	170.7	146.8	115.6	96.4
80°	49.5	148.1	115.6	88.2	74.3
82.5°	34.3	122.1	88.6	66.5	54.7
85°	20.0	96.4	64.7	48.2	37.8
87.5°	7.4	78.2	47.3	32.6	25.2
90°	0.9	61.7	35.6	23.5	16.5
92.5°	0.4	52.1	29.5	19.5	13.5
95°	0.0	43.0	26.5	17.8	12.6
97.5°	0.0	33.9	24.3	17.4	12.6
100°	0.0	22.2	22.6	16.5	12.2
102.5°	0.0	12.6	21.3	16.5	12.6
105°	0.0	10.9	19.5	16.9	13.0
107.5°	0.0	10.0	17.4	17.8	13.9
110°	0.0	9.6	11.3	18.2	14.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	8.7	4.3	18.7	15.6
115°	0.0	8.3	3.5	13.0	14.8
117.5°	0.0	7.8	3.5	9.1	9.6
120°	0.4	7.0	3.5	2.6	2.6
122.5°	0.4	6.5	3.0	2.6	0.0
125°	0.4	6.1	3.0	2.6	0.0
127.5°	0.4	5.2	3.0	3.0	0.0
130°	0.4	4.8	3.0	2.6	0.0
132.5°	0.4	4.3	3.0	3.0	0.0
135°	0.4	3.5	3.0	3.0	0.0
137.5°	0.4	3.0	2.6	3.0	0.0
140°	0.4	2.6	2.6	3.0	0.0
142.5°	0.4	2.2	2.6	3.0	0.0
145°	0.4	1.7	2.2	2.6	0.0
147.5°	0.4	1.3	2.2	2.6	0.0
150°	0.4	1.3	1.7	2.6	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)