

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: P232559

Luminaire Tested: **8SKB1-LD5-16-N-UNV-L840-CD2-RS-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232559
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: 8SKB1-LD5-16-N-UNV-L840-CD2-RS-U
Description: METALUX SKYBAR 8' WAVESTREAM STRIP
WITH NARROW LENS AND REFLECTOR
Light Source: (476) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17102.1 lumens
Efficiency: N/A
Efficacy: 131.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.5 / 1.49
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.29')
CIE Type: Direct

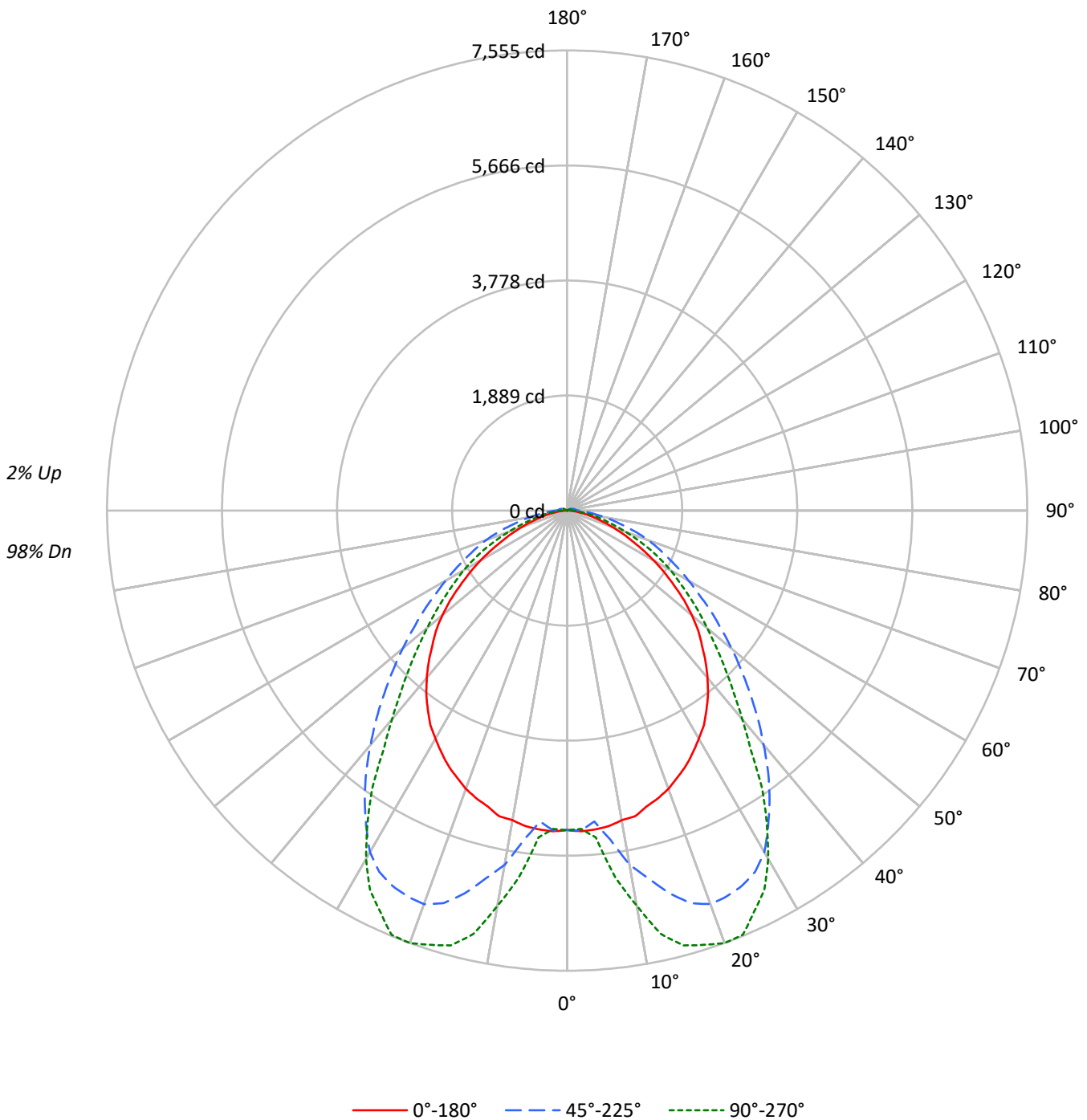
Input Watts (W): 130.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	28228	28228	28228
5°	28296	25753	26396
10°	28026	28042	29867
15°	27761	29519	31377
20°	27477	30068	30371
25°	26972	28896	27937
30°	26317	26987	24512
35°	25556	23856	20194
40°	24434	20576	15871
45°	22990	17457	12877
50°	21445	14670	10510
55°	19126	12188	8587
60°	16696	10020	6979
65°	13901	8211	5405
70°	11345	6646	3838
75°	8983	4854	2556
80°	6811	3292	1618
85°	4664	1996	872



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	524.8	3.1
10°-20°	1790.8	10.5
20°-30°	2936.6	17.2
30°-40°	3319.6	19.4
40°-50°	2990.9	17.5
50°-60°	2356.6	13.8
60°-70°	1620.9	9.5
70°-80°	903.8	5.3
80°-90°	366.8	2.1
90°-100°	139.6	0.8
100°-110°	77.8	0.5
110°-120°	42.6	0.2
120°-130°	14.6	0.1
130°-140°	10.1	0.1
140°-150°	6.0	0.0
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	5252.3	30.7
0°-40°	8571.9	50.1
0°-60°	13919.4	81.4
0°-90°	16810.8	98.3
90°-120°	260.0	1.5
90°-150°	290.7	1.7
90°-180°	291.0	1.7
0°-180°	17102.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5245	5245	5245	5245	5245	
5°	5254	5275	5122	5350	5385	499
15°	5031	5415	6506	7259	7392	1422
25°	4619	5585	6796	7301	7264	2125
35°	3989	5031	5794	5710	5585	2491
45°	3131	3910	4245	3922	3666	2419
55°	2144	2705	2877	2626	2440	1924
65°	1177	1698	1821	1670	1486	1180
75°	491	1035	975	779	658	530
85°	107	516	347	258	202	120
90°	5	330	191	126	88	7
95°	0	230	142	95	68	0
105°	0	58	105	91	70	0
115°	0	44	19	70	79	0
125°	2	33	16	14	0	2
135°	2	19	16	16	0	2
145°	2	9	12	14	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°	5245.0	5245.0	5245.0	5245.0	5245.0
2.5°	5270.6	5261.3	5256.7	5300.8	5231.1
5°	5254.3	5275.3	5121.7	5349.7	5384.6
7.5°	5226.4	5165.9	5452.0	5954.4	6075.4
10°	5161.3	5096.2	5900.9	6456.8	6589.4
12.5°	5142.7	5228.7	6189.4	6936.0	7122.1
15°	5031.0	5414.8	6505.7	7259.3	7391.9
17.5°	4954.3	5547.4	6759.2	7382.6	7475.6
20°	4861.2	5586.9	6875.5	7452.4	7554.7
22.5°	4738.0	5626.5	6854.6	7454.7	7538.4
25°	4619.3	5584.6	6796.4	7301.2	7264.0
27.5°	4475.1	5491.6	6684.8	7068.6	7015.1
30°	4323.9	5391.6	6475.5	6691.8	6601.1
32.5°	4177.4	5242.7	6140.5	6205.6	6101.0
35°	3989.0	5031.0	5793.9	5710.2	5584.6
37.5°	3798.3	4782.2	5424.1	5203.2	4952.0
40°	3584.3	4500.7	5019.4	4761.2	4470.5
42.5°	3363.3	4200.7	4635.6	4321.6	4042.5
45°	3130.7	3909.9	4244.9	3921.6	3665.7
47.5°	2921.4	3614.5	3877.4	3544.8	3321.5
50°	2672.5	3307.5	3528.5	3207.5	3000.5
52.5°	2421.3	3012.1	3181.9	2900.5	2712.1
55°	2144.5	2705.1	2877.2	2626.0	2439.9
57.5°	1891.0	2432.9	2567.9	2370.1	2181.7
60°	1649.1	2160.8	2302.7	2114.3	1958.5
62.5°	1400.2	1925.9	2060.8	1895.7	1721.2
65°	1176.9	1697.9	1821.2	1670.0	1486.3
67.5°	979.2	1504.9	1616.5	1414.2	1239.7
70°	793.2	1332.8	1409.5	1183.9	1025.7
72.5°	628.0	1172.3	1197.9	962.9	823.4
75°	490.8	1035.0	974.6	779.2	658.2
77.5°	365.2	914.1	786.2	618.7	516.4
80°	265.2	793.2	618.7	472.2	397.7
82.5°	183.8	653.6	474.5	355.9	293.1
85°	107.0	516.4	346.6	258.2	202.4
87.5°	39.5	418.7	253.5	174.4	134.9
90°	4.7	330.3	190.7	125.6	88.4
92.5°	2.3	279.1	158.2	104.7	72.1
95°	0.0	230.3	141.9	95.4	67.5
97.5°	0.0	181.4	130.3	93.0	67.5
100°	0.0	118.6	120.9	88.4	65.1
102.5°	0.0	67.5	114.0	88.4	67.5
105°	0.0	58.1	104.7	90.7	69.8
107.5°	0.0	53.5	93.0	95.4	74.4
110°	0.0	51.2	60.5	97.7	79.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	46.5	23.3	100.0	83.7
115°	0.0	44.2	18.6	69.8	79.1
117.5°	0.0	41.9	18.6	48.8	51.2
120°	2.3	37.2	18.6	14.0	14.0
122.5°	2.3	34.9	16.3	14.0	0.0
125°	2.3	32.6	16.3	14.0	0.0
127.5°	2.3	27.9	16.3	16.3	0.0
130°	2.3	25.6	16.3	14.0	0.0
132.5°	2.3	23.3	16.3	16.3	0.0
135°	2.3	18.6	16.3	16.3	0.0
137.5°	2.3	16.3	14.0	16.3	0.0
140°	2.3	14.0	14.0	16.3	0.0
142.5°	2.3	11.6	14.0	16.3	0.0
145°	2.3	9.3	11.6	14.0	0.0
147.5°	2.3	7.0	11.6	14.0	0.0
150°	2.3	7.0	9.3	14.0	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)