

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: P232553

Luminaire Tested: **8SKB1-LD5-12-N-UNV-L840-CD2-RS-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232553
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-LD5-12-N-UNV-L840-CD2-RS-U
Description: METALUX SKYBAR 8' WAVESTREAM STRIP
WITH NARROW LENS AND REFLECTOR
Light Source: (392) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12801.0 lumens
Efficiency: N/A
Efficacy: 135.7 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

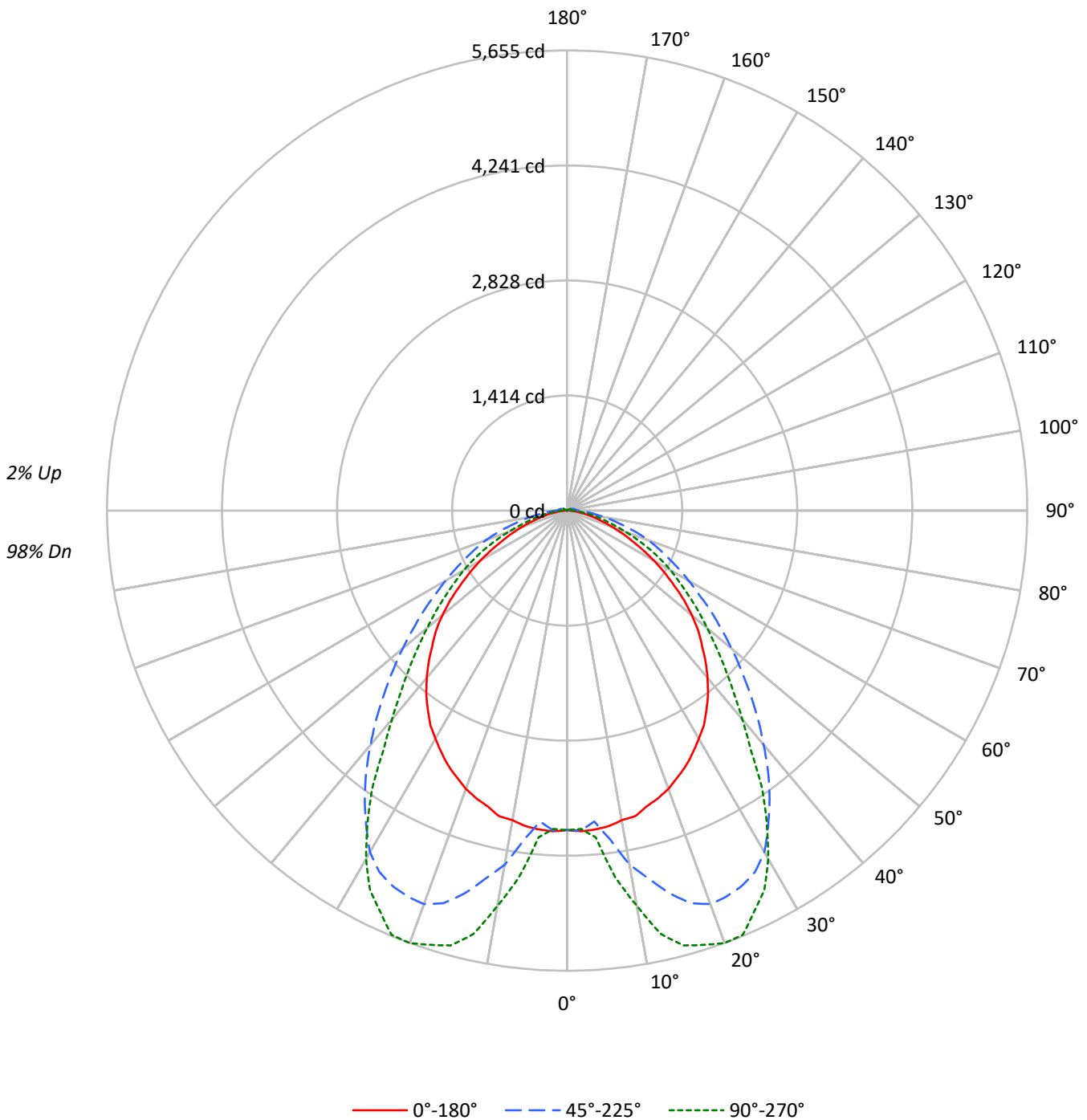
Input Watts (W): 94.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	21129	21129	21129
5°	21180	19277	19758
10°	20978	20990	22355
15°	20779	22096	23486
20°	20567	22506	22733
25°	20189	21629	20911
30°	19699	20199	18347
35°	19129	17856	15115
40°	18290	15401	11879
45°	17209	13067	9638
50°	16052	10980	7867
55°	14316	9123	6427
60°	12498	7500	5223
65°	10405	6146	4046
70°	8492	4974	2873
75°	6725	3633	1914
80°	5098	2464	1211
85°	3491	1494	653



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	392.8	3.1
10°-20°	1340.4	10.5
20°-30°	2198.1	17.2
30°-40°	2484.7	19.4
40°-50°	2238.7	17.5
50°-60°	1763.9	13.8
60°-70°	1213.2	9.5
70°-80°	676.5	5.3
80°-90°	274.6	2.1
90°-100°	104.5	0.8
100°-110°	58.2	0.5
110°-120°	31.9	0.2
120°-130°	10.9	0.1
130°-140°	7.6	0.1
140°-150°	4.5	0.0
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3931.4	30.7
0°-40°	6416.1	50.1
0°-60°	10418.8	81.4
0°-90°	12583.0	98.3
90°-120°	194.6	1.5
90°-150°	217.5	1.7
90°-180°	218.0	1.7
0°-180°	12801.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3926	3926	3926	3926	3926	
5°	3933	3949	3834	4004	4030	373
15°	3766	4053	4870	5434	5533	1065
25°	3458	4180	5087	5465	5437	1590
35°	2986	3766	4337	4274	4180	1864
45°	2343	2927	3177	2935	2744	1811
55°	1605	2025	2154	1966	1826	1440
65°	881	1271	1363	1250	1112	883
75°	367	775	730	583	493	397
85°	80	386	259	193	152	90
90°	4	247	143	94	66	5
95°	0	172	106	71	50	0
105°	0	44	78	68	52	0
115°	0	33	14	52	59	0
125°	2	24	12	10	0	2
135°	2	14	12	12	0	1
145°	2	7	9	10	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°	3925.9	3925.9	3925.9	3925.9	3925.9
2.5°	3945.1	3938.1	3934.7	3967.7	3915.5
5°	3932.9	3948.6	3833.7	4004.3	4030.4
7.5°	3912.0	3866.8	4080.9	4457.0	4547.5
10°	3863.3	3814.5	4416.9	4833.0	4932.2
12.5°	3849.3	3913.8	4632.8	5191.7	5330.9
15°	3765.8	4053.0	4869.6	5433.7	5532.9
17.5°	3708.3	4152.3	5059.3	5525.9	5595.6
20°	3638.7	4181.9	5146.4	5578.2	5654.8
22.5°	3546.4	4211.5	5130.7	5579.9	5642.6
25°	3457.6	4180.1	5087.2	5465.0	5437.1
27.5°	3349.7	4110.5	5003.6	5290.9	5250.8
30°	3236.5	4035.6	4846.9	5008.8	4940.9
32.5°	3126.8	3924.2	4596.2	4645.0	4566.6
35°	2985.8	3765.8	4336.8	4274.1	4180.1
37.5°	2843.0	3579.5	4060.0	3894.6	3706.6
40°	2682.9	3368.8	3757.1	3563.8	3346.2
42.5°	2517.5	3144.2	3469.8	3234.8	3025.9
45°	2343.4	2926.6	3177.3	2935.3	2743.8
47.5°	2186.7	2705.5	2902.2	2653.3	2486.1
50°	2000.4	2475.7	2641.1	2400.8	2245.9
52.5°	1812.4	2254.6	2381.7	2171.0	2030.0
55°	1605.2	2024.8	2153.6	1965.6	1826.3
57.5°	1415.4	1821.1	1922.1	1774.1	1633.1
60°	1234.4	1617.4	1723.6	1582.6	1465.9
62.5°	1048.1	1441.5	1542.5	1418.9	1288.3
65°	880.9	1270.9	1363.2	1250.0	1112.5
67.5°	733.0	1126.4	1210.0	1058.5	928.0
70°	593.7	997.6	1055.0	886.2	767.8
72.5°	470.1	877.5	896.6	720.8	616.3
75°	367.4	774.7	729.5	583.2	492.7
77.5°	273.3	684.2	588.5	463.1	386.5
80°	198.5	593.7	463.1	353.4	297.7
82.5°	137.5	489.2	355.2	266.4	219.4
85°	80.1	386.5	259.4	193.3	151.5
87.5°	29.6	313.4	189.8	130.6	101.0
90°	3.5	247.2	142.8	94.0	66.2
92.5°	1.7	208.9	118.4	78.3	54.0
95°	0.0	172.4	106.2	71.4	50.5
97.5°	0.0	135.8	97.5	69.6	50.5
100°	0.0	88.8	90.5	66.2	48.7
102.5°	0.0	50.5	85.3	66.2	50.5
105°	0.0	43.5	78.3	67.9	52.2
107.5°	0.0	40.0	69.6	71.4	55.7
110°	0.0	38.3	45.3	73.1	59.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	34.8	17.4	74.9	62.7
115°	0.0	33.1	13.9	52.2	59.2
117.5°	0.0	31.3	13.9	36.6	38.3
120°	1.7	27.9	13.9	10.4	10.4
122.5°	1.7	26.1	12.2	10.4	0.0
125°	1.7	24.4	12.2	10.4	0.0
127.5°	1.7	20.9	12.2	12.2	0.0
130°	1.7	19.2	12.2	10.4	0.0
132.5°	1.7	17.4	12.2	12.2	0.0
135°	1.7	13.9	12.2	12.2	0.0
137.5°	1.7	12.2	10.4	12.2	0.0
140°	1.7	10.4	10.4	12.2	0.0
142.5°	1.7	8.7	10.4	12.2	0.0
145°	1.7	7.0	8.7	10.4	0.0
147.5°	1.7	5.2	8.7	10.4	0.0
150°	1.7	5.2	7.0	10.4	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)