

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: P232625

Luminaire Tested: **4SKB1-LD5-6-N-UNV-L840-CD1-RS-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232625
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-LD5-6-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: 6400.0 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: 4' x H: 0.29')
CIE Type: Direct

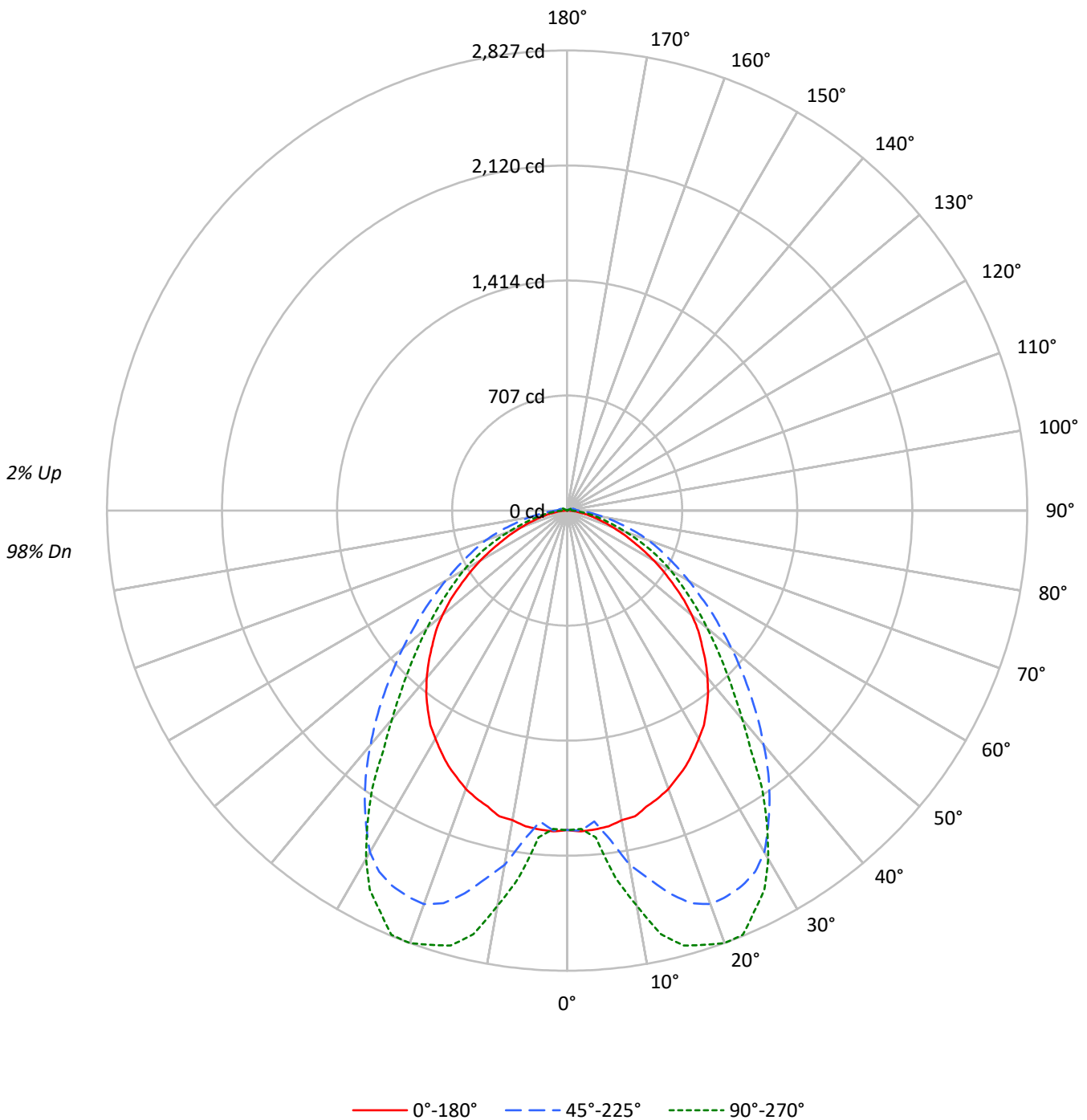
Input Watts (W): 47.16
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	21127	21127	21127
5°	21111	19235	19756
10°	20843	20906	22354
15°	20578	21970	23484
20°	20300	22344	22732
25°	19856	21443	20910
30°	19299	19999	18346
35°	18663	17655	15114
40°	17760	15208	11879
45°	16623	12886	9638
50°	15408	10814	7866
55°	13640	8973	6427
60°	11795	7367	5223
65°	9700	6027	4045
70°	7782	4871	2873
75°	6005	3551	1913
80°	4350	2403	1211
85°	2694	1454	652



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.4	3.1
10°-20°	670.2	10.5
20°-30°	1099.0	17.2
30°-40°	1242.3	19.4
40°-50°	1119.3	17.5
50°-60°	881.9	13.8
60°-70°	606.6	9.5
70°-80°	338.2	5.3
80°-90°	137.3	2.1
90°-100°	52.2	0.8
100°-110°	29.1	0.5
110°-120°	15.9	0.2
120°-130°	5.5	0.1
130°-140°	3.8	0.1
140°-150°	2.2	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1965.5	30.7
0°-40°	3207.8	50.1
0°-60°	5209.0	81.4
0°-90°	6291.0	98.3
90°-120°	97.3	1.5
90°-150°	108.8	1.7
90°-180°	109.0	1.7
0°-180°	6400.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1963	1963	1963	1963	1963	
5°	1966	1974	1917	2002	2015	187
15°	1883	2026	2435	2717	2766	532
25°	1729	2090	2543	2732	2718	795
35°	1493	1883	2168	2137	2090	932
45°	1172	1463	1588	1468	1372	905
55°	802	1012	1077	983	913	720
65°	440	635	682	625	556	442
75°	184	387	365	292	246	198
85°	40	193	130	97	76	45
90°	2	124	71	47	33	3
95°	0	86	53	36	25	0
105°	0	22	39	34	26	0
115°	0	16	7	26	30	0
125°	1	12	6	5	0	1
135°	1	7	6	6	0	1
145°	1	4	4	5	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°	1962.8	1962.8	1962.8	1962.8	1962.8
2.5°	1972.4	1968.9	1967.2	1983.7	1957.6
5°	1966.3	1974.1	1916.7	2002.0	2015.0
7.5°	1955.9	1933.2	2040.3	2228.3	2273.6
10°	1931.5	1907.1	2208.3	2416.3	2465.9
12.5°	1924.5	1956.7	2316.2	2595.6	2665.3
15°	1882.7	2026.4	2434.6	2716.6	2766.2
17.5°	1854.0	2076.0	2529.5	2762.7	2797.6
20°	1819.2	2090.8	2573.0	2788.9	2827.2
22.5°	1773.1	2105.6	2565.2	2789.7	2821.1
25°	1728.7	2089.9	2543.4	2732.3	2718.4
27.5°	1674.7	2055.1	2501.6	2645.2	2625.2
30°	1618.1	2017.7	2423.3	2504.2	2470.3
32.5°	1563.3	1962.0	2297.9	2322.3	2283.1
35°	1492.8	1882.7	2168.2	2136.9	2089.9
37.5°	1421.4	1789.6	2029.8	1947.2	1853.1
40°	1341.3	1684.3	1878.4	1781.8	1673.0
42.5°	1258.6	1572.0	1734.8	1617.3	1512.8
45°	1171.6	1463.2	1588.5	1467.5	1371.8
47.5°	1093.3	1352.6	1451.0	1326.5	1243.0
50°	1000.1	1237.8	1320.4	1200.3	1122.9
52.5°	906.1	1127.2	1190.7	1085.4	1014.9
55°	802.5	1012.3	1076.7	982.7	913.1
57.5°	707.7	910.5	961.0	887.0	816.5
60°	617.1	808.6	861.7	791.2	732.9
62.5°	524.0	720.7	771.2	709.4	644.1
65°	440.4	635.4	681.5	625.0	556.2
67.5°	366.5	563.2	604.9	529.2	463.9
70°	296.8	498.8	527.5	443.0	383.9
72.5°	235.0	438.7	448.3	360.4	308.1
75°	183.7	387.3	364.7	291.6	246.3
77.5°	136.7	342.1	294.2	231.5	193.2
80°	99.2	296.8	231.5	176.7	148.8
82.5°	68.8	244.6	177.6	133.2	109.7
85°	40.0	193.2	129.7	96.6	75.7
87.5°	14.8	156.7	94.9	65.3	50.5
90°	1.7	123.6	71.4	47.0	33.1
92.5°	0.9	104.5	59.2	39.2	27.0
95°	0.0	86.2	53.1	35.7	25.2
97.5°	0.0	67.9	48.7	34.8	25.2
100°	0.0	44.4	45.3	33.1	24.4
102.5°	0.0	25.2	42.7	33.1	25.2
105°	0.0	21.8	39.2	33.9	26.1
107.5°	0.0	20.0	34.8	35.7	27.9
110°	0.0	19.1	22.6	36.6	29.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	17.4	8.7	37.4	31.3
115°	0.0	16.5	7.0	26.1	29.6
117.5°	0.0	15.7	7.0	18.3	19.1
120°	0.9	13.9	7.0	5.2	5.2
122.5°	0.9	13.1	6.1	5.2	0.0
125°	0.9	12.2	6.1	5.2	0.0
127.5°	0.9	10.4	6.1	6.1	0.0
130°	0.9	9.6	6.1	5.2	0.0
132.5°	0.9	8.7	6.1	6.1	0.0
135°	0.9	7.0	6.1	6.1	0.0
137.5°	0.9	6.1	5.2	6.1	0.0
140°	0.9	5.2	5.2	6.1	0.0
142.5°	0.9	4.4	5.2	6.1	0.0
145°	0.9	3.5	4.4	5.2	0.0
147.5°	0.9	2.6	4.4	5.2	0.0
150°	0.9	2.6	3.5	5.2	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)