

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: P232624

Luminaire Tested: **4SKB1-LD5-6-N-UNV-L835-CD1-RS-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232624
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-L835-CD1-RS-U
Description: METALUX SKYBAR 4' WAVESTREAM STRIP
WITH NARROW LENS AND REFLECTOR
Light Source: (196) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5984.0 lumens
Efficiency: N/A
Efficacy: 126.9 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

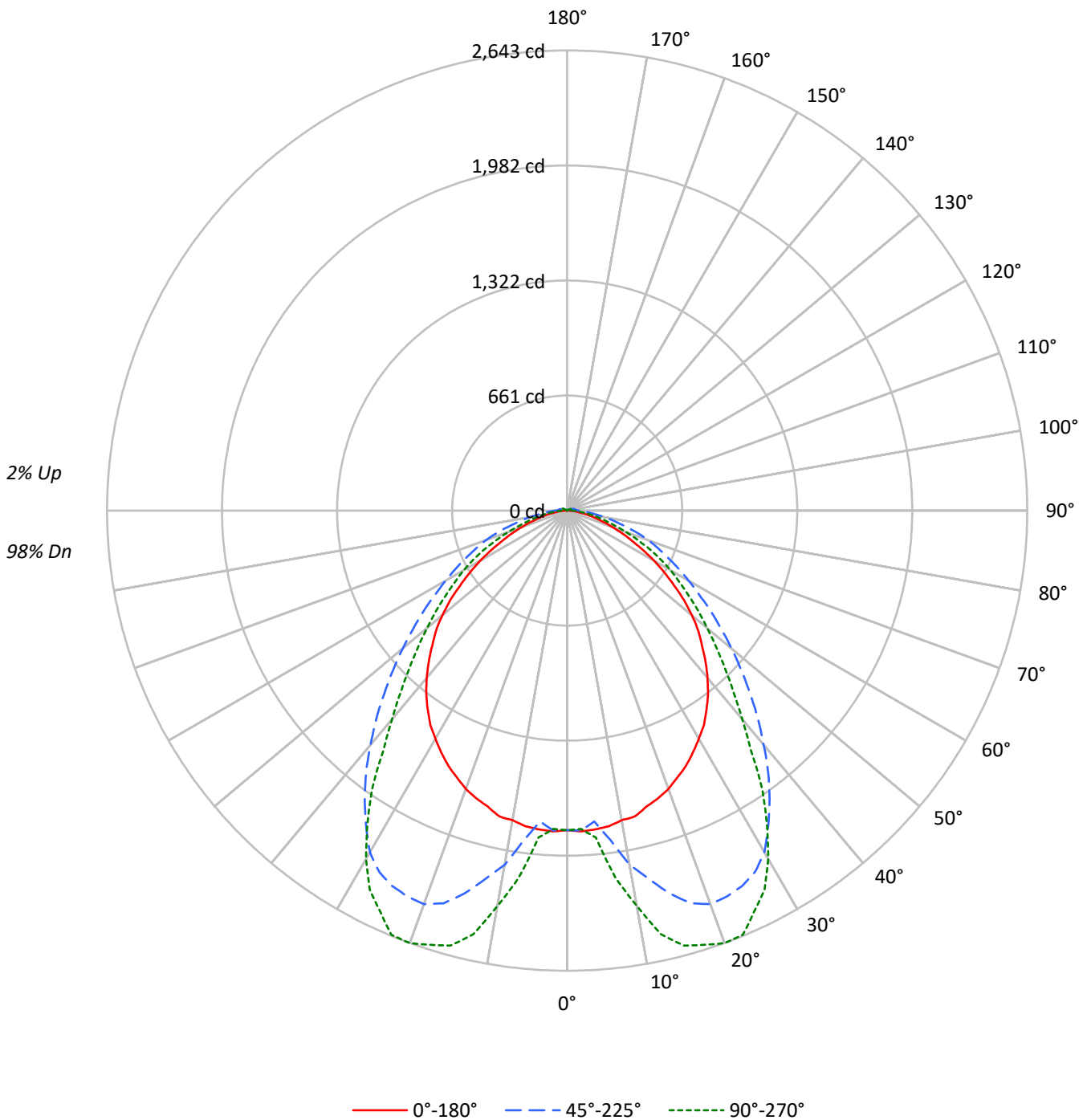
Input Watts (W): 47.16
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	19754	19754	19754
5°	19739	17984	18472
10°	19488	19546	20900
15°	19241	20542	21958
20°	18981	20891	21254
25°	18565	20049	19551
30°	18046	18699	17153
35°	17450	16508	14132
40°	16606	14220	11106
45°	15541	12049	9011
50°	14407	10111	7355
55°	12754	8390	6009
60°	11029	6888	4884
65°	9070	5636	3783
70°	7276	4554	2686
75°	5613	3320	1789
80°	4069	2247	1133
85°	2519	1360	610



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.6	3.1
10°-20°	626.6	10.5
20°-30°	1027.5	17.2
30°-40°	1161.5	19.4
40°-50°	1046.5	17.5
50°-60°	824.6	13.8
60°-70°	567.1	9.5
70°-80°	316.2	5.3
80°-90°	128.3	2.1
90°-100°	48.8	0.8
100°-110°	27.2	0.5
110°-120°	14.9	0.2
120°-130°	5.1	0.1
130°-140°	3.5	0.1
140°-150°	2.1	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1837.8	30.7
0°-40°	2999.3	50.1
0°-60°	4870.4	81.4
0°-90°	5882.1	98.3
90°-120°	91.0	1.5
90°-150°	101.7	1.7
90°-180°	102.0	1.7
0°-180°	5984.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1835	1835	1835	1835	1835	
5°	1838	1846	1792	1872	1884	175
15°	1760	1895	2276	2540	2586	498
25°	1616	1954	2378	2555	2542	744
35°	1396	1760	2027	1998	1954	872
45°	1095	1368	1485	1372	1283	846
55°	750	946	1007	919	854	673
65°	412	594	637	584	520	413
75°	172	362	341	273	230	186
85°	37	181	121	90	71	42
90°	2	116	67	44	31	2
95°	0	81	50	33	24	0
105°	0	20	37	32	24	0
115°	0	16	6	24	28	0
125°	1	11	6	5	0	1
135°	1	6	6	6	0	1
145°	1	3	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°	1835.2	1835.2	1835.2	1835.2	1835.2
2.5°	1844.2	1840.9	1839.3	1854.8	1830.4
5°	1838.5	1845.8	1792.1	1871.9	1884.1
7.5°	1828.7	1807.6	1907.7	2083.5	2125.8
10°	1805.9	1783.2	2064.7	2259.3	2305.6
12.5°	1799.4	1829.5	2165.7	2426.9	2492.0
15°	1760.4	1894.6	2276.3	2540.0	2586.4
17.5°	1733.5	1941.0	2365.1	2583.2	2615.7
20°	1701.0	1954.9	2405.7	2607.6	2643.4
22.5°	1657.8	1968.7	2398.4	2608.4	2637.7
25°	1616.3	1954.1	2378.1	2554.7	2541.7
27.5°	1565.9	1921.5	2339.0	2473.3	2454.6
30°	1513.0	1886.5	2265.8	2341.5	2309.7
32.5°	1461.7	1834.4	2148.6	2171.4	2134.7
35°	1395.8	1760.4	2027.3	1998.0	1954.1
37.5°	1329.0	1673.3	1897.9	1820.6	1732.7
40°	1254.1	1574.8	1756.3	1666.0	1564.2
42.5°	1176.8	1469.8	1622.0	1512.1	1414.5
45°	1095.4	1368.1	1485.3	1372.2	1282.6
47.5°	1022.2	1264.7	1356.7	1240.3	1162.2
50°	935.1	1157.3	1234.6	1122.3	1049.9
52.5°	847.2	1053.9	1113.4	1014.9	949.0
55°	750.4	946.5	1006.7	918.8	853.7
57.5°	661.7	851.3	898.5	829.3	763.4
60°	577.0	756.1	805.7	739.8	685.3
62.5°	489.9	673.9	721.1	663.3	602.3
65°	411.8	594.1	637.2	584.3	520.1
67.5°	342.6	526.6	565.6	494.8	433.8
70°	277.5	466.3	493.2	414.3	358.9
72.5°	219.7	410.2	419.1	336.9	288.1
75°	171.7	362.2	341.0	272.6	230.3
77.5°	127.8	319.8	275.1	216.5	180.7
80°	92.8	277.5	216.5	165.2	139.2
82.5°	64.3	228.7	166.0	124.5	102.5
85°	37.4	180.7	121.3	90.3	70.8
87.5°	13.8	146.5	88.7	61.0	47.2
90°	1.6	115.6	66.7	43.9	30.9
92.5°	0.8	97.7	55.3	36.6	25.2
95°	0.0	80.6	49.6	33.4	23.6
97.5°	0.0	63.5	45.6	32.6	23.6
100°	0.0	41.5	42.3	30.9	22.8
102.5°	0.0	23.6	39.9	30.9	23.6
105°	0.0	20.3	36.6	31.7	24.4
107.5°	0.0	18.7	32.6	33.4	26.0
110°	0.0	17.9	21.2	34.2	27.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	16.3	8.1	35.0	29.3
115°	0.0	15.5	6.5	24.4	27.7
117.5°	0.0	14.6	6.5	17.1	17.9
120°	0.8	13.0	6.5	4.9	4.9
122.5°	0.8	12.2	5.7	4.9	0.0
125°	0.8	11.4	5.7	4.9	0.0
127.5°	0.8	9.8	5.7	5.7	0.0
130°	0.8	9.0	5.7	4.9	0.0
132.5°	0.8	8.1	5.7	5.7	0.0
135°	0.8	6.5	5.7	5.7	0.0
137.5°	0.8	5.7	4.9	5.7	0.0
140°	0.8	4.9	4.9	5.7	0.0
142.5°	0.8	4.1	4.9	5.7	0.0
145°	0.8	3.3	4.1	4.9	0.0
147.5°	0.8	2.4	4.1	4.9	0.0
150°	0.8	2.4	3.3	4.9	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)