

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: P232621

Luminaire Tested: **4SKB1-LD5-5-N-UNV-L835-CD1-RS-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232621
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-LD5-5-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: 5004.0 lumens
Efficiency: N/A
Efficacy: 131.7 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

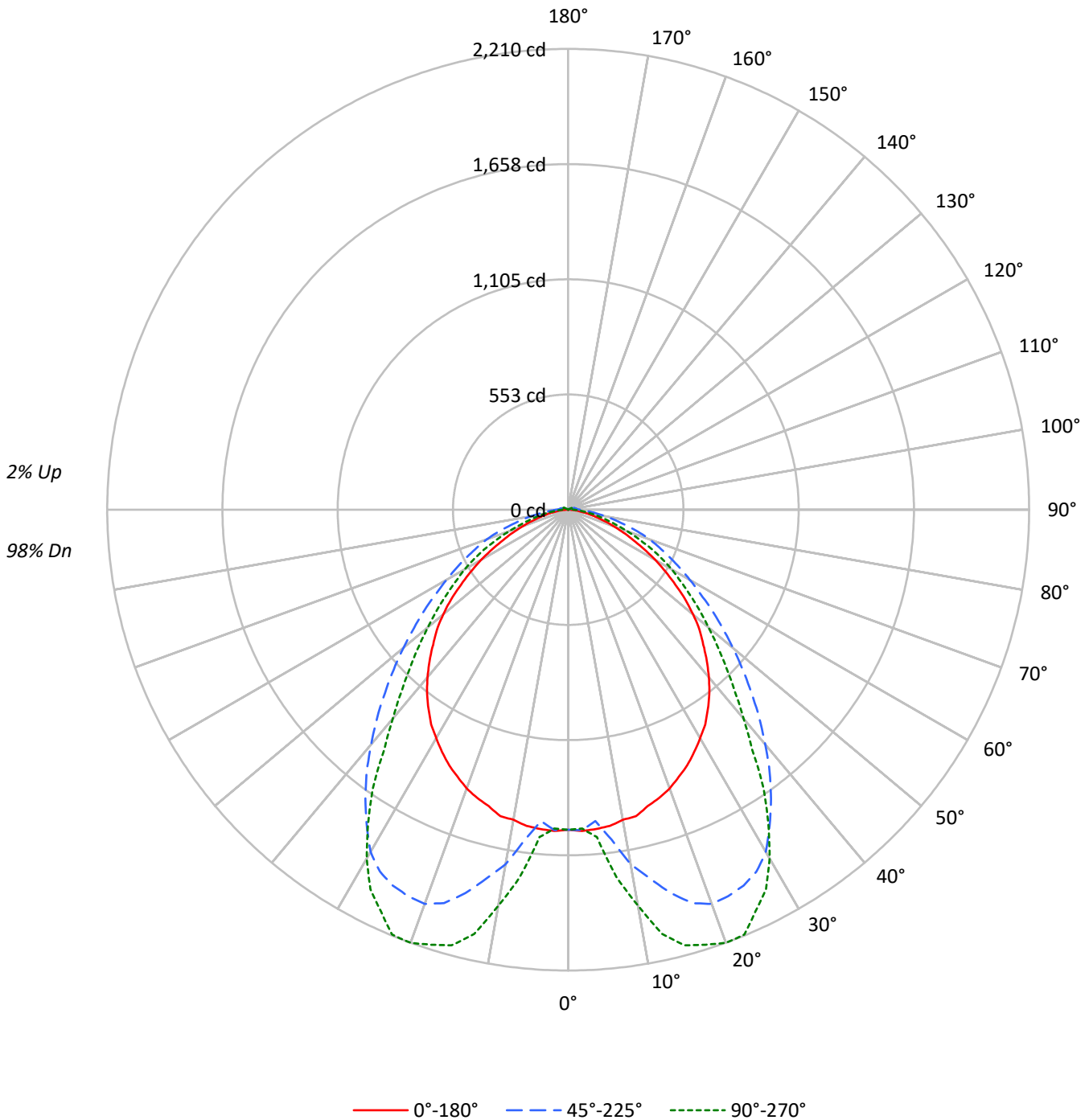
Input Watts (W): 38
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	16519	16519	16519
5°	16506	15039	15447
10°	16297	16345	17477
15°	16090	17177	18361
20°	15872	17471	17773
25°	15525	16765	16348
30°	15090	15636	14344
35°	14592	13804	11817
40°	13887	11891	9288
45°	12996	10075	7536
50°	12048	8455	6150
55°	10665	7016	5025
60°	9222	5760	4084
65°	7586	4713	3163
70°	6085	3808	2246
75°	4695	2777	1496
80°	3403	1879	947
85°	2108	1137	510



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.6	3.1
10°-20°	524.0	10.5
20°-30°	859.2	17.2
30°-40°	971.3	19.4
40°-50°	875.1	17.5
50°-60°	689.5	13.8
60°-70°	474.3	9.5
70°-80°	264.5	5.3
80°-90°	107.3	2.1
90°-100°	40.8	0.8
100°-110°	22.8	0.5
110°-120°	12.5	0.2
120°-130°	4.3	0.1
130°-140°	3.0	0.1
140°-150°	1.8	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1536.8	30.7
0°-40°	2508.1	50.1
0°-60°	4072.8	81.4
0°-90°	4918.8	98.3
90°-120°	76.1	1.5
90°-150°	85.1	1.7
90°-180°	85.0	1.7
0°-180°	5004.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1535	1535	1535	1535	1535	
5°	1537	1544	1499	1565	1576	146
15°	1472	1584	1904	2124	2163	416
25°	1352	1634	1989	2136	2125	622
35°	1167	1472	1695	1671	1634	729
45°	916	1144	1242	1147	1073	708
55°	628	792	842	768	714	563
65°	344	497	533	489	435	345
75°	144	303	285	228	193	155
85°	31	151	101	76	59	35
90°	1	97	56	37	26	2
95°	0	67	42	28	20	0
105°	0	17	31	26	20	0
115°	0	13	5	20	23	0
125°	1	10	5	4	0	1
135°	1	5	5	5	0	1
145°	1	3	3	4	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°	1534.7	1534.7	1534.7	1534.7	1534.7
2.5°	1542.2	1539.4	1538.1	1551.0	1530.6
5°	1537.4	1543.5	1498.6	1565.3	1575.5
7.5°	1529.2	1511.5	1595.3	1742.3	1777.6
10°	1510.2	1491.1	1726.6	1889.3	1928.0
12.5°	1504.7	1529.9	1811.0	2029.5	2083.9
15°	1472.1	1584.4	1903.5	2124.1	2162.8
17.5°	1449.6	1623.2	1977.7	2160.1	2187.3
20°	1422.4	1634.7	2011.8	2180.5	2210.5
22.5°	1386.3	1646.3	2005.6	2181.2	2205.7
25°	1351.6	1634.0	1988.6	2136.3	2125.4
27.5°	1309.4	1606.8	1956.0	2068.2	2052.6
30°	1265.2	1577.6	1894.7	1958.0	1931.5
32.5°	1222.3	1534.0	1796.7	1815.8	1785.1
35°	1167.2	1472.1	1695.3	1670.8	1634.0
37.5°	1111.4	1399.2	1587.1	1522.4	1448.9
40°	1048.8	1316.9	1468.7	1393.1	1308.1
42.5°	984.1	1229.1	1356.4	1264.5	1182.8
45°	916.0	1144.0	1242.0	1147.4	1072.6
47.5°	854.8	1057.6	1134.5	1037.2	971.9
50°	782.0	967.8	1032.4	938.5	877.9
52.5°	708.5	881.3	931.0	848.7	793.5
55°	627.5	791.5	841.9	768.4	713.9
57.5°	553.3	711.9	751.3	693.5	638.4
60°	482.5	632.2	673.8	618.6	573.0
62.5°	409.7	563.5	603.0	554.7	503.6
65°	344.4	496.8	532.9	488.6	434.9
67.5°	286.5	440.3	473.0	413.8	362.7
70°	232.1	390.0	412.4	346.4	300.1
72.5°	183.8	343.0	350.5	281.8	240.9
75°	143.6	302.9	285.2	228.0	192.6
77.5°	106.8	267.5	230.0	181.0	151.1
80°	77.6	232.1	181.0	138.2	116.4
82.5°	53.8	191.2	138.8	104.1	85.8
85°	31.3	151.1	101.4	75.5	59.2
87.5°	11.6	122.5	74.2	51.0	39.5
90°	1.4	96.6	55.8	36.8	25.9
92.5°	0.7	81.7	46.3	30.6	21.1
95°	0.0	67.4	41.5	27.9	19.7
97.5°	0.0	53.1	38.1	27.2	19.7
100°	0.0	34.7	35.4	25.9	19.1
102.5°	0.0	19.7	33.3	25.9	19.7
105°	0.0	17.0	30.6	26.5	20.4
107.5°	0.0	15.7	27.2	27.9	21.8
110°	0.0	15.0	17.7	28.6	23.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	13.6	6.8	29.3	24.5
115°	0.0	12.9	5.4	20.4	23.1
117.5°	0.0	12.3	5.4	14.3	15.0
120°	0.7	10.9	5.4	4.1	4.1
122.5°	0.7	10.2	4.8	4.1	0.0
125°	0.7	9.5	4.8	4.1	0.0
127.5°	0.7	8.2	4.8	4.8	0.0
130°	0.7	7.5	4.8	4.1	0.0
132.5°	0.7	6.8	4.8	4.8	0.0
135°	0.7	5.4	4.8	4.8	0.0
137.5°	0.7	4.8	4.1	4.8	0.0
140°	0.7	4.1	4.1	4.8	0.0
142.5°	0.7	3.4	4.1	4.8	0.0
145°	0.7	2.7	3.4	4.1	0.0
147.5°	0.7	2.0	3.4	4.1	0.0
150°	0.7	2.0	2.7	4.1	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)