

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: P232543

Luminaire Tested: **8SKB1-LD5-6-N-UNV-L835-CD1-RS-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P232543  
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-LD5-6-N-UNV-L835-CD1-RS-U  
Description: METALUX SKYBAR 8' WAVESTREAM STRIP  
WITH NARROW LENS AND REFLECTOR  
Light Source: (392) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5973.0 lumens  
Efficiency: N/A  
Efficacy: 142.2 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

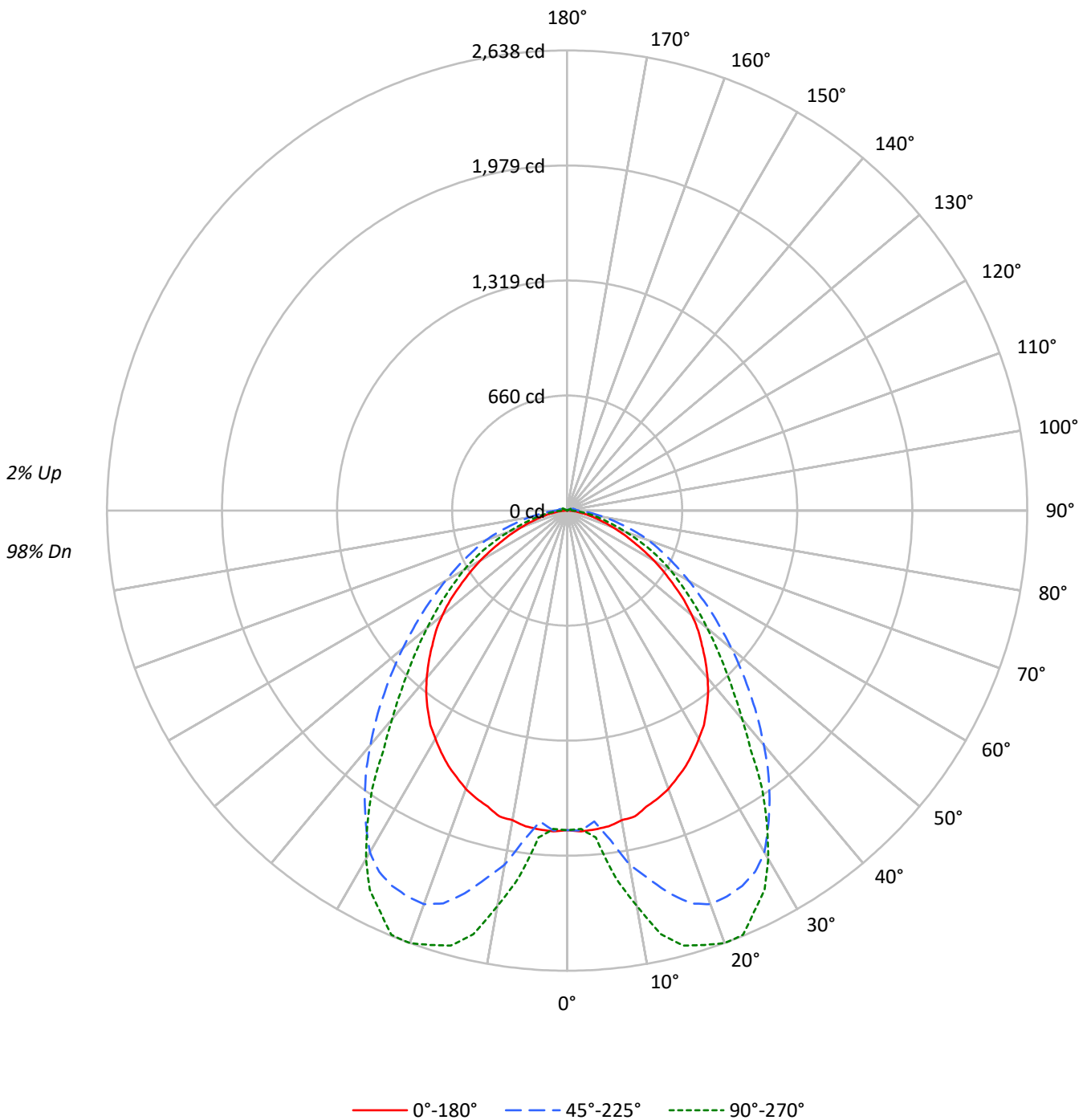
Input Watts (W): 42  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	9859	9859	9859
5°	9883	8995	9219
10°	9788	9794	10431
15°	9696	10310	10959
20°	9597	10501	10607
25°	9420	10092	9757
30°	9192	9425	8561
35°	8926	8332	7053
40°	8534	7186	5543
45°	8029	6097	4497
50°	7490	5123	3670
55°	6680	4257	2999
60°	5832	3500	2437
65°	4856	2868	1888
70°	3962	2321	1340
75°	3137	1695	893
80°	2378	1150	565
85°	1630	697	305



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	183.3	3.1
10°-20°	625.5	10.5
20°-30°	1025.6	17.2
30°-40°	1159.4	19.4
40°-50°	1044.6	17.5
50°-60°	823.1	13.8
60°-70°	566.1	9.5
70°-80°	315.7	5.3
80°-90°	128.1	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°	1834.4	30.7
0°-40°	2993.8	50.1
0°-60°	4861.4	81.4
0°-90°	5871.3	98.3
90°-120°	90.8	1.5
90°-150°	101.5	1.7
90°-180°	102.0	1.7
0°-180°	5973.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1832	1832	1832	1832	1832	
5°	1835	1842	1789	1868	1881	174
15°	1757	1891	2272	2535	2582	497
25°	1613	1950	2374	2550	2537	742
35°	1393	1757	2024	1994	1950	870
45°	1093	1366	1483	1370	1280	845
55°	749	945	1005	917	852	672
65°	411	593	636	583	519	412
75°	171	362	340	272	230	185
85°	37	180	121	90	71	42
90°	2	115	67	44	31	2
95°	0	80	50	33	24	0
105°	0	20	37	32	24	0
115°	0	15	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°	1831.9	1831.9	1831.9	1831.9	1831.9
2.5°	1840.8	1837.6	1835.9	1851.4	1827.0
5°	1835.1	1842.4	1788.8	1868.4	1880.6
7.5°	1825.4	1804.2	1904.2	2079.6	2121.9
10°	1802.6	1779.9	2060.9	2255.1	2301.4
12.5°	1796.1	1826.2	2161.7	2422.4	2487.4
15°	1757.1	1891.2	2272.2	2535.4	2581.7
17.5°	1730.3	1937.5	2360.7	2578.4	2610.9
20°	1697.8	1951.3	2401.3	2602.8	2638.5
22.5°	1654.8	1965.1	2394.0	2603.6	2632.8
25°	1613.3	1950.5	2373.7	2550.0	2537.0
27.5°	1563.0	1918.0	2334.7	2468.8	2450.1
30°	1510.2	1883.0	2261.6	2337.1	2305.5
32.5°	1459.0	1831.1	2144.6	2167.4	2130.8
35°	1393.2	1757.1	2023.6	1994.3	1950.5
37.5°	1326.6	1670.2	1894.4	1817.2	1729.5
40°	1251.8	1571.9	1753.1	1662.9	1561.3
42.5°	1174.7	1467.1	1619.0	1509.4	1411.9
45°	1093.4	1365.6	1482.6	1369.6	1280.3
47.5°	1020.3	1262.4	1354.2	1238.0	1160.0
50°	933.4	1155.2	1232.3	1120.2	1047.9
52.5°	845.7	1052.0	1111.3	1013.0	947.2
55°	749.0	944.8	1004.9	917.2	852.2
57.5°	660.4	849.7	896.8	827.8	762.0
60°	576.0	754.7	804.2	738.4	684.0
62.5°	489.0	672.6	719.7	662.1	601.1
65°	411.1	593.0	636.1	583.3	519.1
67.5°	342.0	525.6	564.6	493.9	433.0
70°	277.0	465.5	492.3	413.5	358.2
72.5°	219.3	409.4	418.4	336.3	287.6
75°	171.4	361.5	340.4	272.1	229.9
77.5°	127.5	319.3	274.6	216.1	180.3
80°	92.6	277.0	216.1	164.9	138.9
82.5°	64.2	228.3	165.7	124.3	102.4
85°	37.4	180.3	121.0	90.2	70.7
87.5°	13.8	146.2	88.5	60.9	47.1
90°	1.6	115.4	66.6	43.9	30.9
92.5°	0.8	97.5	55.2	36.6	25.2
95°	0.0	80.4	49.6	33.3	23.6
97.5°	0.0	63.4	45.5	32.5	23.6
100°	0.0	41.4	42.2	30.9	22.7
102.5°	0.0	23.6	39.8	30.9	23.6
105°	0.0	20.3	36.6	31.7	24.4
107.5°	0.0	18.7	32.5	33.3	26.0
110°	0.0	17.9	21.1	34.1	27.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	16.2	8.1	34.9	29.2
115°	0.0	15.4	6.5	24.4	27.6
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	9.7	5.7	5.7	0.0
130°	0.8	8.9	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	3.2	4.1	4.9	0.0
147.5°	0.8	2.4	4.1	4.9	0.0
150°	0.8	2.4	3.2	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)