

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: P232532

Luminaire Tested: **8SKB1-LD5-10-W-UNV-L840-CD1-RS-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P232532  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1709-317-7)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SKB1-LD5-10-W-UNV-L840-CD1-RS-U  
Description: METALUX SKYBAR 8' WAVESTREAM STRIP  
WITH WIDE LENS AND REFLECTOR  
Light Source: (392) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9815.0 lumens  
Efficiency: N/A  
Efficacy: 126.8 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.47 / 1.44  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.29')  
CIE Type: Direct

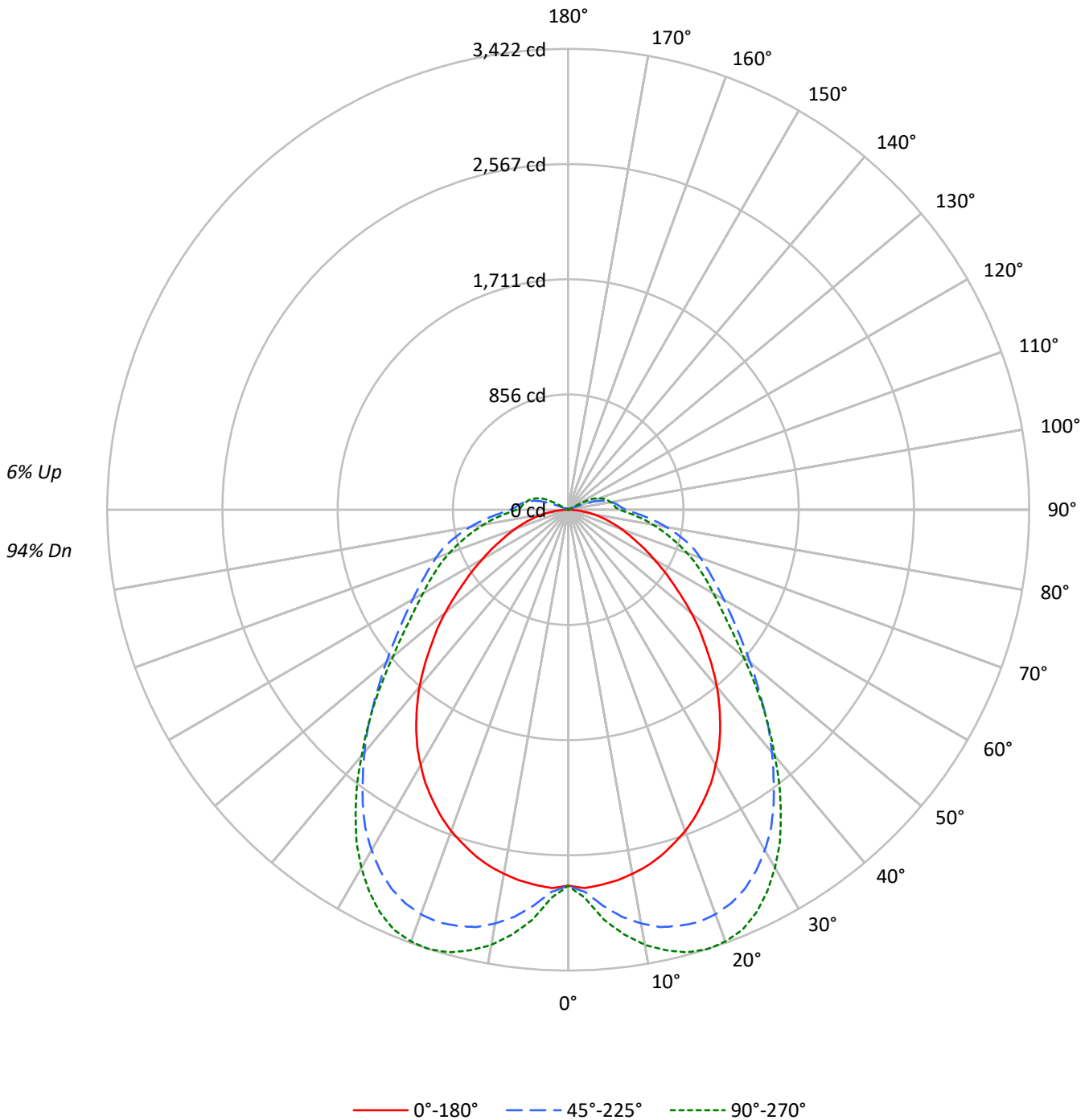
Input Watts (W): 77.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94
1	106	101	96	91	103	98	93	89	92	89	85	87	84	82	83	80	78	76
2	96	87	80	74	93	85	78	73	80	75	70	76	72	68	72	69	65	63
3	88	77	68	62	85	75	67	61	71	64	59	67	62	57	64	59	55	53
4	80	68	59	52	78	66	58	52	63	56	50	60	54	49	57	52	48	45
5	74	61	52	45	71	59	51	45	57	49	44	54	48	43	52	46	42	39
6	68	55	46	39	66	54	45	39	51	44	38	49	42	37	47	41	37	34
7	63	50	41	35	61	49	41	35	47	39	34	45	38	33	43	37	33	31
8	59	46	37	31	57	45	37	31	43	36	30	41	35	30	39	34	29	27
9	55	42	34	28	54	41	33	28	39	32	27	38	32	27	37	31	27	25
10	52	39	31	26	50	38	30	25	37	30	25	35	29	25	34	28	24	22

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	15027	15027	15027
5°	15060	14837	14986
10°	14908	14825	14872
15°	14684	14512	14441
20°	14358	13980	13718
25°	13898	13202	12698
30°	13326	12164	11400
35°	12600	10951	9949
40°	11710	9644	8470
45°	10626	8393	7139
50°	9578	7329	5945
55°	8413	6450	5062
60°	7443	5802	4435
65°	6603	5303	3954
70°	6017	4921	3508
75°	5409	4517	3036
80°	4749	3927	2594
85°	3491	3261	2145



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	285.3	2.9
10°-20°	887.2	9.0
20°-30°	1381.8	14.1
30°-40°	1588.8	16.2
40°-50°	1488.4	15.2
50°-60°	1252.0	12.8
60°-70°	1025.5	10.4
70°-80°	798.5	8.1
80°-90°	514.6	5.2
90°-100°	316.8	3.2
100°-110°	196.9	2.0
110°-120°	64.8	0.7
120°-130°	8.8	0.1
130°-140°	4.1	0.0
140°-150°	1.4	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2554.4	26.0
0°-40°	4143.1	42.2
0°-60°	6883.6	70.1
0°-90°	9222.1	94.0
90°-120°	578.4	5.9
90°-150°	592.8	6.0
90°-180°	593.0	6.0
0°-180°	9815.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2792	2792	2792	2792	2792	
5°	2796	2855	2951	3047	3057	265
15°	2661	2960	3198	3377	3402	749
25°	2380	2814	3105	3284	3302	1095
35°	1967	2403	2660	2769	2751	1227
45°	1447	1850	2041	2076	2032	1119
55°	943	1351	1523	1496	1438	850
65°	559	997	1176	1127	1087	561
75°	296	760	907	820	782	316
85°	80	501	566	517	498	87
90°	4	348	426	393	381	6
95°	0	264	373	355	344	0
105°	0	54	256	297	293	0
115°	0	36	25	119	182	0
125°	0	22	18	0	0	0
135°	0	10	10	0	0	0
145°	2	3	4	0	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°	2792.1	2792.1	2792.1	2792.1	2792.1
2.5°	2812.5	2818.3	2840.1	2896.9	2885.2
5°	2796.4	2854.7	2950.8	3046.8	3057.0
7.5°	2776.1	2904.2	3048.3	3170.6	3180.8
10°	2745.5	2937.7	3119.6	3268.1	3281.2
12.5°	2709.1	2959.5	3174.9	3338.0	3351.1
15°	2661.1	2959.5	3198.2	3377.3	3402.0
17.5°	2601.4	2947.8	3211.3	3399.1	3422.4
20°	2540.2	2920.2	3196.8	3390.4	3412.2
22.5°	2466.0	2876.5	3161.8	3351.1	3377.3
25°	2380.1	2813.9	3105.1	3284.1	3301.6
27.5°	2292.8	2735.3	3022.1	3185.1	3198.2
30°	2189.4	2637.8	2918.7	3064.3	3070.1
32.5°	2086.1	2534.4	2802.3	2928.9	2924.6
35°	1966.7	2403.4	2659.6	2768.8	2751.3
37.5°	1842.9	2276.8	2503.8	2592.6	2575.2
40°	1717.8	2137.0	2352.5	2413.6	2385.9
42.5°	1582.4	1991.4	2201.1	2240.4	2206.9
45°	1447.0	1850.2	2040.9	2075.9	2032.2
47.5°	1321.8	1710.5	1895.4	1901.2	1859.0
50°	1193.7	1583.8	1762.9	1757.1	1697.4
52.5°	1062.7	1461.5	1637.7	1623.1	1562.0
55°	943.3	1350.9	1522.7	1496.5	1438.3
57.5°	838.5	1249.0	1423.7	1382.9	1334.9
60°	735.1	1155.8	1333.4	1288.3	1244.6
62.5°	646.3	1068.5	1250.5	1203.9	1166.0
65°	559.0	997.2	1176.2	1126.7	1087.4
67.5°	486.2	925.8	1109.3	1053.9	1016.1
70°	420.7	866.2	1043.8	979.7	937.5
72.5°	356.7	813.8	981.2	895.3	858.9
75°	295.5	759.9	906.9	819.6	781.7
77.5°	243.1	710.4	822.5	739.5	708.9
80°	184.9	659.4	738.1	663.8	637.6
82.5°	131.0	586.7	655.1	588.1	569.2
85°	80.1	500.8	566.3	516.8	497.9
87.5°	34.9	413.4	487.7	446.9	433.8
90°	4.4	347.9	426.5	393.0	381.4
92.5°	1.5	305.7	394.5	366.8	353.7
95°	0.0	263.5	372.7	355.2	343.6
97.5°	0.0	214.0	352.3	345.0	333.4
100°	0.0	138.3	326.1	330.4	320.3
102.5°	0.0	58.2	295.5	314.4	305.7
105°	0.0	53.9	256.2	297.0	292.6
107.5°	0.0	49.5	202.3	273.7	270.8
110°	0.0	45.1	104.8	246.0	247.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	40.8	26.2	209.6	218.4
115°	0.0	36.4	24.7	119.4	182.0
117.5°	0.0	33.5	21.8	1.5	62.6
120°	0.0	29.1	20.4	1.5	0.0
122.5°	0.0	24.7	18.9	0.0	0.0
125°	0.0	21.8	17.5	0.0	0.0
127.5°	0.0	18.9	14.6	0.0	0.0
130°	0.0	16.0	13.1	0.0	0.0
132.5°	0.0	13.1	11.6	0.0	0.0
135°	0.0	10.2	10.2	0.0	0.0
137.5°	0.0	8.7	8.7	0.0	0.0
140°	0.0	5.8	7.3	0.0	0.0
142.5°	1.5	4.4	5.8	0.0	0.0
145°	1.5	2.9	4.4	0.0	0.0
147.5°	1.5	2.9	4.4	0.0	0.0
150°	1.5	1.5	2.9	0.0	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)