

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: P232534

Luminaire Tested: **8SKB1-LD5-12-W-UNV-L835-CD2-RS-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P232534  
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-LD5-12-W-UNV-L835-CD2-RS-U  
Description: METALUX SKYBAR 8' WAVESTREAM STRIP  
WITH WIDE LENS AND REFLECTOR  
Light Source: (392) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10976.0 lumens  
Efficiency: N/A  
Efficacy: 116.4 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

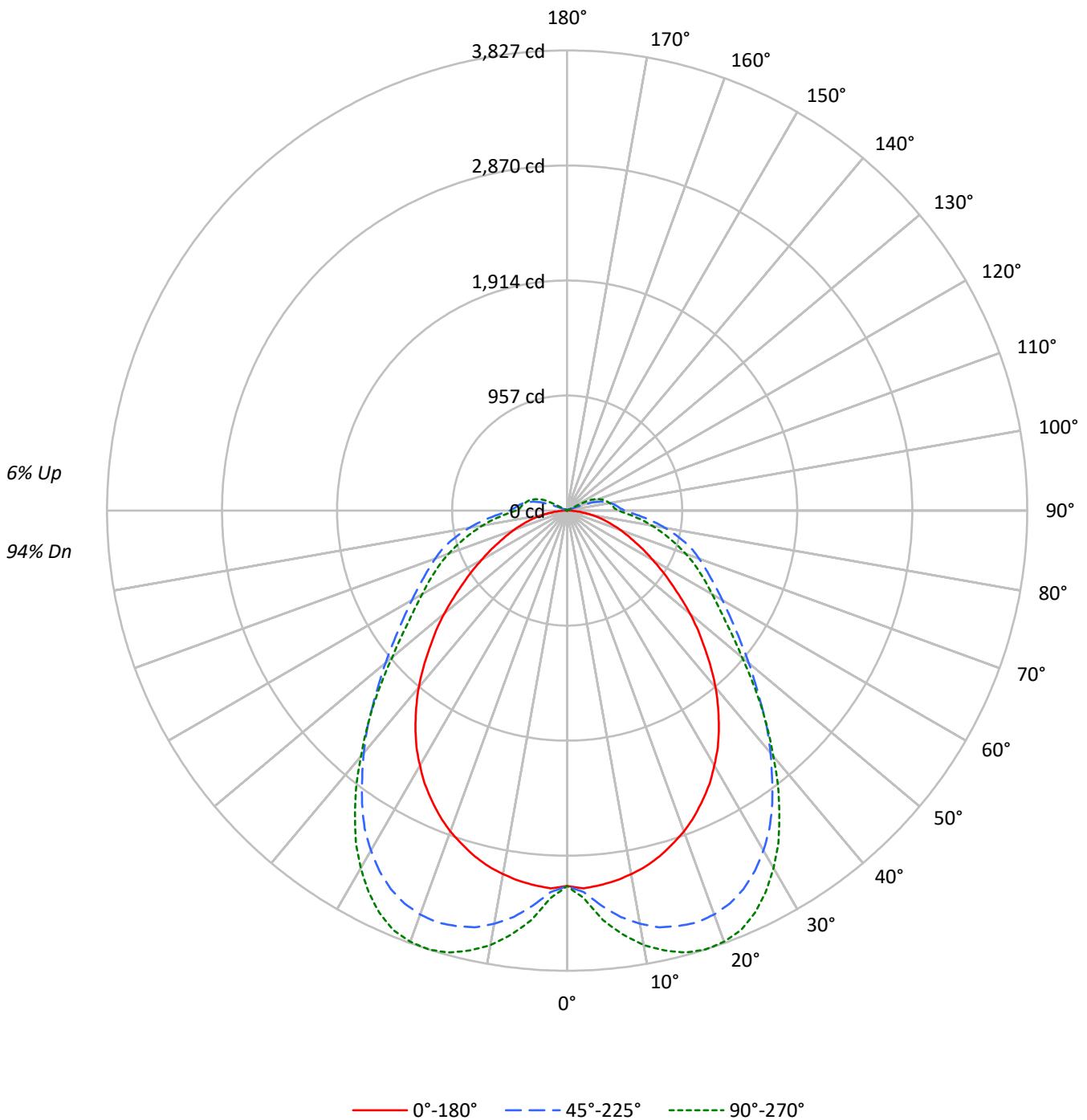
Input Watts (W): 94.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P232534

CATALOG NUMBER: 8SKB1-LD5-12-W-UNV-L835-CD2-RS-U

### Luminous Intensity Polar Plot





TEST NUMBER: P232534

CATALOG NUMBER: 8SKB1-LD5-12-W-UNV-L835-CD2-RS-U

**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°	16805	16805	16805
5°	16841	16592	16758
10°	16672	16578	16631
15°	16420	16228	16149
20°	16057	15634	15340
25°	15542	14763	14200
30°	14902	13603	12749
35°	14090	12246	11126
40°	13095	10784	9472
45°	11883	9386	7983
50°	10711	8196	6649
55°	9408	7213	5660
60°	8323	6489	4960
65°	7383	5931	4422
70°	6730	5503	3923
75°	6049	5051	3395
80°	5309	4392	2901
85°	3901	3647	2398



TEST NUMBER: P232534

CATALOG NUMBER: 8SKB1-LD5-12-W-UNV-L835-CD2-RS-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	319.1	2.9
10°-20°	992.2	9.0
20°-30°	1545.3	14.1
30°-40°	1776.7	16.2
40°-50°	1664.5	15.2
50°-60°	1400.1	12.8
60°-70°	1146.8	10.4
70°-80°	892.9	8.1
80°-90°	575.5	5.2
90°-100°	354.2	3.2
100°-110°	220.2	2.0
110°-120°	72.4	0.7
120°-130°	9.9	0.1
130°-140°	4.6	0.0
140°-150°	1.6	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2856.5	26.0
0°-40°	4633.2	42.2
0°-60°	7697.8	70.1
0°-90°	10313.0	94.0
90°-120°	646.9	5.9
90°-150°	662.9	6.0
90°-180°	663.0	6.0
0°-180°	10976.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3122	3122	3122	3122	3122	
5°	3127	3192	3300	3407	3419	297
15°	2976	3310	3576	3777	3804	838
25°	2662	3147	3472	3673	3692	1225
35°	2199	2688	2974	3096	3077	1372
45°	1618	2069	2282	2321	2273	1251
55°	1055	1511	1703	1674	1608	951
65°	625	1115	1315	1260	1216	628
75°	330	850	1014	916	874	353
85°	90	560	633	578	557	98
90°	5	389	477	440	426	7
95°	0	295	417	397	384	0
105°	0	60	286	332	327	0
115°	0	41	28	134	204	0
125°	0	24	20	0	0	0
135°	0	11	11	0	0	0
145°	2	3	5	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



TEST NUMBER: P232534

CATALOG NUMBER: 8SKB1-LD5-12-W-UNV-L835-CD2-RS-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3122.4	3122.4	3122.4	3122.4	3122.4
2.5°	3145.1	3151.7	3176.1	3239.6	3226.5
5°	3127.2	3192.4	3299.8	3407.2	3418.6
7.5°	3104.4	3247.7	3408.9	3545.6	3557.0
10°	3070.3	3285.1	3488.6	3654.7	3669.3
12.5°	3029.6	3309.6	3550.5	3732.8	3747.5
15°	2975.8	3309.6	3576.5	3776.8	3804.5
17.5°	2909.1	3296.5	3591.2	3801.2	3827.2
20°	2840.7	3265.6	3574.9	3791.4	3815.8
22.5°	2757.7	3216.8	3535.8	3747.5	3776.8
25°	2661.7	3146.8	3472.4	3672.6	3692.1
27.5°	2564.0	3058.9	3379.6	3561.9	3576.5
30°	2448.4	2949.8	3264.0	3426.8	3433.3
32.5°	2332.8	2834.2	3133.7	3275.4	3270.5
35°	2199.3	2687.7	2974.2	3096.3	3076.8
37.5°	2060.9	2546.1	2800.0	2899.3	2879.8
40°	1920.9	2389.8	2630.7	2699.1	2668.2
42.5°	1769.6	2227.0	2461.4	2505.4	2467.9
45°	1618.2	2069.1	2282.3	2321.4	2272.6
47.5°	1478.2	1912.8	2119.6	2126.1	2078.9
50°	1334.9	1771.2	1971.4	1964.9	1898.2
52.5°	1188.4	1634.4	1831.4	1815.1	1746.8
55°	1054.9	1510.7	1702.8	1673.5	1608.4
57.5°	937.7	1396.8	1592.1	1546.5	1492.8
60°	822.1	1292.6	1491.2	1440.7	1391.9
62.5°	722.8	1194.9	1398.4	1346.3	1304.0
65°	625.1	1115.1	1315.4	1260.0	1216.1
67.5°	543.7	1035.4	1240.5	1178.6	1136.3
70°	470.5	968.6	1167.2	1095.6	1048.4
72.5°	398.8	910.0	1097.2	1001.2	960.5
75°	330.5	849.8	1014.2	916.5	874.2
77.5°	271.9	794.4	919.8	827.0	792.8
80°	206.7	737.4	825.4	742.3	713.0
82.5°	146.5	656.1	732.6	657.7	636.5
85°	89.5	560.0	633.3	577.9	556.7
87.5°	39.1	462.3	545.4	499.8	485.1
90°	4.9	389.1	477.0	439.5	426.5
92.5°	1.6	341.9	441.2	410.2	395.6
95°	0.0	294.7	416.7	397.2	384.2
97.5°	0.0	239.3	394.0	385.8	372.8
100°	0.0	154.7	364.7	369.5	358.1
102.5°	0.0	65.1	330.5	351.6	341.9
105°	0.0	60.2	286.5	332.1	327.2
107.5°	0.0	55.3	226.3	306.0	302.8
110°	0.0	50.5	117.2	275.1	276.7



TEST NUMBER: P232534

CATALOG NUMBER: 8SKB1-LD5-12-W-UNV-L835-CD2-RS-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	45.6	29.3	234.4	244.2
115°	0.0	40.7	27.7	133.5	203.5
117.5°	0.0	37.4	24.4	1.6	70.0
120°	0.0	32.6	22.8	1.6	0.0
122.5°	0.0	27.7	21.2	0.0	0.0
125°	0.0	24.4	19.5	0.0	0.0
127.5°	0.0	21.2	16.3	0.0	0.0
130°	0.0	17.9	14.7	0.0	0.0
132.5°	0.0	14.7	13.0	0.0	0.0
135°	0.0	11.4	11.4	0.0	0.0
137.5°	0.0	9.8	9.8	0.0	0.0
140°	0.0	6.5	8.1	0.0	0.0
142.5°	1.6	4.9	6.5	0.0	0.0
145°	1.6	3.3	4.9	0.0	0.0
147.5°	1.6	3.3	4.9	0.0	0.0
150°	1.6	1.6	3.3	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)