

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: P232530

Luminaire Tested: **8SKB1-LD5-8-W-UNV-L850-CD1-RS-U**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P232530  
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-LD5-8-W-UNV-L850-CD1-RS-U  
Description: METALUX SKYBAR 8' WAVESTREAM STRIP  
WITH WIDE LENS AND REFLECTOR  
Light Source: (392) 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

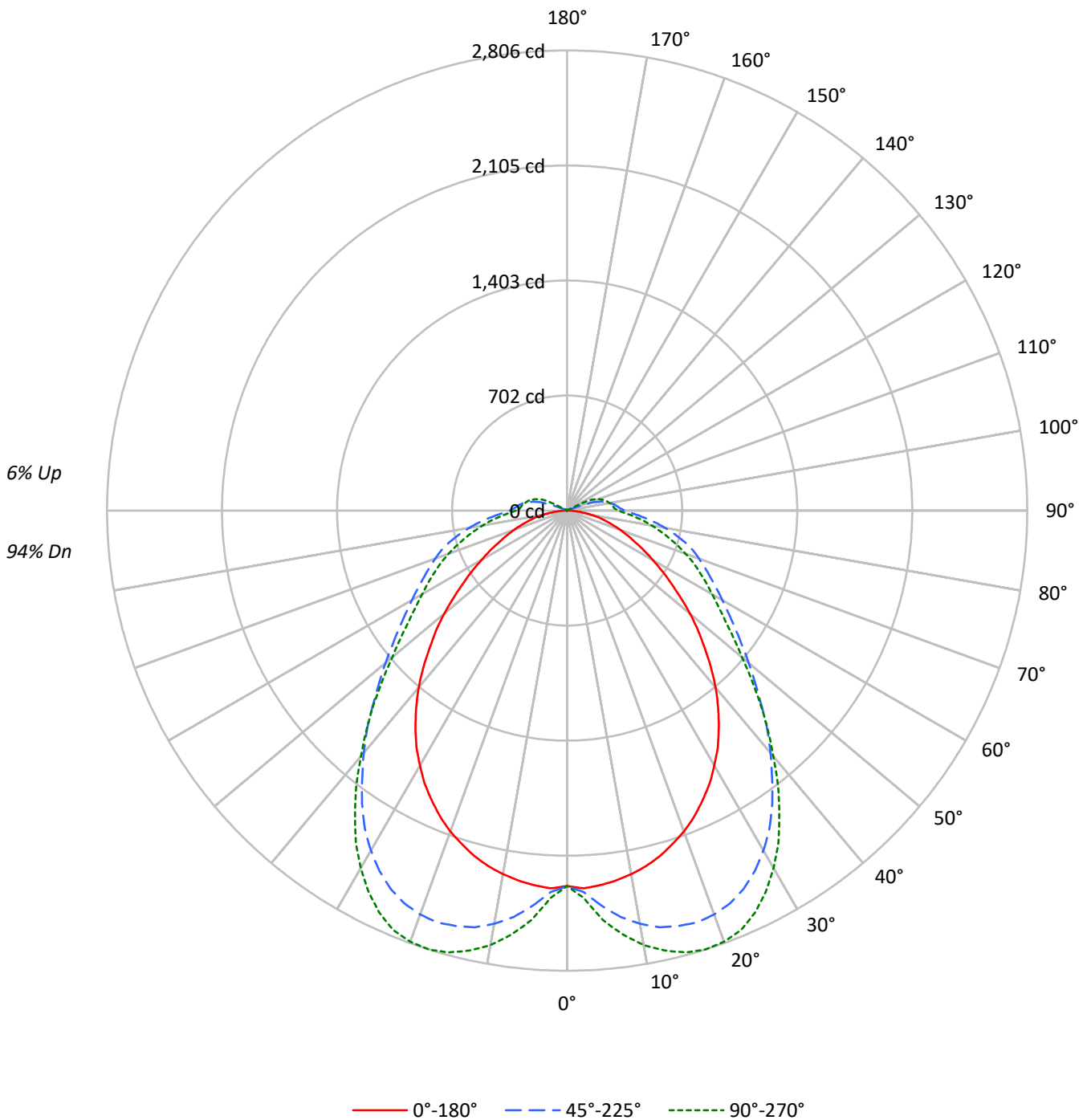
Lumens per Lamp: N/A  
Luminaire Lumens: 8047.0 lumens  
Efficiency: N/A  
Efficacy: 135.2 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.47 / 1.44  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.29')  
CIE Type: Direct

Input Watts (W): 59.5  
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°	12320	12320	12320
5°	12347	12164	12287
10°	12223	12154	12193
15°	12038	11898	11840
20°	11772	11462	11247
25°	11394	10823	10411
30°	10925	9973	9347
35°	10330	8978	8157
40°	9601	7906	6945
45°	8712	6881	5853
50°	7853	6009	4874
55°	6898	5288	4150
60°	6102	4757	3636
65°	5413	4348	3242
70°	4933	4035	2876
75°	4435	3704	2489
80°	3894	3220	2127
85°	2859	2673	1758



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	233.9	2.9
10°-20°	727.4	9.0
20°-30°	1132.9	14.1
30°-40°	1302.6	16.2
40°-50°	1220.3	15.2
50°-60°	1026.5	12.8
60°-70°	840.8	10.4
70°-80°	654.6	8.1
80°-90°	421.9	5.2
90°-100°	259.7	3.2
100°-110°	161.5	2.0
110°-120°	53.1	0.7
120°-130°	7.2	0.1
130°-140°	3.4	0.0
140°-150°	1.2	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2094.2	26.0
0°-40°	3396.8	42.2
0°-60°	5643.6	70.1
0°-90°	7560.9	94.0
90°-120°	474.2	5.9
90°-150°	486.0	6.0
90°-180°	486.0	6.0
0°-180°	8047.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2289	2289	2289	2289	2289	
5°	2293	2340	2419	2498	2506	218
15°	2182	2426	2622	2769	2789	614
25°	1951	2307	2546	2692	2707	898
35°	1612	1970	2180	2270	2256	1006
45°	1186	1517	1673	1702	1666	917
55°	773	1108	1248	1227	1179	697
65°	458	818	964	924	892	460
75°	242	623	744	672	641	259
85°	66	411	464	424	408	72
90°	4	285	350	322	313	5
95°	0	216	306	291	282	0
105°	0	44	210	244	240	0
115°	0	30	20	98	149	0
125°	0	18	14	0	0	0
135°	0	8	8	0	0	0
145°	1	2	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°	2289.1	2289.1	2289.1	2289.1	2289.1
2.5°	2305.8	2310.6	2328.5	2375.1	2365.5
5°	2292.7	2340.5	2419.2	2498.0	2506.4
7.5°	2276.0	2381.0	2499.2	2599.4	2607.8
10°	2250.9	2408.5	2557.7	2679.4	2690.2
12.5°	2221.1	2426.4	2603.0	2736.7	2747.4
15°	2181.7	2426.4	2622.1	2768.9	2789.2
17.5°	2132.8	2416.8	2632.9	2786.8	2805.9
20°	2082.7	2394.2	2620.9	2779.7	2797.6
22.5°	2021.8	2358.4	2592.3	2747.4	2768.9
25°	1951.4	2307.0	2545.7	2692.5	2706.9
27.5°	1879.8	2242.6	2477.7	2611.4	2622.1
30°	1795.0	2162.6	2393.0	2512.3	2517.1
32.5°	1710.3	2077.9	2297.5	2401.3	2397.7
35°	1612.4	1970.5	2180.5	2270.0	2255.7
37.5°	1511.0	1866.6	2052.8	2125.6	2111.3
40°	1408.3	1752.1	1928.7	1978.8	1956.2
42.5°	1297.3	1632.7	1804.6	1836.8	1809.3
45°	1186.3	1516.9	1673.3	1701.9	1666.1
47.5°	1083.7	1402.4	1553.9	1558.7	1524.1
50°	978.7	1298.5	1445.3	1440.6	1391.6
52.5°	871.3	1198.3	1342.7	1330.8	1280.6
55°	773.4	1107.6	1248.4	1226.9	1179.2
57.5°	687.5	1024.0	1167.2	1133.8	1094.4
60°	602.7	947.6	1093.2	1056.2	1020.4
62.5°	529.9	876.0	1025.2	987.0	956.0
65°	458.3	817.5	964.3	923.8	891.5
67.5°	398.6	759.1	909.4	864.1	833.1
70°	344.9	710.1	855.7	803.2	768.6
72.5°	292.4	667.2	804.4	734.0	704.2
75°	242.3	623.0	743.6	671.9	640.9
77.5°	199.3	582.4	674.3	606.3	581.2
80°	151.6	540.7	605.1	544.2	522.8
82.5°	107.4	481.0	537.1	482.2	466.7
85°	65.6	410.6	464.3	423.7	408.2
87.5°	28.6	339.0	399.8	366.4	355.7
90°	3.6	285.2	349.7	322.2	312.7
92.5°	1.2	250.6	323.4	300.8	290.0
95°	0.0	216.0	305.5	291.2	281.7
97.5°	0.0	175.4	288.8	282.9	273.3
100°	0.0	113.4	267.3	270.9	262.6
102.5°	0.0	47.7	242.3	257.8	250.6
105°	0.0	44.2	210.1	243.5	239.9
107.5°	0.0	40.6	165.9	224.4	222.0
110°	0.0	37.0	85.9	201.7	202.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	33.4	21.5	171.9	179.0
115°	0.0	29.8	20.3	97.9	149.2
117.5°	0.0	27.5	17.9	1.2	51.3
120°	0.0	23.9	16.7	1.2	0.0
122.5°	0.0	20.3	15.5	0.0	0.0
125°	0.0	17.9	14.3	0.0	0.0
127.5°	0.0	15.5	11.9	0.0	0.0
130°	0.0	13.1	10.7	0.0	0.0
132.5°	0.0	10.7	9.5	0.0	0.0
135°	0.0	8.4	8.4	0.0	0.0
137.5°	0.0	7.2	7.2	0.0	0.0
140°	0.0	4.8	6.0	0.0	0.0
142.5°	1.2	3.6	4.8	0.0	0.0
145°	1.2	2.4	3.6	0.0	0.0
147.5°	1.2	2.4	3.6	0.0	0.0
150°	1.2	1.2	2.4	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)