

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: P232560

Luminaire Tested: **8SKB1-LD5-16-N-UNV-L850-CD2-RS-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P232560  
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-LD5-16-N-UNV-L850-CD2-RS-U  
Description: METALUX SKYBAR 8' WAVESTREAM STRIP  
WITH NARROW LENS AND REFLECTOR  
Light Source: (476) 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17643.1 lumens  
Efficiency: N/A  
Efficacy: 135.2 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

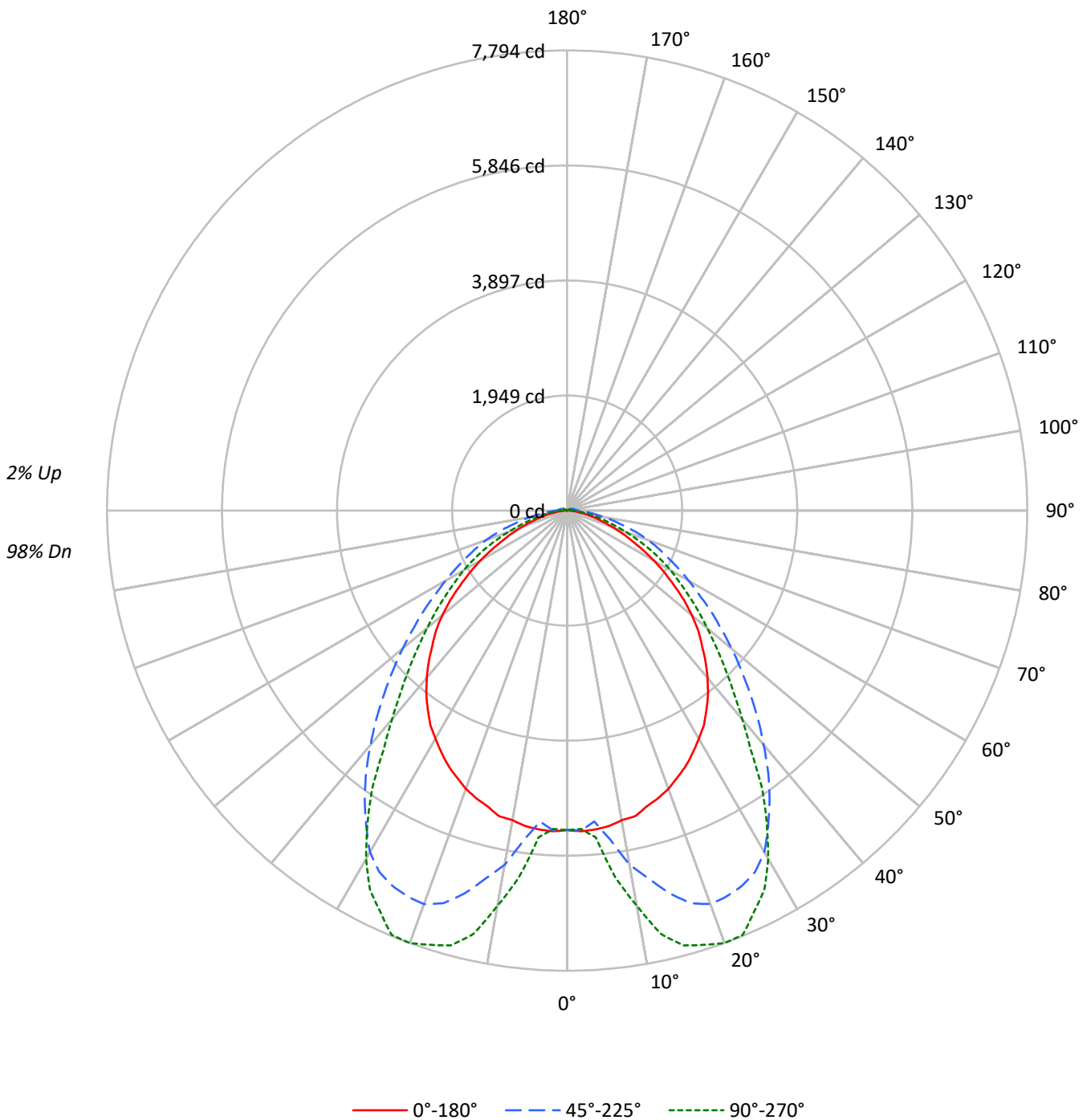
Input Watts (W): 130.5  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P232560

CATALOG NUMBER: 8SKB1-LD5-16-N-UNV-L850-CD2-RS-U

### Luminous Intensity Polar Plot





TEST NUMBER: P232560

CATALOG NUMBER: 8SKB1-LD5-16-N-UNV-L850-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	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°	29121	29121	29121
5°	29191	26568	27231
10°	28913	28929	30812
15°	28639	30453	32370
20°	28347	31019	31332
25°	27826	29810	28820
30°	27150	27840	25287
35°	26364	24610	20833
40°	25208	21227	16373
45°	23718	18009	13284
50°	22123	15134	10842
55°	19732	12574	8858
60°	17225	10337	7199
65°	14341	8471	5576
70°	11703	6856	3959
75°	9267	5007	2637
80°	7024	3396	1670
85°	4812	2058	899



TEST NUMBER: P232560

CATALOG NUMBER: 8SKB1-LD5-16-N-UNV-L850-CD2-RS-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	541.4	3.1
10°-20°	1847.5	10.5
20°-30°	3029.5	17.2
30°-40°	3424.6	19.4
40°-50°	3085.5	17.5
50°-60°	2431.2	13.8
60°-70°	1672.1	9.5
70°-80°	932.4	5.3
80°-90°	378.4	2.1
90°-100°	144.0	0.8
100°-110°	80.3	0.5
110°-120°	43.9	0.2
120°-130°	15.0	0.1
130°-140°	10.4	0.1
140°-150°	6.2	0.0
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	5418.4	30.7
0°-40°	8843.0	50.1
0°-60°	14359.7	81.4
0°-90°	17342.6	98.3
90°-120°	268.3	1.5
90°-150°	299.9	1.7
90°-180°	300.0	1.7
0°-180°	17643.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5411	5411	5411	5411	5411	
5°	5420	5442	5284	5519	5555	515
15°	5190	5586	6712	7489	7626	1467
25°	4766	5761	7011	7532	7494	2192
35°	4115	5190	5977	5891	5761	2570
45°	3230	4034	4379	4046	3782	2496
55°	2212	2791	2968	2709	2517	1985
65°	1214	1752	1879	1723	1533	1218
75°	506	1068	1005	804	679	547
85°	110	533	358	266	209	124
90°	5	341	197	130	91	7
95°	0	238	146	98	70	0
105°	0	60	108	94	72	0
115°	0	46	19	72	82	0
125°	2	34	17	14	0	2
135°	2	19	17	17	0	2
145°	2	10	12	14	0	2
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: P232560

CATALOG NUMBER: 8SKB1-LD5-16-N-UNV-L850-CD2-RS-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5410.9	5410.9	5410.9	5410.9	5410.9
2.5°	5437.3	5427.7	5422.9	5468.5	5396.5
5°	5420.5	5442.1	5283.8	5518.9	5554.9
7.5°	5391.7	5329.4	5624.5	6142.8	6267.6
10°	5324.6	5257.4	6087.6	6661.1	6797.9
12.5°	5305.4	5394.1	6385.2	7155.4	7347.4
15°	5190.2	5586.1	6711.5	7488.9	7625.7
17.5°	5111.0	5722.9	6973.0	7616.1	7712.1
20°	5015.0	5763.7	7093.0	7688.1	7793.7
22.5°	4887.8	5804.5	7071.4	7690.5	7776.9
25°	4765.5	5761.3	7011.4	7532.1	7493.7
27.5°	4616.7	5665.3	6896.3	7292.2	7237.0
30°	4460.7	5562.1	6680.3	6903.5	6809.9
32.5°	4309.6	5408.5	6334.8	6402.0	6294.0
35°	4115.2	5190.2	5977.2	5890.9	5761.3
37.5°	3918.4	4933.4	5595.7	5367.8	5108.6
40°	3697.7	4643.1	5178.2	4911.8	4611.9
42.5°	3469.7	4333.6	4782.3	4458.3	4170.4
45°	3229.8	4033.6	4379.1	4045.6	3781.7
47.5°	3013.8	3728.9	4000.0	3656.9	3426.5
50°	2757.1	3412.1	3640.1	3309.0	3095.4
52.5°	2497.9	3107.4	3282.6	2992.2	2797.9
55°	2212.4	2790.7	2968.2	2709.1	2517.1
57.5°	1950.8	2509.9	2649.1	2445.1	2250.8
60°	1701.3	2229.2	2375.5	2181.2	2020.4
62.5°	1444.5	1986.8	2126.0	1955.6	1775.7
65°	1214.2	1751.7	1878.8	1722.9	1533.3
67.5°	1010.2	1552.5	1667.7	1458.9	1279.0
70°	818.2	1374.9	1454.1	1221.4	1058.2
72.5°	647.9	1209.4	1235.8	993.4	849.4
75°	506.3	1067.8	1005.4	803.8	679.1
77.5°	376.7	943.0	811.0	638.3	532.7
80°	273.5	818.2	638.3	487.1	410.3
82.5°	189.6	674.3	489.5	367.1	302.3
85°	110.4	532.7	357.5	266.3	208.8
87.5°	40.8	431.9	261.5	180.0	139.2
90°	4.8	340.7	196.8	129.6	91.2
92.5°	2.4	287.9	163.2	108.0	74.4
95°	0.0	237.6	146.4	98.4	69.6
97.5°	0.0	187.2	134.4	96.0	69.6
100°	0.0	122.4	124.8	91.2	67.2
102.5°	0.0	69.6	117.6	91.2	69.6
105°	0.0	60.0	108.0	93.6	72.0
107.5°	0.0	55.2	96.0	98.4	76.8
110°	0.0	52.8	62.4	100.8	81.6



TEST NUMBER: P232560

CATALOG NUMBER: 8SKB1-LD5-16-N-UNV-L850-CD2-RS-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	48.0	24.0	103.2	86.4
115°	0.0	45.6	19.2	72.0	81.6
117.5°	0.0	43.2	19.2	50.4	52.8
120°	2.4	38.4	19.2	14.4	14.4
122.5°	2.4	36.0	16.8	14.4	0.0
125°	2.4	33.6	16.8	14.4	0.0
127.5°	2.4	28.8	16.8	16.8	0.0
130°	2.4	26.4	16.8	14.4	0.0
132.5°	2.4	24.0	16.8	16.8	0.0
135°	2.4	19.2	16.8	16.8	0.0
137.5°	2.4	16.8	14.4	16.8	0.0
140°	2.4	14.4	14.4	16.8	0.0
142.5°	2.4	12.0	14.4	16.8	0.0
145°	2.4	9.6	12.0	14.4	0.0
147.5°	2.4	7.2	12.0	14.4	0.0
150°	2.4	7.2	9.6	14.4	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)