

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: P232555

Luminaire Tested: **8SKB1-LD5-14-N-UNV-L835-CD2-RS-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P232555  
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-LD5-14-N-UNV-L835-CD2-RS-U  
Description: METALUX SKYBAR 8' WAVESTREAM STRIP  
WITH NARROW LENS AND REFLECTOR  
Light Source: (476) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13748.0 lumens  
Efficiency: N/A  
Efficacy: 130.4 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

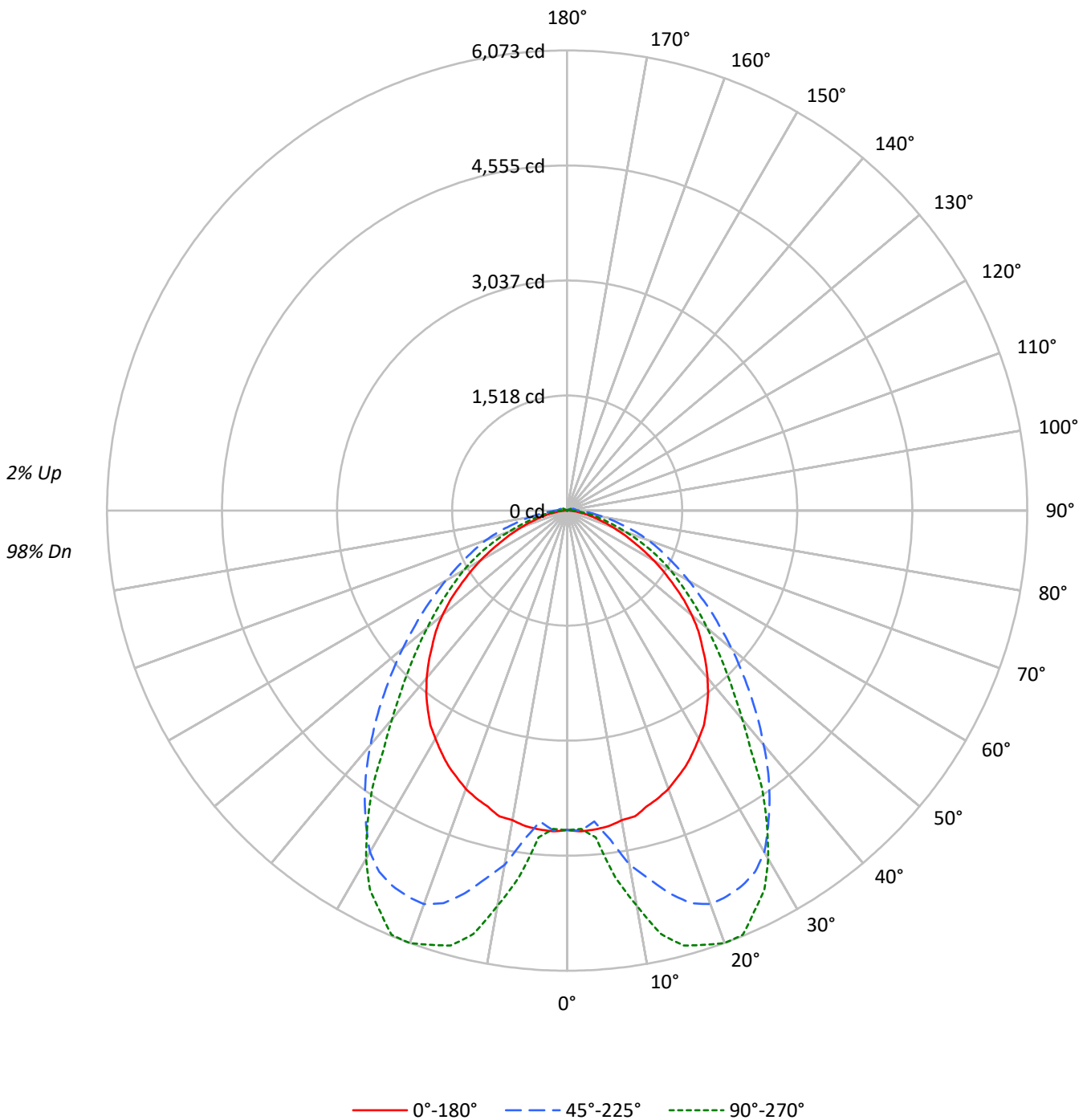
Input Watts (W): 105.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P232555

CATALOG NUMBER: 8SKB1-LD5-14-N-UNV-L835-CD2-RS-U

### Luminous Intensity Polar Plot





TEST NUMBER: P232555

CATALOG NUMBER: 8SKB1-LD5-14-N-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	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					98			
1	109	104	100	97	106	102	98	95	97	94	92	93	91	88	89	87	85	83					83			
2	100	92	85	80	97	90	84	79	86	81	77	82	78	75	79	76	73	71					71			
3	91	81	73	67	89	80	72	67	76	70	65	73	68	64	71	66	63	60					60			
4	84	72	64	58	82	71	63	57	68	62	56	66	60	55	63	58	54	52					52			
5	77	65	56	50	75	64	56	50	62	54	49	59	53	48	57	52	48	46					46			
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	52	47	42	40					40			
7	67	53	45	39	65	53	44	39	51	44	38	49	43	38	48	42	38	36					36			
8	62	49	41	35	60	48	40	35	47	40	34	45	39	34	44	38	34	32					32			
9	58	45	37	31	56	44	37	31	43	36	31	42	35	31	41	35	31	29					29			
10	54	41	34	29	53	41	33	28	40	33	28	39	32	28	38	32	28	26					26			

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

	0°	45°	90°
0°	22692	22692	22692
5°	22747	20703	21219
10°	22530	22543	24009
15°	22317	23730	25223
20°	22089	24171	24415
25°	21683	23229	22458
30°	21156	21694	19705
35°	20544	19178	16234
40°	19643	16541	12758
45°	18481	14033	10352
50°	17239	11793	8448
55°	15375	9798	6903
60°	13422	8055	5610
65°	11175	6601	4345
70°	9120	5342	3085
75°	7221	3902	2055
80°	5476	2647	1301
85°	3748	1604	701



TEST NUMBER: P232555

CATALOG NUMBER: 8SKB1-LD5-14-N-UNV-L835-CD2-RS-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	421.9	3.1
10°-20°	1439.6	10.5
20°-30°	2360.7	17.2
30°-40°	2668.6	19.4
40°-50°	2404.3	17.5
50°-60°	1894.4	13.8
60°-70°	1303.0	9.5
70°-80°	726.5	5.3
80°-90°	294.9	2.1
90°-100°	112.2	0.8
100°-110°	62.6	0.5
110°-120°	34.2	0.2
120°-130°	11.7	0.1
130°-140°	8.1	0.1
140°-150°	4.8	0.0
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4222.2	30.7
0°-40°	6890.8	50.1
0°-60°	11189.5	81.4
0°-90°	13513.9	98.3
90°-120°	209.0	1.5
90°-150°	233.7	1.7
90°-180°	234.0	1.7
0°-180°	13748.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4216	4216	4216	4216	4216	
5°	4224	4241	4117	4300	4329	401
15°	4044	4353	5230	5836	5942	1143
25°	3713	4489	5464	5869	5839	1708
35°	3207	4044	4658	4590	4489	2002
45°	2517	3143	3412	3152	2947	1945
55°	1724	2175	2313	2111	1961	1547
65°	946	1365	1464	1342	1195	949
75°	394	832	783	626	529	426
85°	86	415	279	208	163	97
90°	4	266	153	101	71	6
95°	0	185	114	77	54	0
105°	0	47	84	73	56	0
115°	0	36	15	56	64	0
125°	2	26	13	11	0	2
135°	2	15	13	13	0	1
145°	2	8	9	11	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: P232555

CATALOG NUMBER: 8SKB1-LD5-14-N-UNV-L835-CD2-RS-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4216.4	4216.4	4216.4	4216.4	4216.4
2.5°	4237.0	4229.5	4225.7	4261.3	4205.2
5°	4223.9	4240.7	4117.3	4300.5	4328.6
7.5°	4201.4	4152.8	4382.8	4786.7	4883.9
10°	4149.1	4096.7	4743.7	5190.5	5297.1
12.5°	4134.1	4203.3	4975.5	5575.7	5725.3
15°	4044.4	4352.9	5229.8	5835.6	5942.2
17.5°	3982.7	4459.5	5433.6	5934.7	6009.5
20°	3907.9	4491.2	5527.1	5990.8	6073.1
22.5°	3808.8	4523.0	5510.3	5992.7	6060.0
25°	3713.4	4489.4	5463.5	5869.3	5839.4
27.5°	3597.5	4414.6	5373.8	5682.3	5639.3
30°	3475.9	4334.2	5205.5	5379.4	5306.5
32.5°	3358.1	4214.5	4936.3	4988.6	4904.5
35°	3206.7	4044.4	4657.7	4590.3	4489.4
37.5°	3053.4	3844.3	4360.4	4182.7	3980.8
40°	2881.4	3618.0	4035.0	3827.5	3593.7
42.5°	2703.7	3376.8	3726.5	3474.1	3249.7
45°	2516.7	3143.1	3412.4	3152.5	2946.8
47.5°	2348.5	2905.7	3116.9	2849.6	2670.1
50°	2148.4	2658.8	2836.5	2578.4	2412.0
52.5°	1946.5	2421.4	2557.9	2331.6	2180.2
55°	1723.9	2174.6	2312.9	2111.0	1961.4
57.5°	1520.1	1955.8	2064.3	1905.3	1753.9
60°	1325.7	1737.0	1851.1	1699.6	1574.4
62.5°	1125.6	1548.2	1656.6	1523.9	1383.6
65°	946.1	1364.9	1464.0	1342.5	1194.8
67.5°	787.2	1209.8	1299.5	1136.8	996.6
70°	637.6	1071.4	1133.1	951.7	824.6
72.5°	504.8	942.4	962.9	774.1	661.9
75°	394.5	832.1	783.4	626.4	529.2
77.5°	293.6	734.8	632.0	497.4	415.1
80°	213.2	637.6	497.4	379.6	319.7
82.5°	147.7	525.4	381.4	286.1	235.6
85°	86.0	415.1	278.6	207.5	162.7
87.5°	31.8	336.6	203.8	140.2	108.4
90°	3.7	265.5	153.3	101.0	71.1
92.5°	1.9	224.4	127.1	84.1	58.0
95°	0.0	185.1	114.1	76.7	54.2
97.5°	0.0	145.8	104.7	74.8	54.2
100°	0.0	95.4	97.2	71.1	52.4
102.5°	0.0	54.2	91.6	71.1	54.2
105°	0.0	46.7	84.1	72.9	56.1
107.5°	0.0	43.0	74.8	76.7	59.8
110°	0.0	41.1	48.6	78.5	63.6



TEST NUMBER: P232555

CATALOG NUMBER: 8SKB1-LD5-14-N-UNV-L835-CD2-RS-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	37.4	18.7	80.4	67.3
115°	0.0	35.5	15.0	56.1	63.6
117.5°	0.0	33.7	15.0	39.3	41.1
120°	1.9	29.9	15.0	11.2	11.2
122.5°	1.9	28.0	13.1	11.2	0.0
125°	1.9	26.2	13.1	11.2	0.0
127.5°	1.9	22.4	13.1	13.1	0.0
130°	1.9	20.6	13.1	11.2	0.0
132.5°	1.9	18.7	13.1	13.1	0.0
135°	1.9	15.0	13.1	13.1	0.0
137.5°	1.9	13.1	11.2	13.1	0.0
140°	1.9	11.2	11.2	13.1	0.0
142.5°	1.9	9.3	11.2	13.1	0.0
145°	1.9	7.5	9.3	11.2	0.0
147.5°	1.9	5.6	9.3	11.2	0.0
150°	1.9	5.6	7.5	11.2	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)