

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: P232598

Luminaire Tested: **4SKB1-LD5-3-W-UNV-L840-CD1-RS-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P232598  
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: 4SKB1-LD5-3-W-UNV-L840-CD1-RS-U  
Description: METALUX SKYBAR 4' WAVESTREAM STRIP  
WITH WIDE LENS AND REFLECTOR  
Light Source: (196) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2929.0 lumens  
Efficiency: N/A  
Efficacy: 136.6 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.47 / 1.44  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.29')  
CIE Type: Direct

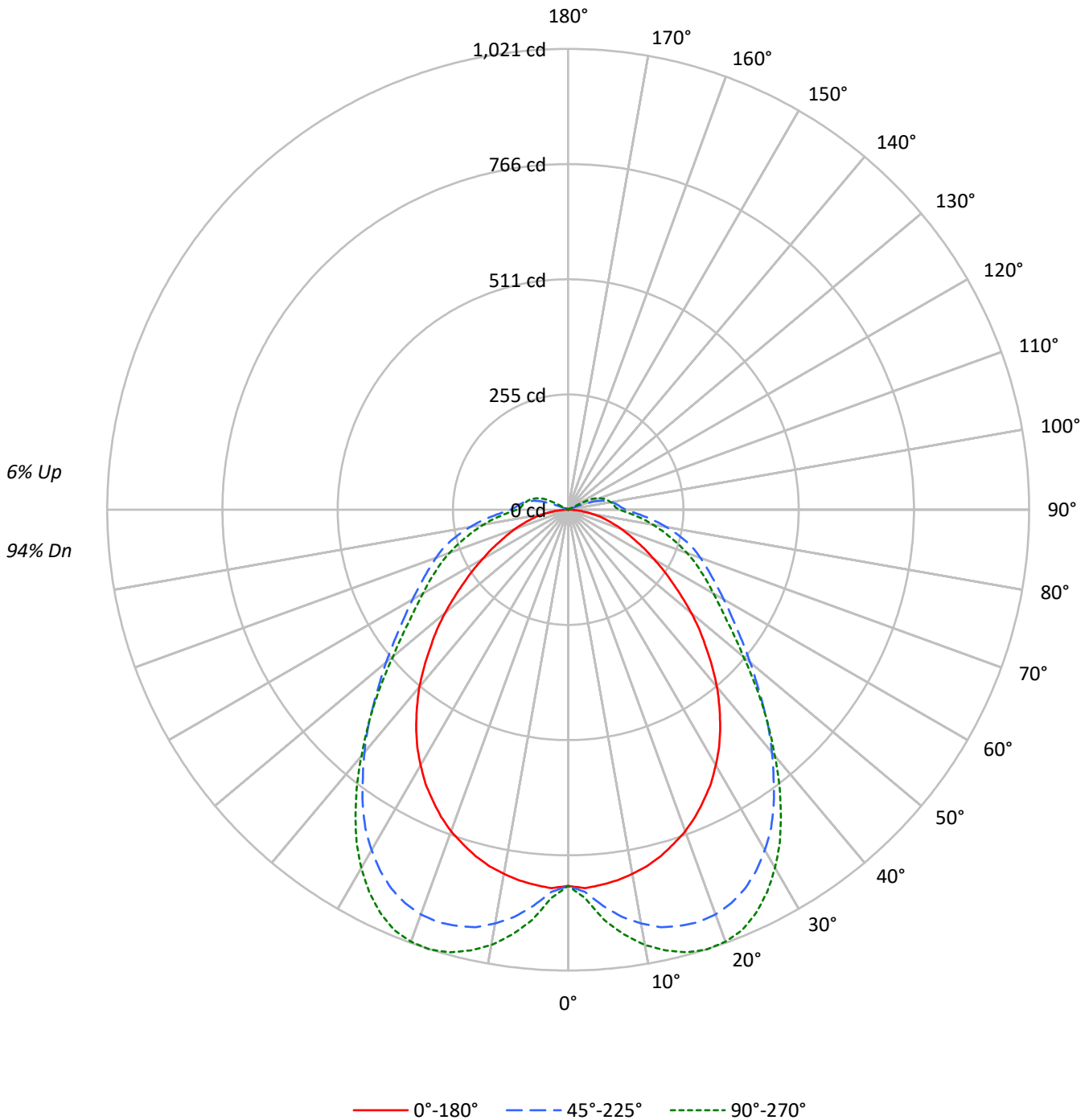
Input Watts (W): 21.44  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	8968	8968	8968
5°	8960	8837	8944
10°	8841	8814	8877
15°	8680	8613	8619
20°	8459	8285	8188
25°	8159	7812	7579
30°	7793	7188	6804
35°	7337	6463	5938
40°	6787	5684	5055
45°	6126	4941	4260
50°	5488	4309	3548
55°	4784	3787	3021
60°	4194	3402	2647
65°	3674	3104	2360
70°	3290	2876	2094
75°	2883	2635	1812
80°	2421	2287	1549
85°	1610	1894	1280



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.1	2.9
10°-20°	264.8	9.0
20°-30°	412.4	14.1
30°-40°	474.1	16.2
40°-50°	444.2	15.2
50°-60°	373.6	12.8
60°-70°	306.0	10.4
70°-80°	238.3	8.1
80°-90°	153.6	5.2
90°-100°	94.5	3.2
100°-110°	58.8	2.0
110°-120°	19.3	0.7
120°-130°	2.6	0.1
130°-140°	1.2	0.0
140°-150°	0.4	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	762.3	26.0
0°-40°	1236.4	42.2
0°-60°	2054.2	70.1
0°-90°	2752.1	94.0
90°-120°	172.6	5.9
90°-150°	176.9	6.0
90°-180°	177.0	6.0
0°-180°	2929.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	833	833	833	833	833	
5°	834	852	881	909	912	79
15°	794	883	954	1008	1015	224
25°	710	840	927	980	985	327
35°	587	717	794	826	821	366
45°	432	552	609	620	606	334
55°	282	403	454	447	429	254
65°	167	298	351	336	324	167
75°	88	227	271	245	233	94
85°	24	149	169	154	149	26
90°	1	104	127	117	114	2
95°	0	79	111	106	102	0
105°	0	16	76	89	87	0
115°	0	11	7	36	54	0
125°	0	6	5	0	0	0
135°	0	3	3	0	0	0
145°	0	1	1	0	0	0
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°	833.2	833.2	833.2	833.2	833.2
2.5°	839.3	841.0	847.6	864.5	861.0
5°	834.5	851.9	880.6	909.2	912.3
7.5°	828.4	866.7	909.7	946.2	949.2
10°	819.3	876.7	931.0	975.3	979.2
12.5°	808.5	883.2	947.5	996.1	1000.0
15°	794.1	883.2	954.4	1007.9	1015.2
17.5°	776.3	879.7	958.3	1014.4	1021.3
20°	758.1	871.4	954.0	1011.8	1018.3
22.5°	735.9	858.4	943.6	1000.0	1007.9
25°	710.3	839.7	926.6	980.0	985.3
27.5°	684.2	816.3	901.9	950.5	954.4
30°	653.4	787.2	871.0	914.5	916.2
32.5°	622.5	756.3	836.3	874.1	872.7
35°	586.9	717.2	793.7	826.3	821.1
37.5°	550.0	679.4	747.2	773.7	768.5
40°	512.6	637.7	702.0	720.3	712.0
42.5°	472.2	594.3	656.8	668.6	658.6
45°	431.8	552.1	609.1	619.5	606.4
47.5°	394.5	510.4	565.6	567.4	554.8
50°	356.2	472.6	526.1	524.3	506.5
52.5°	317.1	436.2	488.7	484.4	466.1
55°	281.5	403.1	454.4	446.6	429.2
57.5°	250.2	372.7	424.9	412.7	398.4
60°	219.4	344.9	397.9	384.5	371.4
62.5°	192.9	318.9	373.2	359.3	348.0
65°	166.8	297.6	351.0	336.2	324.5
67.5°	145.1	276.3	331.0	314.5	303.2
70°	125.5	258.5	311.5	292.4	279.8
72.5°	106.4	242.8	292.8	267.2	256.3
75°	88.2	226.8	270.6	244.6	233.3
77.5°	72.5	212.0	245.4	220.7	211.6
80°	55.2	196.8	220.3	198.1	190.3
82.5°	39.1	175.1	195.5	175.5	169.9
85°	23.9	149.4	169.0	154.2	148.6
87.5°	10.4	123.4	145.5	133.4	129.5
90°	1.3	103.8	127.3	117.3	113.8
92.5°	0.4	91.2	117.7	109.5	105.6
95°	0.0	78.6	111.2	106.0	102.5
97.5°	0.0	63.9	105.1	103.0	99.5
100°	0.0	41.3	97.3	98.6	95.6
102.5°	0.0	17.4	88.2	93.8	91.2
105°	0.0	16.1	76.5	88.6	87.3
107.5°	0.0	14.8	60.4	81.7	80.8
110°	0.0	13.5	31.3	73.4	73.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	12.2	7.8	62.6	65.2
115°	0.0	10.9	7.4	35.6	54.3
117.5°	0.0	10.0	6.5	0.4	18.7
120°	0.0	8.7	6.1	0.4	0.0
122.5°	0.0	7.4	5.6	0.0	0.0
125°	0.0	6.5	5.2	0.0	0.0
127.5°	0.0	5.6	4.3	0.0	0.0
130°	0.0	4.8	3.9	0.0	0.0
132.5°	0.0	3.9	3.5	0.0	0.0
135°	0.0	3.0	3.0	0.0	0.0
137.5°	0.0	2.6	2.6	0.0	0.0
140°	0.0	1.7	2.2	0.0	0.0
142.5°	0.4	1.3	1.7	0.0	0.0
145°	0.4	0.9	1.3	0.0	0.0
147.5°	0.4	0.9	1.3	0.0	0.0
150°	0.4	0.4	0.9	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)