

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: P232546

Luminaire Tested: **8SKB1-LD5-8-N-UNV-L835-CD1-RS-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232546
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-LD5-8-N-UNV-L835-CD1-RS-U
Description: METALUX SKYBAR 8' WAVESTREAM STRIP
WITH NARROW LENS AND REFLECTOR
Light Source: (392) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7953.0 lumens
Efficiency: N/A
Efficacy: 133.7 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

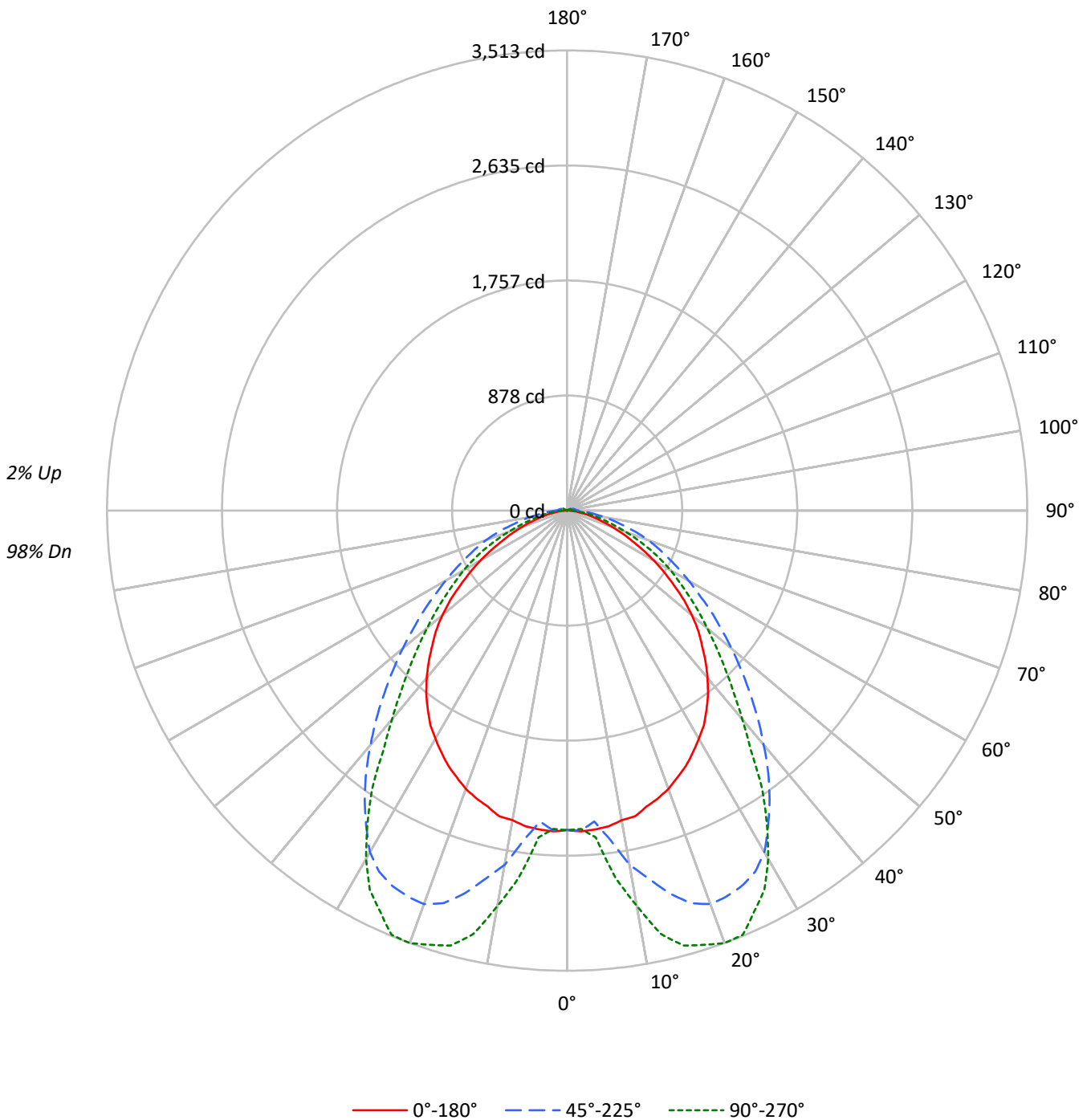
Input Watts (W): 59.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	13127	13127	13127
5°	13159	11976	12275
10°	13033	13040	13889
15°	12910	13728	14592
20°	12778	13982	14124
25°	12543	13438	12992
30°	12239	12550	11399
35°	11884	11094	9391
40°	11363	9569	7380
45°	10691	8118	5988
50°	9972	6822	4887
55°	8895	5668	3993
60°	7765	4660	3245
65°	6464	3818	2513
70°	5275	3091	1785
75°	4177	2257	1189
80°	3167	1531	753
85°	2171	928	405



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.1	3.1
10°-20°	832.8	10.5
20°-30°	1365.6	17.2
30°-40°	1543.7	19.4
40°-50°	1390.9	17.5
50°-60°	1095.9	13.8
60°-70°	753.7	9.5
70°-80°	420.3	5.3
80°-90°	170.6	2.1
90°-100°	64.9	0.8
100°-110°	36.2	0.5
110°-120°	19.8	0.2
120°-130°	6.8	0.1
130°-140°	4.7	0.1
140°-150°	2.8	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2442.5	30.7
0°-40°	3986.2	50.1
0°-60°	6473.0	81.4
0°-90°	7817.6	98.3
90°-120°	120.9	1.5
90°-150°	135.2	1.7
90°-180°	135.0	1.7
0°-180°	7953.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2439	2439	2439	2439	2439	
5°	2443	2453	2382	2488	2504	232
15°	2340	2518	3025	3376	3438	661
25°	2148	2597	3161	3395	3378	988
35°	1855	2340	2694	2655	2597	1158
45°	1456	1818	1974	1824	1705	1125
55°	997	1258	1338	1221	1135	895
65°	547	790	847	777	691	549
75°	228	481	453	362	306	247
85°	50	240	161	120	94	56
90°	2	154	89	58	41	3
95°	0	107	66	44	31	0
105°	0	27	49	42	32	0
115°	0	21	9	32	37	0
125°	1	15	8	6	0	1
135°	1	9	8	8	0	1
145°	1	4	5	6	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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CATALOG NUMBER: 8SKB1-LD5-8-N-UNV-L835-CD1-RS-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2439.1	2439.1	2439.1	2439.1	2439.1
2.5°	2451.0	2446.7	2444.5	2465.1	2432.6
5°	2443.4	2453.2	2381.8	2487.8	2504.0
7.5°	2430.5	2402.3	2535.4	2769.0	2825.3
10°	2400.2	2369.9	2744.1	3002.6	3064.3
12.5°	2391.5	2431.5	2878.3	3225.5	3312.0
15°	2339.6	2518.1	3025.4	3375.8	3437.5
17.5°	2303.9	2579.7	3143.3	3433.1	3476.4
20°	2260.6	2598.1	3197.3	3465.6	3513.2
22.5°	2203.3	2616.5	3187.6	3466.7	3505.6
25°	2148.1	2597.0	3160.6	3395.3	3378.0
27.5°	2081.1	2553.8	3108.6	3287.1	3262.2
30°	2010.8	2507.3	3011.3	3111.9	3069.7
32.5°	1942.6	2438.0	2855.5	2885.8	2837.2
35°	1855.0	2339.6	2694.4	2655.4	2597.0
37.5°	1766.3	2223.9	2522.4	2419.6	2302.8
40°	1666.8	2093.0	2334.2	2214.1	2078.9
42.5°	1564.1	1953.5	2155.7	2009.7	1879.9
45°	1455.9	1818.2	1974.0	1823.7	1704.7
47.5°	1358.5	1680.9	1803.1	1648.4	1544.6
50°	1242.8	1538.1	1640.9	1491.6	1395.3
52.5°	1126.0	1400.7	1479.7	1348.8	1261.2
55°	997.3	1258.0	1338.0	1221.2	1134.6
57.5°	879.4	1131.4	1194.1	1102.2	1014.6
60°	766.9	1004.8	1070.8	983.2	910.7
62.5°	651.2	895.6	958.3	881.5	800.4
65°	547.3	789.6	846.9	776.6	691.2
67.5°	455.4	699.8	751.7	657.6	576.5
70°	368.8	619.8	655.5	550.6	477.0
72.5°	292.0	545.1	557.0	447.8	382.9
75°	228.2	481.3	453.2	362.4	306.1
77.5°	169.8	425.1	365.6	287.7	240.1
80°	123.3	368.8	287.7	219.6	185.0
82.5°	85.5	303.9	220.7	165.5	136.3
85°	49.8	240.1	161.2	120.1	94.1
87.5°	18.4	194.7	117.9	81.1	62.7
90°	2.2	153.6	88.7	58.4	41.1
92.5°	1.1	129.8	73.6	48.7	33.5
95°	0.0	107.1	66.0	44.3	31.4
97.5°	0.0	84.4	60.6	43.3	31.4
100°	0.0	55.2	56.2	41.1	30.3
102.5°	0.0	31.4	53.0	41.1	31.4
105°	0.0	27.0	48.7	42.2	32.4
107.5°	0.0	24.9	43.3	44.3	34.6
110°	0.0	23.8	28.1	45.4	36.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	21.6	10.8	46.5	38.9
115°	0.0	20.6	8.7	32.4	36.8
117.5°	0.0	19.5	8.7	22.7	23.8
120°	1.1	17.3	8.7	6.5	6.5
122.5°	1.1	16.2	7.6	6.5	0.0
125°	1.1	15.1	7.6	6.5	0.0
127.5°	1.1	13.0	7.6	7.6	0.0
130°	1.1	11.9	7.6	6.5	0.0
132.5°	1.1	10.8	7.6	7.6	0.0
135°	1.1	8.7	7.6	7.6	0.0
137.5°	1.1	7.6	6.5	7.6	0.0
140°	1.1	6.5	6.5	7.6	0.0
142.5°	1.1	5.4	6.5	7.6	0.0
145°	1.1	4.3	5.4	6.5	0.0
147.5°	1.1	3.2	5.4	6.5	0.0
150°	1.1	3.2	4.3	6.5	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)