

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: P232612

Luminaire Tested: **4SKB1-LD5-8-W-UNV-L835-CD1-RS-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P232612  
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-LD5-8-W-UNV-L835-CD1-RS-U  
Description: METALUX SKYBAR 4' WAVESTREAM STRIP  
WITH WIDE LENS AND REFLECTOR  
Light Source: (238) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7332.0 lumens  
Efficiency: N/A  
Efficacy: 112.4 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

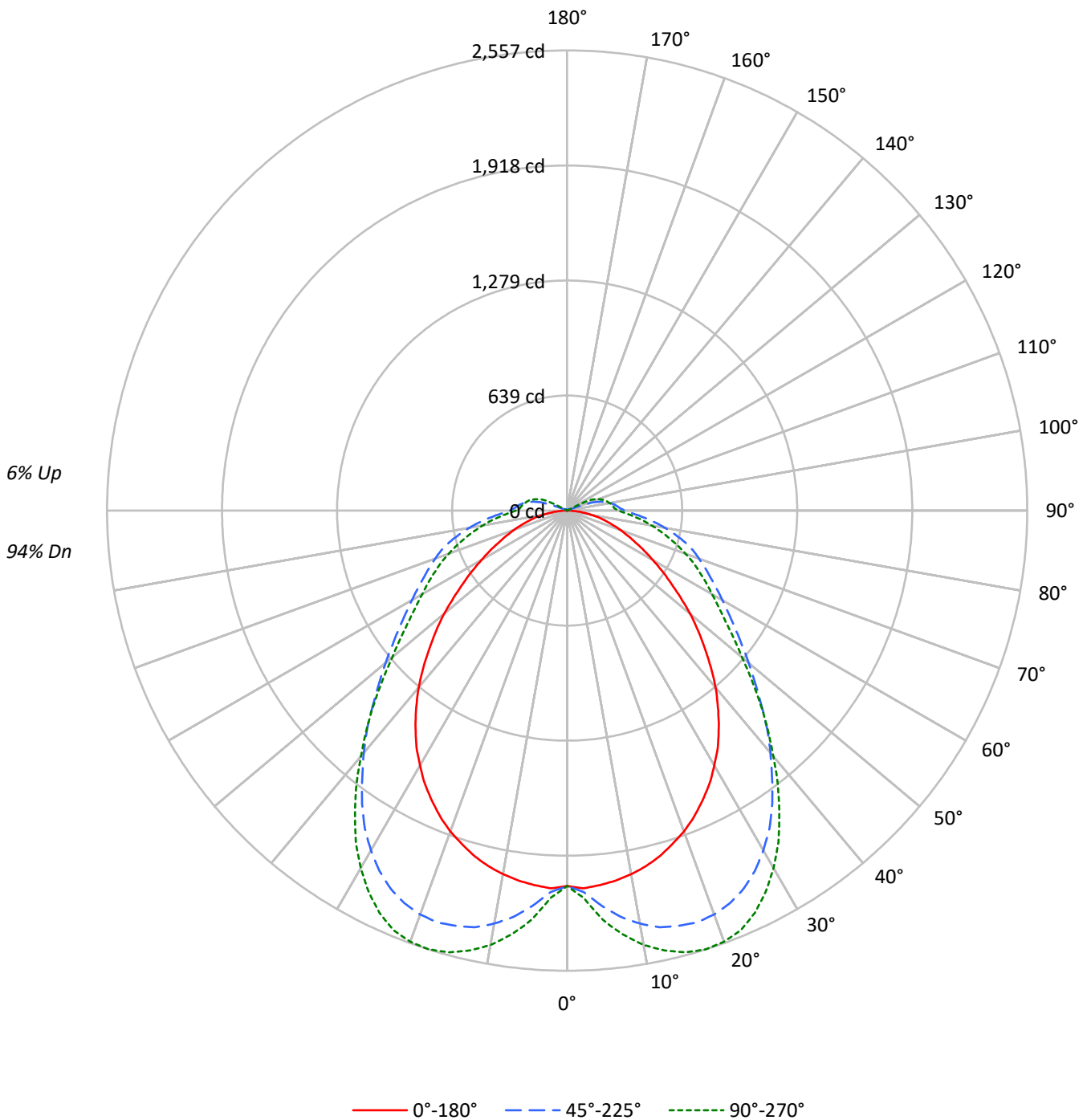
Input Watts (W): 65.23  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	22450	22450	22450
5°	22429	22121	22390
10°	22132	22061	22219
15°	21728	21560	21576
20°	21174	20739	20495
25°	20422	19555	18971
30°	19507	17993	17032
35°	18368	16178	14864
40°	16991	14228	12655
45°	15336	12367	10666
50°	13738	10786	8883
55°	11977	9480	7562
60°	10497	8515	6626
65°	9198	7772	5908
70°	8241	7200	5241
75°	7218	6597	4536
80°	6056	5723	3876
85°	4028	4741	3204



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	213.1	2.9
10°-20°	662.8	9.0
20°-30°	1032.2	14.1
30°-40°	1186.8	16.2
40°-50°	1111.9	15.2
50°-60°	935.3	12.8
60°-70°	766.1	10.4
70°-80°	596.5	8.1
80°-90°	384.4	5.2
90°-100°	236.6	3.2
100°-110°	147.1	2.0
110°-120°	48.4	0.7
120°-130°	6.6	0.1
130°-140°	3.1	0.0
140°-150°	1.1	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1908.2	26.0
0°-40°	3095.0	42.2
0°-60°	5142.2	70.1
0°-90°	6889.1	94.0
90°-120°	432.1	5.9
90°-150°	442.8	6.0
90°-180°	443.0	6.0
0°-180°	7332.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2086	2086	2086	2086	2086	
5°	2089	2132	2204	2276	2284	198
15°	1988	2211	2389	2523	2541	560
25°	1778	2102	2320	2453	2466	818
35°	1469	1795	1987	2068	2055	917
45°	1081	1382	1525	1551	1518	836
55°	705	1009	1138	1118	1074	635
65°	418	745	879	842	812	419
75°	221	568	678	612	584	236
85°	60	374	423	386	372	65
90°	3	260	319	294	285	5
95°	0	197	278	265	257	0
105°	0	40	191	222	219	0
115°	0	27	18	89	136	0
125°	0	16	13	0	0	0
135°	0	8	8	0	0	0
145°	1	2	3	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°	2085.7	2085.7	2085.7	2085.7	2085.7
2.5°	2101.0	2105.3	2121.6	2164.0	2155.3
5°	2089.0	2132.5	2204.3	2276.0	2283.7
7.5°	2073.8	2169.5	2277.1	2368.5	2376.1
10°	2050.9	2194.5	2330.4	2441.3	2451.1
12.5°	2023.8	2210.8	2371.7	2493.5	2503.3
15°	1987.9	2210.8	2389.1	2522.9	2541.4
17.5°	1943.3	2202.1	2398.9	2539.2	2556.6
20°	1897.6	2181.4	2388.1	2532.7	2549.0
22.5°	1842.2	2148.8	2362.0	2503.3	2522.9
25°	1778.0	2102.1	2319.5	2453.3	2466.4
27.5°	1712.7	2043.3	2257.6	2379.4	2389.1
30°	1635.5	1970.5	2180.3	2289.1	2293.4
32.5°	1558.3	1893.3	2093.4	2188.0	2184.7
35°	1469.2	1795.4	1986.8	2068.3	2055.3
37.5°	1376.7	1700.8	1870.4	1936.8	1923.7
40°	1283.2	1596.4	1757.3	1803.0	1782.3
42.5°	1182.1	1487.6	1644.2	1673.6	1648.6
45°	1080.9	1382.2	1524.6	1550.7	1518.1
47.5°	987.4	1277.8	1415.9	1420.2	1388.7
50°	891.7	1183.2	1316.9	1312.6	1268.0
52.5°	793.8	1091.8	1223.4	1212.5	1166.8
55°	704.7	1009.2	1137.5	1117.9	1074.4
57.5°	626.4	933.0	1063.5	1033.1	997.2
60°	549.2	863.4	996.1	962.4	929.8
62.5°	482.8	798.2	934.1	899.3	871.1
65°	417.6	744.9	878.7	841.7	812.3
67.5°	363.2	691.6	828.6	787.3	759.0
70°	314.3	647.0	779.7	731.9	700.3
72.5°	266.4	607.9	732.9	668.8	641.6
75°	220.8	567.7	677.5	612.2	584.0
77.5°	181.6	530.7	614.4	552.4	529.6
80°	138.1	492.6	551.3	495.9	476.3
82.5°	97.9	438.2	489.4	439.3	425.2
85°	59.8	374.1	423.0	386.0	371.9
87.5°	26.1	308.8	364.3	333.8	324.1
90°	3.3	259.9	318.6	293.6	284.9
92.5°	1.1	228.4	294.7	274.0	264.3
95°	0.0	196.8	278.4	265.3	256.6
97.5°	0.0	159.9	263.2	257.7	249.0
100°	0.0	103.3	243.6	246.9	239.2
102.5°	0.0	43.5	220.8	234.9	228.4
105°	0.0	40.2	191.4	221.8	218.6
107.5°	0.0	37.0	151.2	204.4	202.3
110°	0.0	33.7	78.3	183.8	184.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	30.4	19.6	156.6	163.1
115°	0.0	27.2	18.5	89.2	135.9
117.5°	0.0	25.0	16.3	1.1	46.8
120°	0.0	21.7	15.2	1.1	0.0
122.5°	0.0	18.5	14.1	0.0	0.0
125°	0.0	16.3	13.0	0.0	0.0
127.5°	0.0	14.1	10.9	0.0	0.0
130°	0.0	12.0	9.8	0.0	0.0
132.5°	0.0	9.8	8.7	0.0	0.0
135°	0.0	7.6	7.6	0.0	0.0
137.5°	0.0	6.5	6.5	0.0	0.0
140°	0.0	4.3	5.4	0.0	0.0
142.5°	1.1	3.3	4.3	0.0	0.0
145°	1.1	2.2	3.3	0.0	0.0
147.5°	1.1	2.2	3.3	0.0	0.0
150°	1.1	1.1	2.2	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)