

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: P232628

Luminaire Tested: **4SKB1-LD5-7-N-UNV-L840-CD1-RS-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232628
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: 4SKB1-LD5-7-N-UNV-L840-CD1-RS-U
Description: METALUX SKYBAR 4' WAVESTREAM STRIP
WITH NARROW LENS AND REFLECTOR
Light Source: (238) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7352.0 lumens
Efficiency: N/A
Efficacy: 139.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.5 / 1.49
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.29')
CIE Type: Direct

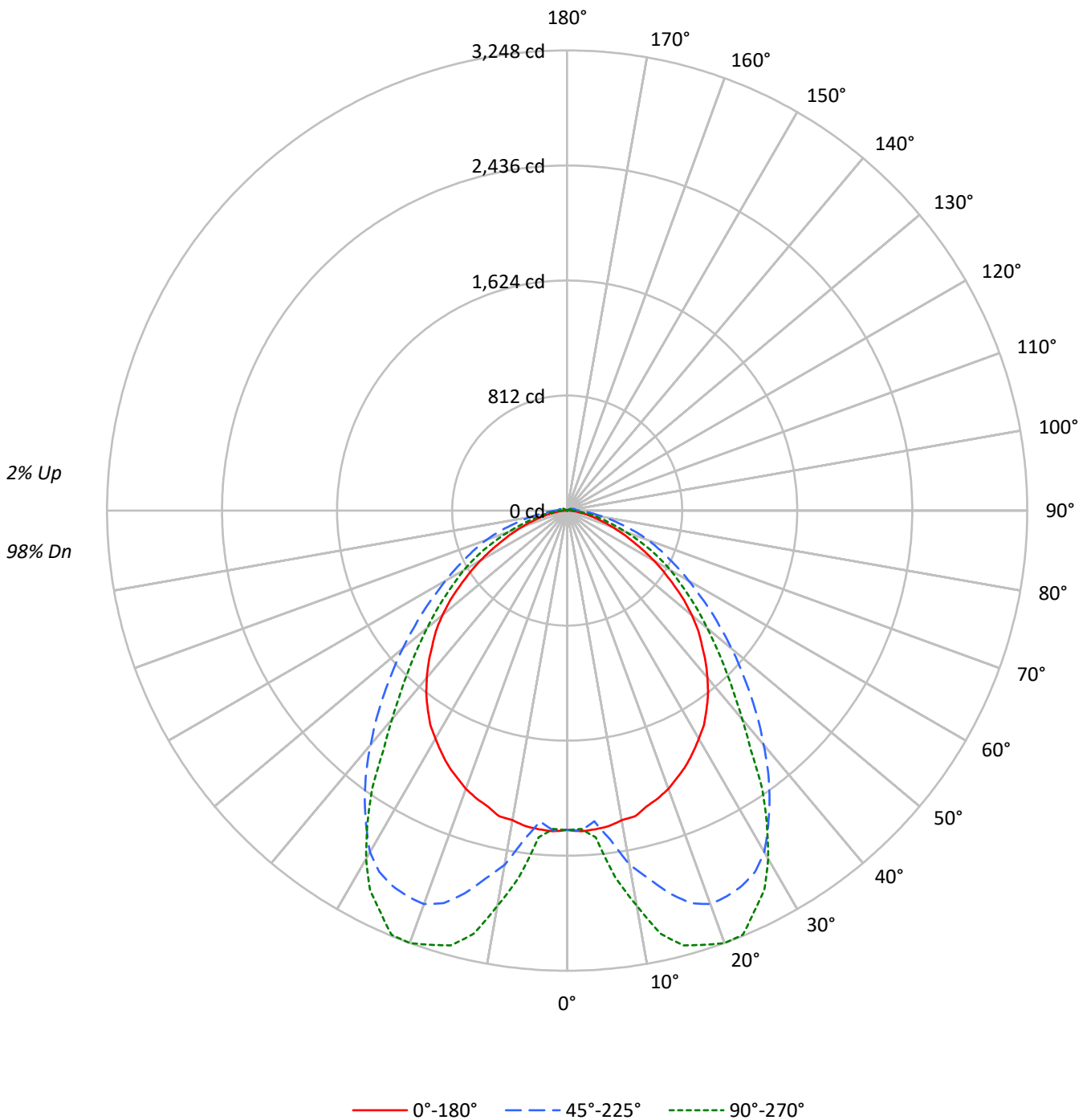
Input Watts (W): 52.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	24270	24270	24270
5°	24252	22096	22695
10°	23944	24015	25679
15°	23640	25238	26977
20°	23319	25668	26113
25°	22809	24632	24020
30°	22170	22973	21074
35°	21438	20282	17363
40°	20403	17470	13645
45°	19095	14803	11072
50°	17701	12424	9036
55°	15669	10308	7383
60°	13550	8462	6000
65°	11145	6924	4647
70°	8941	5595	3300
75°	6898	4080	2198
80°	4999	2761	1392
85°	3099	1670	750



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.6	3.1
10°-20°	769.9	10.5
20°-30°	1262.4	17.2
30°-40°	1427.1	19.4
40°-50°	1285.8	17.5
50°-60°	1013.1	13.8
60°-70°	696.8	9.5
70°-80°	388.6	5.3
80°-90°	157.7	2.1
90°-100°	60.0	0.8
100°-110°	33.5	0.5
110°-120°	18.3	0.2
120°-130°	6.3	0.1
130°-140°	4.3	0.1
140°-150°	2.6	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2257.9	30.7
0°-40°	3685.0	50.1
0°-60°	5983.8	81.4
0°-90°	7226.8	98.3
90°-120°	111.8	1.5
90°-150°	125.0	1.7
90°-180°	125.0	1.7
0°-180°	7352.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2255	2255	2255	2255	2255	
5°	2259	2268	2202	2300	2315	214
15°	2163	2328	2797	3121	3178	611
25°	1986	2401	2922	3139	3123	913
35°	1715	2163	2491	2455	2401	1071
45°	1346	1681	1825	1686	1576	1040
55°	922	1163	1237	1129	1049	827
65°	506	730	783	718	639	507
75°	211	445	419	335	283	228
85°	46	222	149	111	87	52
90°	2	142	82	54	38	3
95°	0	99	61	41	29	0
105°	0	25	45	39	30	0
115°	0	19	8	30	34	0
125°	1	14	7	6	0	1
135°	1	8	7	7	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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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2254.8	2254.8	2254.8	2254.8	2254.8
2.5°	2265.8	2261.8	2259.8	2278.8	2248.8
5°	2258.8	2267.8	2201.8	2299.8	2314.8
7.5°	2246.8	2220.8	2343.8	2559.8	2611.8
10°	2218.8	2190.8	2536.8	2775.7	2832.7
12.5°	2210.8	2247.8	2660.8	2981.7	3061.7
15°	2162.8	2327.8	2796.7	3120.7	3177.7
17.5°	2129.8	2384.8	2905.7	3173.7	3213.7
20°	2089.8	2401.8	2955.7	3203.7	3247.7
22.5°	2036.8	2418.8	2946.7	3204.7	3240.7
25°	1985.8	2400.8	2921.7	3138.7	3122.7
27.5°	1923.8	2360.8	2873.7	3038.7	3015.7
30°	1858.8	2317.8	2783.7	2876.7	2837.7
32.5°	1795.8	2253.8	2639.8	2667.8	2622.8
35°	1714.8	2162.8	2490.8	2454.8	2400.8
37.5°	1632.8	2055.8	2331.8	2236.8	2128.8
40°	1540.9	1934.8	2157.8	2046.8	1921.8
42.5°	1445.9	1805.8	1992.8	1857.8	1737.8
45°	1345.9	1680.8	1824.8	1685.8	1575.9
47.5°	1255.9	1553.9	1666.8	1523.9	1427.9
50°	1148.9	1421.9	1516.9	1378.9	1289.9
52.5°	1040.9	1294.9	1367.9	1246.9	1165.9
55°	921.9	1162.9	1236.9	1128.9	1048.9
57.5°	812.9	1045.9	1103.9	1018.9	937.9
60°	708.9	928.9	989.9	908.9	841.9
62.5°	601.9	827.9	885.9	814.9	739.9
65°	506.0	729.9	782.9	717.9	638.9
67.5°	421.0	646.9	694.9	607.9	533.0
70°	341.0	572.9	605.9	509.0	441.0
72.5°	270.0	504.0	515.0	414.0	354.0
75°	211.0	445.0	419.0	335.0	283.0
77.5°	157.0	393.0	338.0	266.0	222.0
80°	114.0	341.0	266.0	203.0	171.0
82.5°	79.0	281.0	204.0	153.0	126.0
85°	46.0	222.0	149.0	111.0	87.0
87.5°	17.0	180.0	109.0	75.0	58.0
90°	2.0	142.0	82.0	54.0	38.0
92.5°	1.0	120.0	68.0	45.0	31.0
95°	0.0	99.0	61.0	41.0	29.0
97.5°	0.0	78.0	56.0	40.0	29.0
100°	0.0	51.0	52.0	38.0	28.0
102.5°	0.0	29.0	49.0	38.0	29.0
105°	0.0	25.0	45.0	39.0	30.0
107.5°	0.0	23.0	40.0	41.0	32.0
110°	0.0	22.0	26.0	42.0	34.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	20.0	10.0	43.0	36.0
115°	0.0	19.0	8.0	30.0	34.0
117.5°	0.0	18.0	8.0	21.0	22.0
120°	1.0	16.0	8.0	6.0	6.0
122.5°	1.0	15.0	7.0	6.0	0.0
125°	1.0	14.0	7.0	6.0	0.0
127.5°	1.0	12.0	7.0	7.0	0.0
130°	1.0	11.0	7.0	6.0	0.0
132.5°	1.0	10.0	7.0	7.0	0.0
135°	1.0	8.0	7.0	7.0	0.0
137.5°	1.0	7.0	6.0	7.0	0.0
140°	1.0	6.0	6.0	7.0	0.0
142.5°	1.0	5.0	6.0	7.0	0.0
145°	1.0	4.0	5.0	6.0	0.0
147.5°	1.0	3.0	5.0	6.0	0.0
150°	1.0	3.0	4.0	6.0	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)