

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: P232613

Luminaire Tested: **4SKB1-LD5-8-W-UNV-L840-CD1-RS-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232613
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-L840-CD1-RS-U
Description: METALUX SKYBAR 4' WAVESTREAM STRIP
WITH WIDE LENS AND REFLECTOR
Light Source: (238) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7842.0 lumens
Efficiency: N/A
Efficacy: 120.2 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

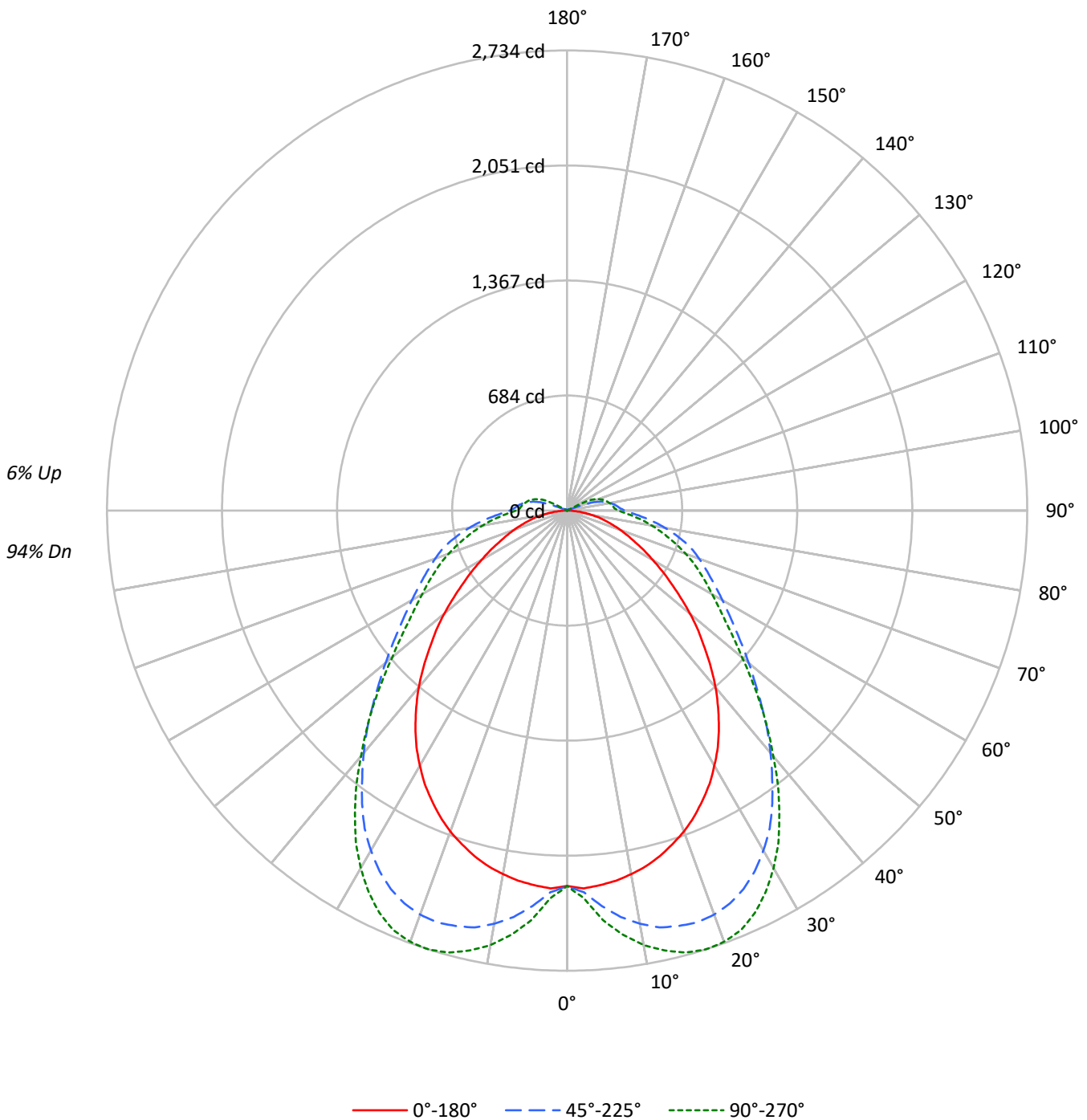
Input Watts (W): 65.23
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	24012	24012	24012
5°	23989	23660	23947
10°	23672	23596	23765
15°	23238	23059	23076
20°	22647	22181	21921
25°	21843	20916	20291
30°	20864	19245	18217
35°	19644	17303	15898
40°	18173	15218	13535
45°	16403	13228	11408
50°	14693	11536	9501
55°	12810	10139	8088
60°	11227	9108	7087
65°	9837	8312	6319
70°	8812	7700	5605
75°	7719	7055	4852
80°	6477	6122	4146
85°	4311	5071	3427



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.0	2.9
10°-20°	708.9	9.0
20°-30°	1104.0	14.1
30°-40°	1269.4	16.2
40°-50°	1189.2	15.2
50°-60°	1000.3	12.8
60°-70°	819.4	10.4
70°-80°	637.9	8.1
80°-90°	411.1	5.2
90°-100°	253.1	3.2
100°-110°	157.3	2.0
110°-120°	51.8	0.7
120°-130°	7.0	0.1
130°-140°	3.3	0.0
140°-150°	1.2	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2040.9	26.0
0°-40°	3310.3	42.2
0°-60°	5499.9	70.1
0°-90°	7368.3	94.0
90°-120°	462.2	5.9
90°-150°	473.7	6.0
90°-180°	474.0	6.0
0°-180°	7842.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2231	2231	2231	2231	2231	
5°	2234	2281	2358	2434	2442	212
15°	2126	2365	2555	2698	2718	599
25°	1902	2248	2481	2624	2638	875
35°	1571	1920	2125	2212	2198	980
45°	1156	1478	1631	1659	1624	894
55°	754	1079	1217	1196	1149	679
65°	447	797	940	900	869	448
75°	236	607	725	655	625	252
85°	64	400	452	413	398	70
90°	4	278	341	314	305	5
95°	0	210	298	284	274	0
105°	0	43	205	237	234	0
115°	0	29	20	95	145	0
125°	0	17	14	0	0	0
135°	0	8	8	0	0	0
145°	1	2	4	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°	2230.8	2230.8	2230.8	2230.8	2230.8
2.5°	2247.1	2251.8	2269.2	2314.6	2305.3
5°	2234.3	2280.8	2357.6	2434.4	2442.5
7.5°	2218.0	2320.4	2435.5	2533.2	2541.4
10°	2193.6	2347.1	2492.5	2611.2	2621.6
12.5°	2164.5	2364.6	2536.7	2667.0	2677.5
15°	2126.1	2364.6	2555.3	2698.4	2718.2
17.5°	2078.5	2355.3	2565.8	2715.8	2734.4
20°	2029.6	2333.2	2554.2	2708.9	2726.3
22.5°	1970.3	2298.3	2526.2	2677.5	2698.4
25°	1901.7	2248.3	2480.9	2623.9	2637.9
27.5°	1831.9	2185.5	2414.6	2544.9	2555.3
30°	1749.3	2107.5	2332.0	2448.3	2453.0
32.5°	1666.7	2025.0	2239.0	2340.2	2336.7
35°	1571.3	1920.3	2125.0	2212.2	2198.3
37.5°	1472.5	1819.1	2000.5	2071.5	2057.5
40°	1372.5	1707.4	1879.6	1928.4	1906.3
42.5°	1264.3	1591.1	1758.6	1790.0	1763.3
45°	1156.1	1478.3	1630.7	1658.6	1623.7
47.5°	1056.1	1366.6	1514.4	1519.0	1485.3
50°	953.7	1265.5	1408.5	1403.9	1356.2
52.5°	849.1	1167.7	1308.5	1296.9	1248.0
55°	753.7	1079.4	1216.6	1195.7	1149.1
57.5°	669.9	997.9	1137.5	1104.9	1066.6
60°	587.4	923.5	1065.4	1029.3	994.4
62.5°	516.4	853.7	999.1	961.9	931.6
65°	446.6	796.7	939.8	900.2	868.8
67.5°	388.5	739.7	886.3	842.1	811.8
70°	336.1	692.0	833.9	782.8	749.0
72.5°	285.0	650.2	783.9	715.3	686.2
75°	236.1	607.1	724.6	654.8	624.6
77.5°	194.2	567.6	657.2	590.9	566.4
80°	147.7	526.9	589.7	530.4	509.4
82.5°	104.7	468.7	523.4	469.9	454.8
85°	64.0	400.1	452.4	412.9	397.8
87.5°	27.9	330.3	389.6	357.1	346.6
90°	3.5	278.0	340.8	314.0	304.7
92.5°	1.2	244.3	315.2	293.1	282.6
95°	0.0	210.5	297.8	283.8	274.5
97.5°	0.0	171.0	281.5	275.7	266.3
100°	0.0	110.5	260.5	264.0	255.9
102.5°	0.0	46.5	236.1	251.2	244.3
105°	0.0	43.0	204.7	237.3	233.8
107.5°	0.0	39.5	161.7	218.7	216.3
110°	0.0	36.1	83.7	196.6	197.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	32.6	20.9	167.5	174.5
115°	0.0	29.1	19.8	95.4	145.4
117.5°	0.0	26.8	17.4	1.2	50.0
120°	0.0	23.3	16.3	1.2	0.0
122.5°	0.0	19.8	15.1	0.0	0.0
125°	0.0	17.4	14.0	0.0	0.0
127.5°	0.0	15.1	11.6	0.0	0.0
130°	0.0	12.8	10.5	0.0	0.0
132.5°	0.0	10.5	9.3	0.0	0.0
135°	0.0	8.1	8.1	0.0	0.0
137.5°	0.0	7.0	7.0	0.0	0.0
140°	0.0	4.7	5.8	0.0	0.0
142.5°	1.2	3.5	4.7	0.0	0.0
145°	1.2	2.3	3.5	0.0	0.0
147.5°	1.2	2.3	3.5	0.0	0.0
150°	1.2	1.2	2.3	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)