

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: P232604

Luminaire Tested: **4SKB1-LD5-5-W-UNV-L840-CD1-RS-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P232604  
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-LD5-5-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: 4907.0 lumens  
Efficiency: N/A  
Efficacy: 129.1 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

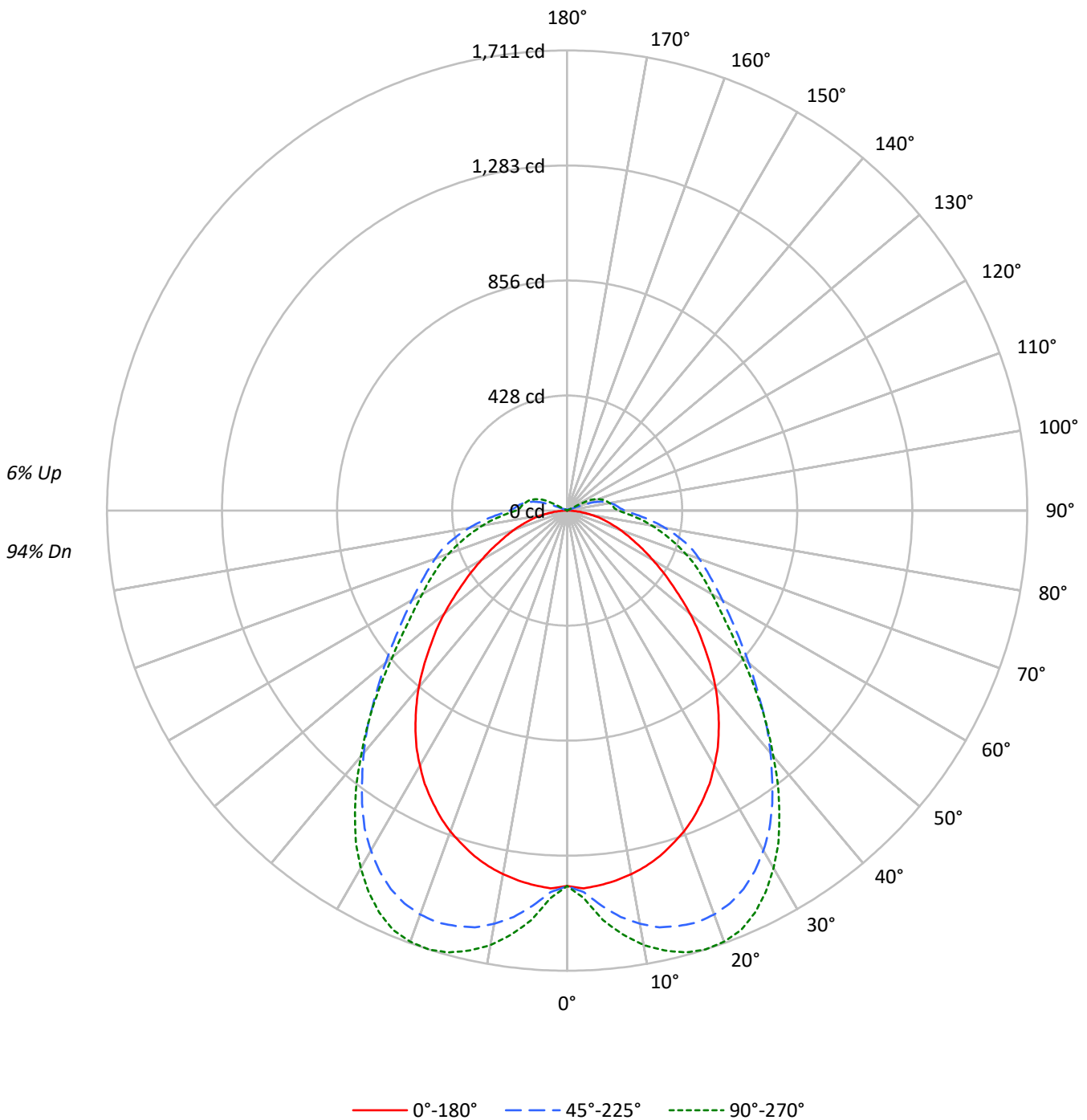
Input Watts (W): 38  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	15025	15025	15025
5°	15011	14804	14985
10°	14812	14765	14870
15°	14541	14430	14439
20°	14171	13879	13716
25°	13667	13088	12696
30°	13055	12042	11399
35°	12292	10827	9948
40°	11371	9522	8469
45°	10264	8277	7138
50°	9195	7219	5945
55°	8015	6344	5061
60°	7024	5699	4435
65°	6156	5201	3954
70°	5514	4818	3507
75°	4829	4415	3036
80°	4052	3831	2594
85°	2694	3173	2144



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.6	2.9
10°-20°	443.6	9.0
20°-30°	690.8	14.1
30°-40°	794.3	16.2
40°-50°	744.1	15.2
50°-60°	625.9	12.8
60°-70°	512.7	10.4
70°-80°	399.2	8.1
80°-90°	257.3	5.2
90°-100°	158.4	3.2
100°-110°	98.4	2.0
110°-120°	32.4	0.7
120°-130°	4.4	0.1
130°-140°	2.1	0.0
140°-150°	0.7	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1277.1	26.0
0°-40°	2071.4	42.2
0°-60°	3441.5	70.1
0°-90°	4610.6	94.0
90°-120°	289.2	5.9
90°-150°	296.4	6.0
90°-180°	296.0	6.0
0°-180°	4907.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1396	1396	1396	1396	1396	
5°	1398	1427	1475	1523	1528	133
15°	1330	1480	1599	1688	1701	375
25°	1190	1407	1552	1642	1651	547
35°	983	1202	1330	1384	1376	613
45°	723	925	1020	1038	1016	559
55°	472	675	761	748	719	425
65°	280	498	588	563	544	281
75°	148	380	453	410	391	158
85°	40	250	283	258	249	44
90°	2	174	213	196	191	3
95°	0	132	186	178	172	0
105°	0	27	128	148	146	0
115°	0	18	12	60	91	0
125°	0	11	9	0	0	0
135°	0	5	5	0	0	0
145°	1	2	2	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°	1395.9	1395.9	1395.9	1395.9	1395.9
2.5°	1406.1	1409.0	1419.9	1448.3	1442.5
5°	1398.1	1427.2	1475.2	1523.3	1528.4
7.5°	1387.9	1451.9	1524.0	1585.1	1590.2
10°	1372.6	1468.7	1559.7	1633.9	1640.4
12.5°	1354.4	1479.6	1587.3	1668.8	1675.4
15°	1330.4	1479.6	1599.0	1688.5	1700.8
17.5°	1300.6	1473.8	1605.5	1699.4	1711.0
20°	1270.0	1459.9	1598.2	1695.0	1705.9
22.5°	1232.9	1438.1	1580.8	1675.4	1688.5
25°	1189.9	1406.8	1552.4	1641.9	1650.6
27.5°	1146.3	1367.5	1510.9	1592.4	1599.0
30°	1094.6	1318.8	1459.2	1532.0	1534.9
32.5°	1042.9	1267.1	1401.0	1464.3	1462.1
35°	983.2	1201.6	1329.7	1384.3	1375.5
37.5°	921.4	1138.3	1251.8	1296.2	1287.5
40°	858.8	1068.4	1176.1	1206.7	1192.8
42.5°	791.1	995.6	1100.4	1120.1	1103.3
45°	723.4	925.0	1020.4	1037.8	1016.0
47.5°	660.8	855.2	947.6	950.5	929.4
50°	596.8	791.8	881.4	878.4	848.6
52.5°	531.3	730.7	818.8	811.5	780.9
55°	471.6	675.4	761.3	748.2	719.1
57.5°	419.2	624.4	711.8	691.4	667.4
60°	367.5	577.9	666.7	644.1	622.3
62.5°	323.1	534.2	625.2	601.9	583.0
65°	279.5	498.5	588.1	563.3	543.7
67.5°	243.1	462.9	554.6	526.9	508.0
70°	210.3	433.0	521.8	489.8	468.7
72.5°	178.3	406.8	490.5	447.6	429.4
75°	147.7	379.9	453.4	409.7	390.8
77.5°	121.5	355.2	411.2	369.7	354.4
80°	92.4	329.7	369.0	331.9	318.8
82.5°	65.5	293.3	327.5	294.0	284.6
85°	40.0	250.4	283.1	258.4	248.9
87.5°	17.5	206.7	243.8	223.4	216.9
90°	2.2	173.9	213.2	196.5	190.7
92.5°	0.7	152.8	197.2	183.4	176.9
95°	0.0	131.7	186.3	177.6	171.8
97.5°	0.0	107.0	176.1	172.5	166.7
100°	0.0	69.1	163.0	165.2	160.1
102.5°	0.0	29.1	147.7	157.2	152.8
105°	0.0	26.9	128.1	148.5	146.3
107.5°	0.0	24.7	101.2	136.8	135.4
110°	0.0	22.6	52.4	123.0	123.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	20.4	13.1	104.8	109.2
115°	0.0	18.2	12.4	59.7	91.0
117.5°	0.0	16.7	10.9	0.7	31.3
120°	0.0	14.6	10.2	0.7	0.0
122.5°	0.0	12.4	9.5	0.0	0.0
125°	0.0	10.9	8.7	0.0	0.0
127.5°	0.0	9.5	7.3	0.0	0.0
130°	0.0	8.0	6.6	0.0	0.0
132.5°	0.0	6.6	5.8	0.0	0.0
135°	0.0	5.1	5.1	0.0	0.0
137.5°	0.0	4.4	4.4	0.0	0.0
140°	0.0	2.9	3.6	0.0	0.0
142.5°	0.7	2.2	2.9	0.0	0.0
145°	0.7	1.5	2.2	0.0	0.0
147.5°	0.7	1.5	2.2	0.0	0.0
150°	0.7	0.7	1.5	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)