

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: P232607

Luminaire Tested: **4SKB1-LD5-6-W-UNV-L840-CD1-RS-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232607
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-LD5-6-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: 5869.0 lumens
Efficiency: N/A
Efficacy: 124.4 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

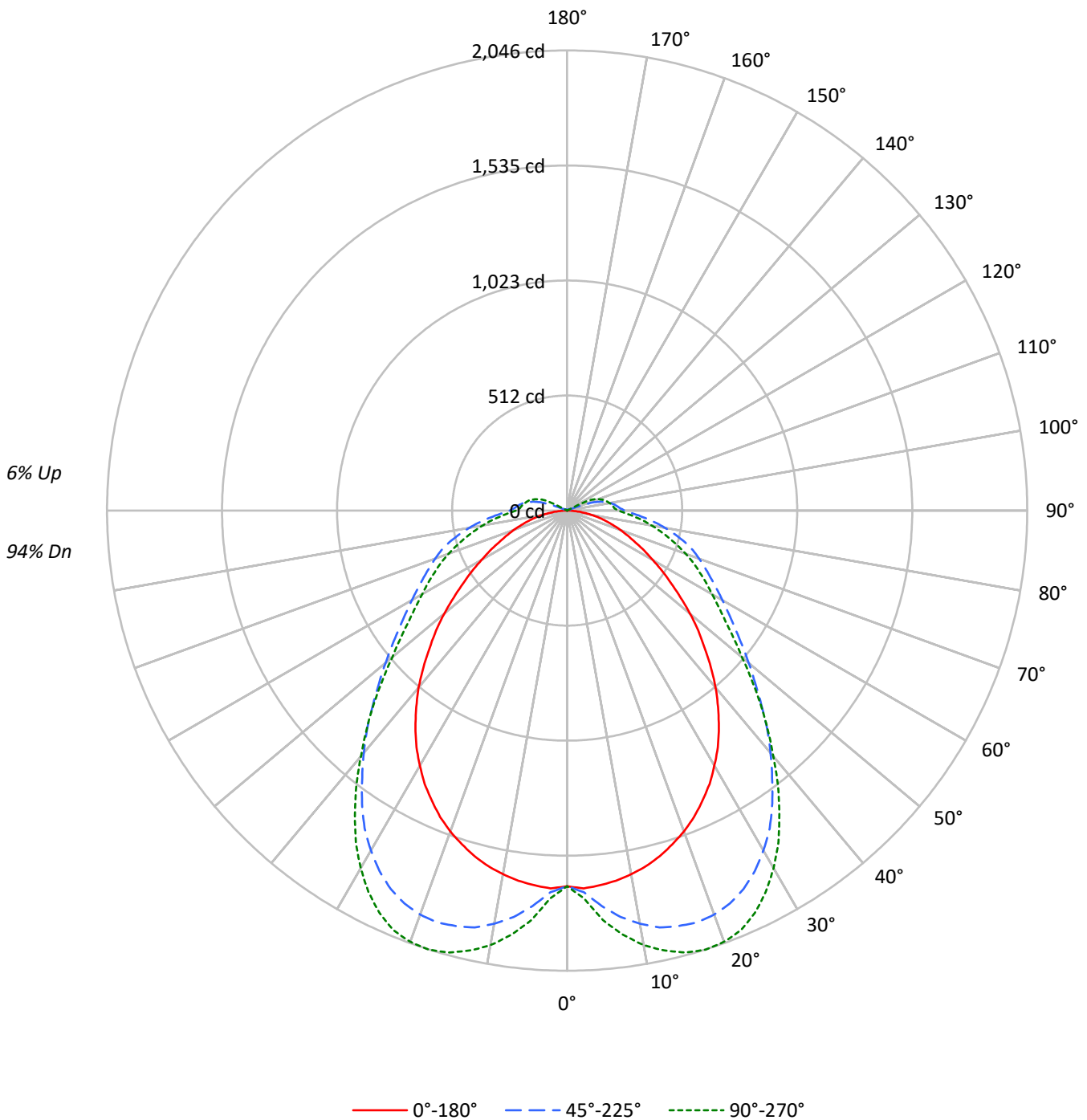
Input Watts (W): 47.16
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	17971	17971	17971
5°	17954	17707	17922
10°	17716	17659	17786
15°	17392	17258	17270
20°	16950	16601	16406
25°	16347	15653	15185
30°	15615	14403	13634
35°	14702	12949	11898
40°	13601	11389	10130
45°	12275	9900	8538
50°	10997	8633	7110
55°	9588	7588	6053
60°	8402	6816	5304
65°	7363	6220	4729
70°	6597	5763	4195
75°	5777	5280	3631
80°	4846	4581	3103
85°	3227	3795	2565



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.6	2.9
10°-20°	530.5	9.0
20°-30°	826.3	14.1
30°-40°	950.0	16.2
40°-50°	890.0	15.2
50°-60°	748.6	12.8
60°-70°	613.2	10.4
70°-80°	477.4	8.1
80°-90°	307.7	5.2
90°-100°	189.4	3.2
100°-110°	117.8	2.0
110°-120°	38.7	0.7
120°-130°	5.3	0.1
130°-140°	2.4	0.0
140°-150°	0.9	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1527.4	26.0
0°-40°	2477.4	42.2
0°-60°	4116.1	70.1
0°-90°	5514.5	94.0
90°-120°	345.9	5.9
90°-150°	354.5	6.0
90°-180°	355.0	6.0
0°-180°	5869.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1670	1670	1670	1670	1670	
5°	1672	1707	1764	1822	1828	159
15°	1591	1770	1912	2020	2034	448
25°	1423	1683	1857	1964	1974	655
35°	1176	1437	1590	1656	1645	734
45°	865	1106	1220	1241	1215	669
55°	564	808	910	895	860	509
65°	334	596	703	674	650	336
75°	177	454	542	490	467	189
85°	48	299	339	309	298	52
90°	3	208	255	235	228	4
95°	0	158	223	212	205	0
105°	0	32	153	178	175	0
115°	0	22	15	71	109	0
125°	0	13	10	0	0	0
135°	0	6	6	0	0	0
145°	1	2	3	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°	1669.6	1669.6	1669.6	1669.6	1669.6
2.5°	1681.7	1685.2	1698.3	1732.2	1725.3
5°	1672.2	1707.0	1764.4	1821.9	1828.0
7.5°	1660.0	1736.6	1822.8	1895.9	1902.0
10°	1641.7	1756.6	1865.4	1954.2	1962.0
12.5°	1619.9	1769.7	1898.5	1996.0	2003.8
15°	1591.2	1769.7	1912.4	2019.5	2034.3
17.5°	1555.5	1762.7	1920.3	2032.5	2046.5
20°	1519.0	1746.2	1911.6	2027.3	2040.4
22.5°	1474.6	1720.0	1890.7	2003.8	2019.5
25°	1423.2	1682.6	1856.7	1963.8	1974.2
27.5°	1371.0	1635.6	1807.1	1904.6	1912.4
30°	1309.2	1577.3	1745.3	1832.3	1835.8
32.5°	1247.4	1515.5	1675.7	1751.4	1748.8
35°	1176.0	1437.1	1590.3	1655.6	1645.2
37.5°	1102.0	1361.4	1497.2	1550.3	1539.9
40°	1027.2	1277.8	1406.7	1443.2	1426.7
42.5°	946.2	1190.8	1316.1	1339.7	1319.6
45°	865.2	1106.4	1220.4	1241.3	1215.2
47.5°	790.4	1022.8	1133.4	1136.8	1111.6
50°	713.8	947.1	1054.1	1050.7	1015.0
52.5°	635.4	874.0	979.3	970.6	934.0
55°	564.1	807.8	910.5	894.8	860.0
57.5°	501.4	746.9	851.3	826.9	798.2
60°	439.6	691.2	797.3	770.4	744.3
62.5°	386.5	638.9	747.7	719.9	697.2
65°	334.3	596.3	703.3	673.7	650.2
67.5°	290.7	553.6	663.3	630.2	607.6
70°	251.6	517.9	624.1	585.8	560.6
72.5°	213.3	486.6	586.7	535.3	513.6
75°	176.7	454.4	542.3	490.1	467.4
77.5°	145.4	424.8	491.8	442.2	423.9
80°	110.5	394.3	441.3	396.9	381.3
82.5°	78.3	350.8	391.7	351.7	340.4
85°	47.9	299.4	338.6	309.0	297.7
87.5°	20.9	247.2	291.6	267.2	259.4
90°	2.6	208.0	255.0	235.0	228.1
92.5°	0.9	182.8	235.9	219.4	211.5
95°	0.0	157.6	222.8	212.4	205.4
97.5°	0.0	128.0	210.7	206.3	199.3
100°	0.0	82.7	195.0	197.6	191.5
102.5°	0.0	34.8	176.7	188.0	182.8
105°	0.0	32.2	153.2	177.6	175.0
107.5°	0.0	29.6	121.0	163.6	161.9
110°	0.0	27.0	62.7	147.1	148.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	24.4	15.7	125.3	130.6
115°	0.0	21.8	14.8	71.4	108.8
117.5°	0.0	20.0	13.1	0.9	37.4
120°	0.0	17.4	12.2	0.9	0.0
122.5°	0.0	14.8	11.3	0.0	0.0
125°	0.0	13.1	10.4	0.0	0.0
127.5°	0.0	11.3	8.7	0.0	0.0
130°	0.0	9.6	7.8	0.0	0.0
132.5°	0.0	7.8	7.0	0.0	0.0
135°	0.0	6.1	6.1	0.0	0.0
137.5°	0.0	5.2	5.2	0.0	0.0
140°	0.0	3.5	4.4	0.0	0.0
142.5°	0.9	2.6	3.5	0.0	0.0
145°	0.9	1.7	2.6	0.0	0.0
147.5°	0.9	1.7	2.6	0.0	0.0
150°	0.9	0.9	1.7	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)