

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: P232526

Luminaire Tested: **8SKB1-LD5-6-W-UNV-L840-CD1-RS-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232526
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: 8SKB1-LD5-6-W-UNV-L840-CD1-RS-U
Description: METALUX SKYBAR 8' WAVESTREAM STRIP
WITH WIDE LENS AND REFLECTOR
Light Source: (392) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5859.0 lumens
Efficiency: N/A
Efficacy: 139.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.47 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.29')
CIE Type: Direct

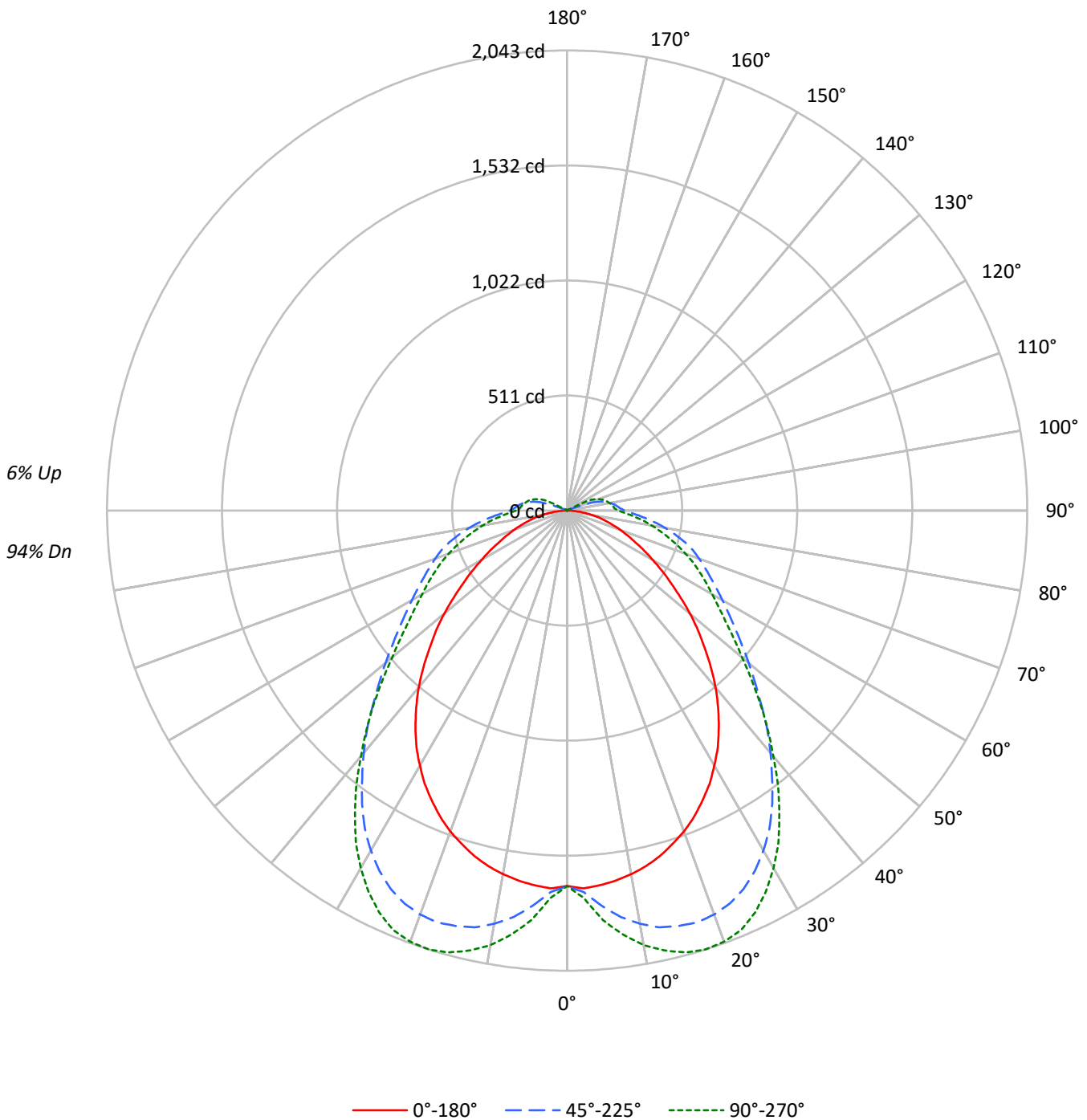
Input Watts (W): 42
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	8970	8970	8970
5°	8990	8857	8946
10°	8899	8849	8878
15°	8765	8663	8620
20°	8571	8345	8189
25°	8296	7880	7580
30°	7955	7261	6805
35°	7521	6537	5939
40°	6990	5757	5056
45°	6343	5010	4261
50°	5718	4375	3549
55°	5022	3851	3022
60°	4443	3464	2648
65°	3941	3166	2360
70°	3591	2938	2094
75°	3229	2696	1812
80°	2835	2344	1549
85°	2083	1946	1280



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.3	2.9
10°-20°	529.6	9.0
20°-30°	824.9	14.1
30°-40°	948.4	16.2
40°-50°	888.5	15.2
50°-60°	747.4	12.8
60°-70°	612.2	10.4
70°-80°	476.6	8.1
80°-90°	307.2	5.2
90°-100°	189.1	3.2
100°-110°	117.6	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°	1524.8	26.0
0°-40°	2473.2	42.2
0°-60°	4109.1	70.1
0°-90°	5505.1	94.0
90°-120°	345.3	5.9
90°-150°	353.9	6.0
90°-180°	354.0	6.0
0°-180°	5859.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1667	1667	1667	1667	1667	
5°	1669	1704	1761	1819	1825	158
15°	1588	1767	1909	2016	2031	447
25°	1421	1680	1854	1960	1971	654
35°	1174	1435	1588	1653	1642	732
45°	864	1104	1218	1239	1213	668
55°	563	806	909	893	859	508
65°	334	595	702	673	649	335
75°	176	454	541	489	467	189
85°	48	299	338	308	297	52
90°	3	208	255	235	228	4
95°	0	157	222	212	205	0
105°	0	32	153	177	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°	1666.7	1666.7	1666.7	1666.7	1666.7
2.5°	1678.9	1682.4	1695.4	1729.3	1722.3
5°	1669.3	1704.1	1761.4	1818.8	1824.9
7.5°	1657.2	1733.6	1819.7	1892.7	1898.7
10°	1638.9	1753.6	1862.2	1950.9	1958.7
12.5°	1617.2	1766.6	1895.3	1992.6	2000.4
15°	1588.5	1766.6	1909.2	2016.0	2030.8
17.5°	1552.9	1759.7	1917.0	2029.1	2043.0
20°	1516.4	1743.2	1908.3	2023.9	2036.9
22.5°	1472.1	1717.1	1887.4	2000.4	2016.0
25°	1420.8	1679.7	1853.5	1960.4	1970.9
27.5°	1368.7	1632.8	1804.0	1901.3	1909.2
30°	1307.0	1574.6	1742.3	1829.2	1832.7
32.5°	1245.3	1512.9	1672.8	1748.4	1745.8
35°	1174.0	1434.7	1587.6	1652.8	1642.4
37.5°	1100.1	1359.1	1494.7	1547.7	1537.2
40°	1025.4	1275.7	1404.3	1440.8	1424.3
42.5°	944.6	1188.8	1313.9	1337.4	1317.4
45°	863.8	1104.5	1218.3	1239.2	1213.1
47.5°	789.0	1021.1	1131.4	1134.9	1109.7
50°	712.6	945.5	1052.3	1048.9	1013.2
52.5°	634.4	872.5	977.6	968.9	932.4
55°	563.1	806.4	909.0	893.3	858.6
57.5°	500.5	745.6	849.9	825.5	796.9
60°	438.8	690.0	796.0	769.1	743.0
62.5°	385.8	637.8	746.5	718.7	696.1
65°	333.7	595.3	702.1	672.6	649.1
67.5°	290.2	552.7	662.2	629.1	606.6
70°	251.1	517.0	623.1	584.8	559.6
72.5°	212.9	485.8	585.7	534.4	512.7
75°	176.4	453.6	541.4	489.2	466.6
77.5°	145.1	424.1	491.0	441.4	423.2
80°	110.4	393.7	440.6	396.3	380.6
82.5°	78.2	350.2	391.0	351.1	339.8
85°	47.8	298.9	338.0	308.5	297.2
87.5°	20.9	246.8	291.1	266.8	259.0
90°	2.6	207.7	254.6	234.6	227.7
92.5°	0.9	182.5	235.5	219.0	211.2
95°	0.0	157.3	222.5	212.0	205.1
97.5°	0.0	127.7	210.3	205.9	199.0
100°	0.0	82.6	194.7	197.3	191.2
102.5°	0.0	34.8	176.4	187.7	182.5
105°	0.0	32.2	152.9	177.3	174.7
107.5°	0.0	29.5	120.8	163.4	161.6
110°	0.0	26.9	62.6	146.9	147.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	24.3	15.6	125.1	130.3
115°	0.0	21.7	14.8	71.3	108.6
117.5°	0.0	20.0	13.0	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	13.0	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	4.3	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)