

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: P232611

Luminaire Tested: **4SKB1-LD5-7-W-UNV-L850-CD1-RS-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232611
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-LD5-7-W-UNV-L850-CD1-RS-U
Description: METALUX SKYBAR 4' WAVESTREAM STRIP
WITH WIDE LENS AND REFLECTOR
Light Source: (238) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6955.0 lumens
Efficiency: N/A
Efficacy: 132.0 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

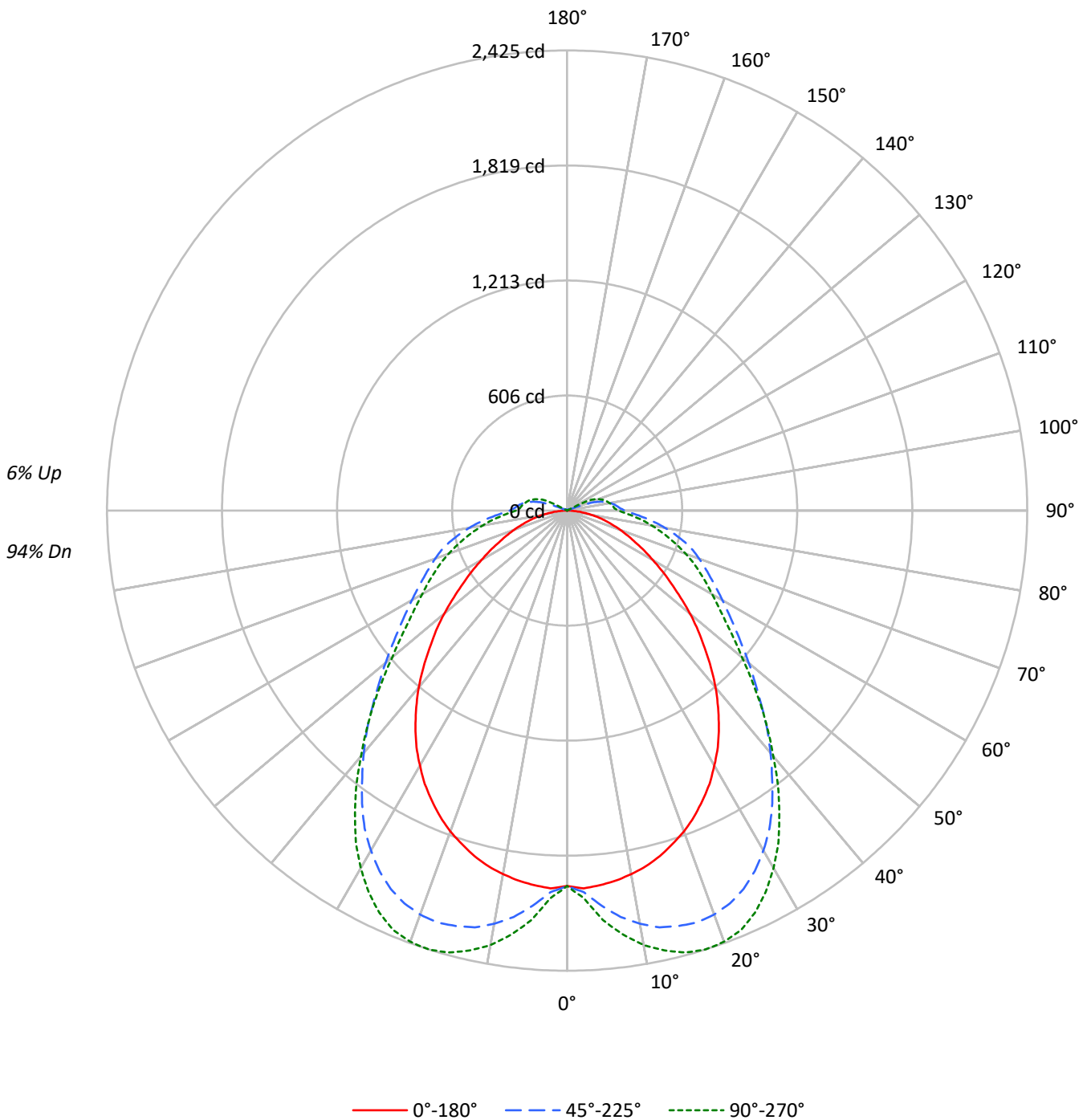
Input Watts (W): 52.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P232611

CATALOG NUMBER: 4SKB1-LD5-7-W-UNV-L850-CD1-RS-U

Luminous Intensity Polar Plot





TEST NUMBER: P232611

CATALOG NUMBER: 4SKB1-LD5-7-W-UNV-L850-CD1-RS-U

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°	21296	21296	21296
5°	21276	20983	21238
10°	20994	20927	21077
15°	20611	20451	20466
20°	20085	19672	19441
25°	19372	18550	17995
30°	18504	17068	16156
35°	17423	15346	14100
40°	16117	13497	12004
45°	14548	11732	10117
50°	13033	10231	8426
55°	11360	8992	7174
60°	9956	8078	6286
65°	8724	7372	5604
70°	7816	6829	4971
75°	6846	6257	4302
80°	5745	5429	3677
85°	3819	4498	3039



TEST NUMBER: P232611

CATALOG NUMBER: 4SKB1-LD5-7-W-UNV-L850-CD1-RS-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.2	2.9
10°-20°	628.7	9.0
20°-30°	979.2	14.1
30°-40°	1125.8	16.2
40°-50°	1054.7	15.2
50°-60°	887.2	12.8
60°-70°	726.7	10.4
70°-80°	565.8	8.1
80°-90°	364.6	5.2
90°-100°	224.4	3.2
100°-110°	139.5	2.0
110°-120°	45.9	0.7
120°-130°	6.2	0.1
130°-140°	2.9	0.0
140°-150°	1.0	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1810.0	26.0
0°-40°	2935.9	42.2
0°-60°	4877.8	70.1
0°-90°	6534.9	94.0
90°-120°	409.9	5.9
90°-150°	420.0	6.0
90°-180°	420.0	6.0
0°-180°	6955.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1978	1978	1978	1978	1978	
5°	1982	2023	2091	2159	2166	188
15°	1886	2097	2266	2393	2411	531
25°	1687	1994	2200	2327	2340	776
35°	1394	1703	1885	1962	1950	869
45°	1025	1311	1446	1471	1440	793
55°	668	957	1079	1060	1019	603
65°	396	707	834	798	771	398
75°	209	538	643	581	554	224
85°	57	355	401	366	353	62
90°	3	246	302	278	270	4
95°	0	187	264	252	243	0
105°	0	38	182	210	207	0
115°	0	26	18	85	129	0
125°	0	16	12	0	0	0
135°	0	7	7	0	0	0
145°	1	2	3	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



TEST NUMBER: P232611

CATALOG NUMBER: 4SKB1-LD5-7-W-UNV-L850-CD1-RS-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1978.5	1978.5	1978.5	1978.5	1978.5
2.5°	1992.9	1997.1	2012.5	2052.8	2044.5
5°	1981.6	2022.9	2090.9	2159.0	2166.2
7.5°	1967.1	2057.9	2160.0	2246.7	2253.9
10°	1945.5	2081.6	2210.6	2315.8	2325.1
12.5°	1919.7	2097.1	2249.8	2365.3	2374.6
15°	1885.7	2097.1	2266.3	2393.2	2410.7
17.5°	1843.4	2088.9	2275.6	2408.6	2425.2
20°	1800.0	2069.3	2265.3	2402.5	2417.9
22.5°	1747.4	2038.3	2240.5	2374.6	2393.2
25°	1686.6	1994.0	2200.3	2327.2	2339.5
27.5°	1624.7	1938.3	2141.5	2257.0	2266.3
30°	1551.4	1869.2	2068.2	2171.4	2175.5
32.5°	1478.2	1795.9	1985.7	2075.5	2072.4
35°	1393.6	1703.1	1884.6	1962.0	1949.6
37.5°	1305.9	1613.3	1774.3	1837.2	1824.8
40°	1217.2	1514.3	1667.0	1710.3	1690.7
42.5°	1121.3	1411.1	1559.7	1587.5	1563.8
45°	1025.4	1311.1	1446.2	1471.0	1440.0
47.5°	936.6	1212.1	1343.1	1347.2	1317.3
50°	845.9	1122.3	1249.2	1245.1	1202.8
52.5°	753.0	1035.7	1160.5	1150.2	1106.8
55°	668.4	957.3	1079.0	1060.4	1019.2
57.5°	594.2	885.1	1008.8	980.0	945.9
60°	520.9	819.0	944.9	912.9	882.0
62.5°	458.0	757.2	886.1	853.1	826.3
65°	396.1	706.6	833.5	798.4	770.6
67.5°	344.5	656.1	786.0	746.8	720.0
70°	298.1	613.8	739.6	694.2	664.3
72.5°	252.7	576.6	695.3	634.4	608.6
75°	209.4	538.5	642.6	580.8	553.9
77.5°	172.3	503.4	582.8	524.0	502.4
80°	131.0	467.3	523.0	470.4	451.8
82.5°	92.8	415.7	464.2	416.7	403.3
85°	56.7	354.9	401.3	366.2	352.8
87.5°	24.8	293.0	345.6	316.7	307.4
90°	3.1	246.5	302.2	278.5	270.3
92.5°	1.0	216.6	279.5	259.9	250.7
95°	0.0	186.7	264.1	251.7	243.4
97.5°	0.0	151.6	249.6	244.5	236.2
100°	0.0	98.0	231.1	234.2	226.9
102.5°	0.0	41.3	209.4	222.8	216.6
105°	0.0	38.2	181.6	210.4	207.3
107.5°	0.0	35.1	143.4	193.9	191.9
110°	0.0	32.0	74.3	174.3	175.4



TEST NUMBER: P232611

CATALOG NUMBER: 4SKB1-LD5-7-W-UNV-L850-CD1-RS-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	28.9	18.6	148.5	154.7
115°	0.0	25.8	17.5	84.6	128.9
117.5°	0.0	23.7	15.5	1.0	44.4
120°	0.0	20.6	14.4	1.0	0.0
122.5°	0.0	17.5	13.4	0.0	0.0
125°	0.0	15.5	12.4	0.0	0.0
127.5°	0.0	13.4	10.3	0.0	0.0
130°	0.0	11.3	9.3	0.0	0.0
132.5°	0.0	9.3	8.3	0.0	0.0
135°	0.0	7.2	7.2	0.0	0.0
137.5°	0.0	6.2	6.2	0.0	0.0
140°	0.0	4.1	5.2	0.0	0.0
142.5°	1.0	3.1	4.1	0.0	0.0
145°	1.0	2.1	3.1	0.0	0.0
147.5°	1.0	2.1	3.1	0.0	0.0
150°	1.0	1.0	2.1	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)