

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P895325

Luminaire Tested: 8TMB-SC3-AOL-UNV-CC93-LOW-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895325
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-14)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-SC3-AOL-UNV-CC93-LOW-3500K
Description: Selectable 8FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS NO UPLIGHT, 900
3500K CCT, LOW lumen setting
Light Source: -
Ballast/Driver: -

Summary

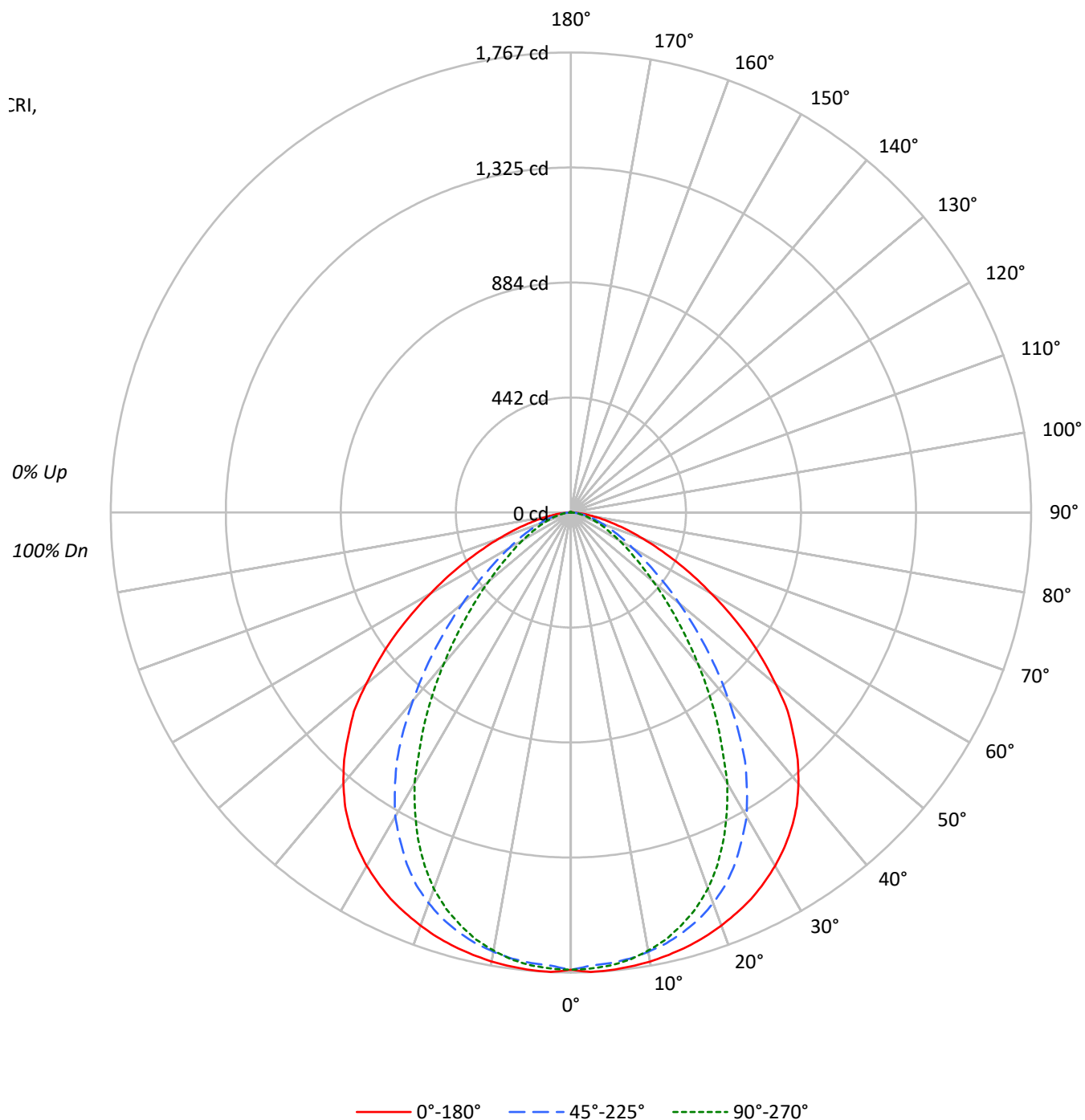
Lumens per Lamp: N/A
Luminaire Lumens: 3508.9 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.06 / 1.16
Luminous Opening: Rectangular (W 0.27' x L: 7.98' x H: 0')
CIE Type: Direct

Input Watts (W): 33.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.9915
Total Harmonic Distortion (THDi): 6.67573310469889
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	107	103	100	108	104	101	98	100	98	95		96	94	92		93
2	102	95	89	85	100	93	88	84	90	85	82		87	83	80		84
3	94	85	78	73	92	84	77	72	81	75	71		78	73	70		76
4	87	77	69	63	85	76	68	63	73	67	62		71	66	61		69
5	81	70	62	56	79	69	61	55	67	60	55		65	59	54		63
6	75	63	55	50	74	63	55	49	61	54	49		59	53	49		58
7	70	58	50	45	69	57	50	44	56	49	44		54	48	44		53
8	66	53	46	40	64	53	45	40	51	45	40		50	44	40		49
9	62	49	42	37	60	49	42	37	48	41	36		47	41	36		46
10	58	46	38	34	57	45	38	33	44	38	33		43	37	33		43

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8921	8921	8921
5°	8994	8858	8904
10°	9031	8836	8812
15°	9077	8772	8627
20°	9126	8631	8312
25°	9177	8350	7773
30°	9193	7910	7039
35°	9163	7226	6055
40°	9010	6254	5031
45°	8676	5255	4072
50°	8118	4280	3261
55°	7335	3440	2615
60°	6326	2799	2166
65°	5354	2331	1780
70°	4370	1982	1512
75°	3501	1672	1285
80°	2726	1430	1106
85°	2115	1264	996

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8676 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.3	4.7
10°-20°	473.4	13.5
20°-30°	689.9	19.7
30°-40°	743.7	21.2
40°-50°	623.5	17.8
50°-60°	422.1	12.0
60°-70°	240.7	6.9
70°-80°	110.1	3.1
80°-90°	28.8	0.8
90°-100°	3.5	0.1
100°-110°	2.4	0.1
110°-120°	1.3	0.0
120°-130°	0.8	0.0
130°-140°	0.7	0.0
140°-150°	0.6	0.0
150°-160°	0.5	0.0
160°-170°	0.4	0.0
170°-180°	0.2	0.0
0°-30°	1329.7	37.9
0°-40°	2073.4	59.1
0°-60°	3118.9	88.9
0°-90°	3498.5	99.7
90°-120°	7.2	0.2
90°-150°	9.3	0.3
90°-180°	10.0	0.3
0°-180°	3508.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1757	1757	1757	1757	1757	
5°	1764	1759	1738	1752	1746	168
15°	1726	1711	1668	1657	1641	488
25°	1638	1594	1490	1422	1387	755
35°	1478	1367	1166	1023	977	923
45°	1208	1008	732	603	567	930
55°	828	606	388	315	295	738
65°	446	310	194	157	148	444
75°	178	131	85	70	66	195
85°	36	31	22	18	17	42
90°	5	5	3	2	2	5
95°	8	4	2	2	2	6
105°	5	4	2	1	0	5
115°	2	2	1	0	0	2
125°	1	1	1	0	0	1
135°	0	1	1	1	0	1
145°	1	1	1	1	1	1
155°	1	1	1	2	2	0
165°	1	2	2	2	2	0
175°	2	2	2	2	2	0
180°	2	2	2	2	2	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1756.6	1756.6	1756.6	1756.6	1756.6
2.5°	1766.7	1762.1	1742.0	1758.6	1753.6
5°	1764.2	1758.6	1737.5	1751.6	1746.5
7.5°	1759.1	1752.1	1728.4	1739.0	1732.4
10°	1751.1	1742.5	1713.3	1719.3	1708.7
12.5°	1740.0	1729.4	1694.6	1693.1	1680.5
15°	1726.4	1711.3	1668.4	1657.3	1640.7
17.5°	1709.7	1690.6	1637.2	1615.0	1594.9
20°	1688.6	1663.9	1596.9	1561.6	1537.9
22.5°	1664.4	1631.1	1550.0	1493.6	1467.9
25°	1637.7	1594.4	1490.0	1421.5	1387.2
27.5°	1604.4	1550.0	1420.5	1331.8	1296.5
30°	1567.6	1498.6	1348.9	1235.6	1200.3
32.5°	1525.8	1439.7	1257.7	1131.8	1082.4
35°	1477.9	1366.6	1165.5	1022.9	976.6
37.5°	1424.0	1290.5	1055.2	913.1	866.2
40°	1359.0	1200.3	943.3	802.7	758.9
42.5°	1289.0	1108.6	836.0	697.9	660.1
45°	1207.9	1007.8	731.7	603.2	566.9
47.5°	1129.8	906.0	633.9	516.5	486.8
50°	1027.5	797.7	541.7	437.4	412.7
52.5°	927.7	697.4	463.1	373.9	350.7
55°	828.4	606.2	388.5	314.9	295.3
57.5°	723.6	517.0	327.0	266.6	253.5
60°	622.8	439.9	275.6	223.7	213.2
62.5°	530.6	368.9	233.3	189.0	178.9
65°	445.5	309.9	194.0	157.2	148.1
67.5°	364.8	255.0	161.8	131.0	124.5
70°	294.3	206.6	133.5	107.8	101.8
72.5°	233.3	165.3	106.8	88.2	81.6
75°	178.4	131.0	85.2	69.5	65.5
77.5°	133.0	98.8	65.5	53.4	50.4
80°	93.2	71.6	48.9	40.3	37.8
82.5°	63.5	49.4	34.3	28.2	26.7
85°	36.3	30.7	21.7	18.1	17.1
87.5°	18.6	16.1	11.6	8.6	7.6
90°	5.0	5.0	3.0	2.5	2.0
92.5°	8.1	4.5	3.0	2.0	1.5
95°	7.6	4.5	2.5	1.5	1.5
97.5°	7.1	4.5	2.0	1.5	1.0
100°	6.6	4.0	2.0	1.0	1.0
102.5°	6.0	4.0	2.0	1.0	1.0
105°	5.0	3.5	1.5	1.0	0.5
107.5°	4.5	3.0	1.5	1.0	0.5
110°	3.5	2.5	1.5	1.0	0.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.0	2.5	1.0	1.0	0.5
115°	2.5	2.0	1.0	0.5	0.5
117.5°	2.0	1.5	1.0	0.5	0.5
120°	1.5	1.5	1.0	0.5	0.5
122.5°	1.5	1.0	1.0	0.5	0.5
125°	1.0	1.0	1.0	0.5	0.5
127.5°	1.0	1.0	1.0	0.5	0.5
130°	1.0	1.0	1.0	0.5	0.5
132.5°	1.0	1.0	1.0	1.0	0.5
135°	0.5	1.0	1.0	1.0	0.5
137.5°	1.0	1.0	1.0	1.0	1.0
140°	1.0	1.0	1.0	1.0	1.0
142.5°	1.0	1.0	1.0	1.0	1.0
145°	1.0	1.0	1.0	1.0	1.0
147.5°	1.0	1.0	1.0	1.0	1.0
150°	1.0	1.0	1.0	1.0	1.0
152.5°	1.0	1.0	1.0	1.0	1.0
155°	1.0	1.0	1.0	1.5	1.5
157.5°	1.0	1.0	1.5	1.5	1.5
160°	1.0	1.0	1.5	1.5	1.5
162.5°	1.0	1.0	1.5	1.5	1.5
165°	1.0	1.5	1.5	1.5	1.5
167.5°	1.0	1.5	1.5	1.5	2.0
170°	1.0	1.5	1.5	2.0	2.0
172.5°	1.0	1.5	1.5	2.0	2.0
175°	1.5	1.5	1.5	2.0	2.0
177.5°	1.5	1.5	1.5	2.0	2.0
180°	1.5	1.5	1.5	1.5	1.5

(END OF REPORT)