

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: P895307

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895307
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-15)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-SC3-ACL-UNV-CC93-LOW-3500K
Description: Selectable 8FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS, 90CRI, 3500K CC
LOW lumen setting
Light Source: -
Ballast/Driver: -

Summary

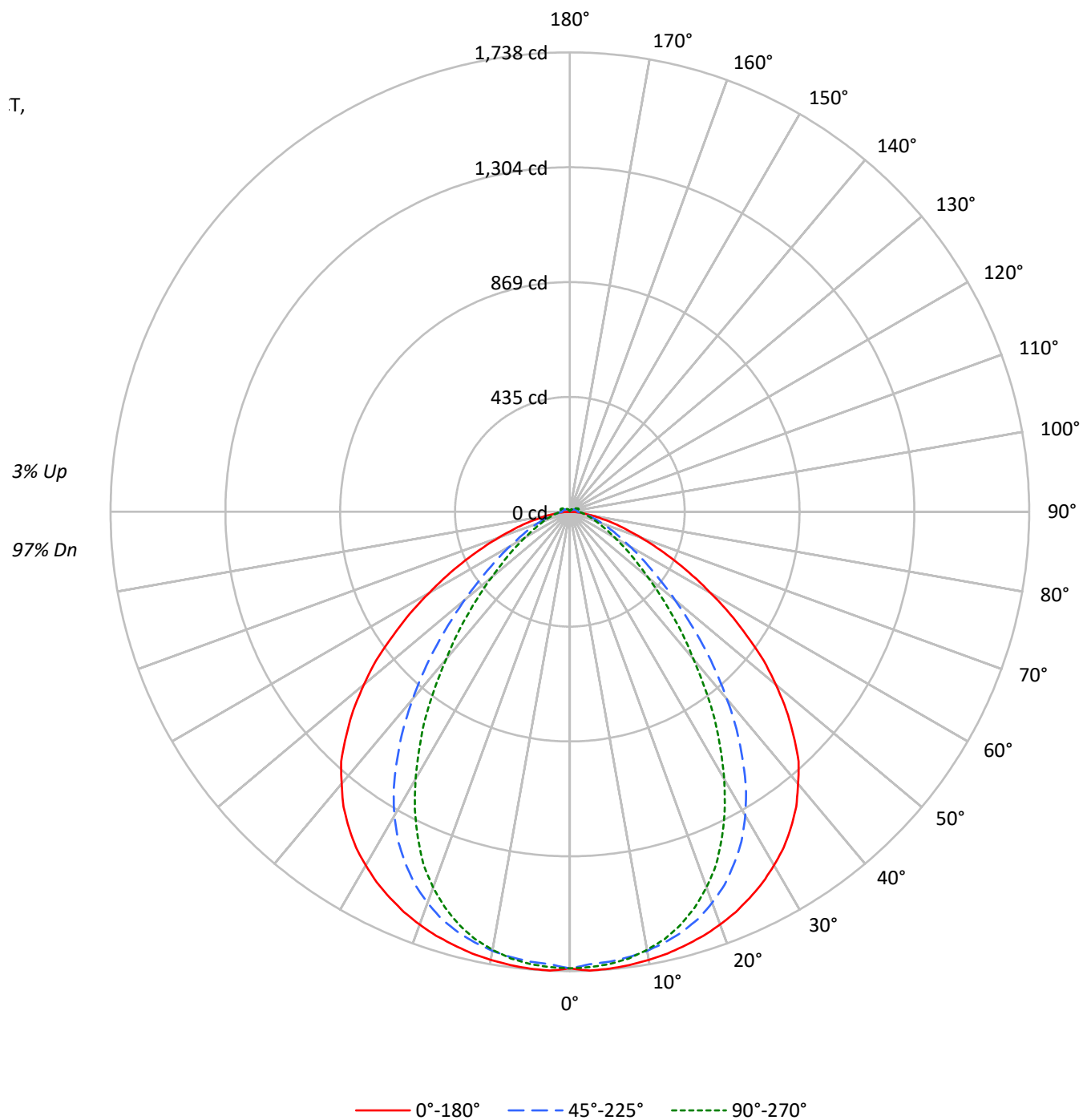
Lumens per Lamp: N/A
Luminaire Lumens: 3544.0 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.06 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 7.98' x H: 0.08')
CIE Type: Direct

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	118	118	118	118	115	115	115	115	110	110	110		104	104	104		100
1	110	106	102	99	107	103	100	97	99	96	93		94	92	90		90
2	101	94	88	84	99	92	87	82	88	84	80		85	81	78		82
3	94	85	77	72	91	83	76	71	80	74	69		77	72	68		74
4	87	76	68	62	84	75	67	62	72	66	61		69	64	60		67
5	80	69	61	55	78	68	60	55	65	59	54		63	58	53		61
6	75	63	55	49	73	62	54	49	60	53	48		58	52	47		56
7	70	57	50	44	68	57	49	44	55	48	43		53	47	43		52
8	65	53	45	40	64	52	45	40	51	44	39		49	43	39		48
9	61	49	41	36	60	48	41	36	47	40	36		46	40	35		45
10	58	45	38	33	56	45	38	33	44	37	33		43	37	32		42

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8774	8774	8774
5°	8838	8541	8522
10°	8862	8361	8224
15°	8897	8149	7849
20°	8949	7854	7337
25°	8985	7443	6655
30°	9004	6875	5798
35°	8977	6080	4850
40°	8830	5140	3817
45°	8504	4152	2960
50°	7933	3225	2220
55°	7118	2471	1698
60°	6134	1902	1293
65°	5135	1503	1028
70°	4133	1207	840
75°	3322	975	715
80°	2477	808	626
85°	1786	689	577

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8504 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.6	4.6
10°-20°	466.2	13.2
20°-30°	679.6	19.2
30°-40°	730.2	20.6
40°-50°	607.7	17.1
50°-60°	406.5	11.5
60°-70°	232.7	6.6
70°-80°	115.7	3.3
80°-90°	47.3	1.3
90°-100°	27.5	0.8
100°-110°	24.2	0.7
110°-120°	17.8	0.5
120°-130°	11.4	0.3
130°-140°	6.8	0.2
140°-150°	3.8	0.1
150°-160°	1.9	0.1
160°-170°	0.8	0.0
170°-180°	0.2	0.0
0°-30°	1309.4	36.9
0°-40°	2039.6	57.6
0°-60°	3053.8	86.2
0°-90°	3449.5	97.3
90°-120°	69.5	2.0
90°-150°	91.6	2.6
90°-180°	94.0	2.7
0°-180°	3544.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1728	1728	1728	1728	1728	
5°	1735	1730	1709	1723	1718	165
15°	1697	1685	1645	1633	1618	480
25°	1611	1573	1470	1396	1361	743
35°	1458	1353	1138	998	954	911
45°	1196	994	711	575	541	920
55°	816	589	370	293	278	731
65°	437	296	186	151	143	437
75°	176	128	92	82	79	189
85°	34	38	43	45	45	40
90°	5	16	29	35	36	5
95°	8	16	29	35	36	6
105°	5	13	26	34	35	5
115°	2	8	20	28	30	2
125°	2	5	14	20	22	1
135°	1	4	9	14	15	1
145°	1	3	6	9	11	1
155°	1	2	4	6	7	0
165°	2	2	3	4	4	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°	1727.6	1727.6	1727.6	1727.6	1727.6
2.5°	1737.7	1733.2	1713.5	1729.1	1724.6
5°	1735.2	1729.6	1709.0	1723.1	1717.5
7.5°	1729.6	1723.6	1699.9	1711.0	1704.9
10°	1721.6	1714.0	1686.8	1692.3	1682.8
12.5°	1711.5	1701.9	1668.1	1666.6	1656.0
15°	1696.9	1685.3	1645.0	1632.9	1618.2
17.5°	1681.7	1664.6	1615.2	1590.5	1570.4
20°	1662.1	1639.4	1574.4	1537.6	1512.4
22.5°	1639.4	1608.7	1528.5	1472.1	1445.9
25°	1611.2	1572.9	1470.1	1396.0	1361.2
27.5°	1581.0	1530.1	1406.6	1309.3	1269.5
30°	1544.7	1481.7	1327.5	1210.5	1167.7
32.5°	1506.4	1420.2	1240.8	1106.7	1059.8
35°	1458.5	1352.7	1138.0	997.9	954.0
37.5°	1406.6	1272.0	1036.2	886.5	837.1
40°	1343.6	1186.8	924.3	776.1	727.2
42.5°	1281.1	1094.1	816.9	676.3	634.0
45°	1196.4	994.3	710.6	575.0	541.3
47.5°	1111.3	887.5	608.8	492.9	459.6
50°	1016.5	782.7	519.6	413.8	386.0
52.5°	924.3	684.9	438.5	349.8	326.1
55°	815.9	588.6	370.4	292.8	277.7
57.5°	718.2	499.4	312.5	248.0	233.8
60°	614.8	423.3	261.6	209.7	196.5
62.5°	524.1	355.8	220.2	177.9	168.8
65°	436.9	296.3	186.5	151.2	143.1
67.5°	356.8	247.4	157.2	129.0	122.5
70°	286.3	200.6	132.5	109.9	105.3
72.5°	225.3	161.3	110.4	94.7	90.7
75°	175.9	128.0	92.2	81.6	79.1
77.5°	127.0	99.8	77.1	70.1	68.5
80°	89.7	75.6	63.5	60.5	59.5
82.5°	59.5	54.9	52.4	52.4	51.9
85°	34.3	38.3	42.8	44.9	45.4
87.5°	17.6	25.7	34.3	38.3	38.8
90°	5.0	16.1	29.2	34.8	35.8
92.5°	7.6	16.1	28.7	34.8	35.8
95°	7.6	16.1	28.7	34.8	35.8
97.5°	7.1	15.6	28.7	34.8	35.8
100°	6.6	14.6	28.2	34.8	35.8
102.5°	5.5	14.1	27.2	34.3	35.8
105°	5.0	13.1	25.7	33.8	35.3
107.5°	4.5	11.1	24.2	32.3	34.3
110°	3.5	9.6	23.2	30.7	33.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.0	8.6	21.7	29.2	31.8
115°	2.5	7.6	20.2	27.7	30.2
117.5°	2.0	7.1	18.1	25.7	28.2
120°	1.5	6.6	16.6	24.2	26.2
122.5°	1.5	6.0	14.6	22.2	24.2
125°	1.5	5.0	13.6	20.2	22.2
127.5°	1.0	4.5	12.1	18.1	20.2
130°	1.0	4.5	11.1	16.6	18.1
132.5°	1.0	4.0	10.1	15.1	16.6
135°	1.0	4.0	9.1	13.6	15.1
137.5°	1.0	3.5	8.1	12.6	14.1
140°	1.0	3.5	7.6	11.1	12.6
142.5°	1.0	3.0	6.6	10.6	11.6
145°	1.0	3.0	6.0	9.1	10.6
147.5°	1.0	3.0	5.5	8.6	9.6
150°	1.0	2.5	5.0	7.1	8.6
152.5°	1.0	2.5	4.5	6.6	8.1
155°	1.0	2.5	4.0	5.5	7.1
157.5°	1.0	2.5	4.0	5.0	6.0
160°	1.5	2.0	3.5	4.5	5.5
162.5°	1.5	2.0	3.0	4.0	5.0
165°	1.5	2.0	3.0	3.5	4.5
167.5°	1.5	2.0	2.5	3.0	3.5
170°	1.5	1.5	2.5	2.5	2.5
172.5°	1.5	1.5	2.0	2.5	2.0
175°	1.5	1.5	2.0	2.0	2.0
177.5°	1.5	1.5	2.0	2.0	2.0
180°	1.5	1.5	1.5	1.5	1.5

(END OF REPORT)