

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: P895290

Luminaire Tested: 8TMB-SC3-A-UNV-CC93-LOW-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895290
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-16)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-SC3-A-UNV-CC93-LOW-4000K
Description: Selectable 8FT MICROBAY LINEAR BAY with AISLE OPTIC, 90CRI, 4000K CCT, LOW lumen settir
Light Source: -
Ballast/Driver: -

Summary

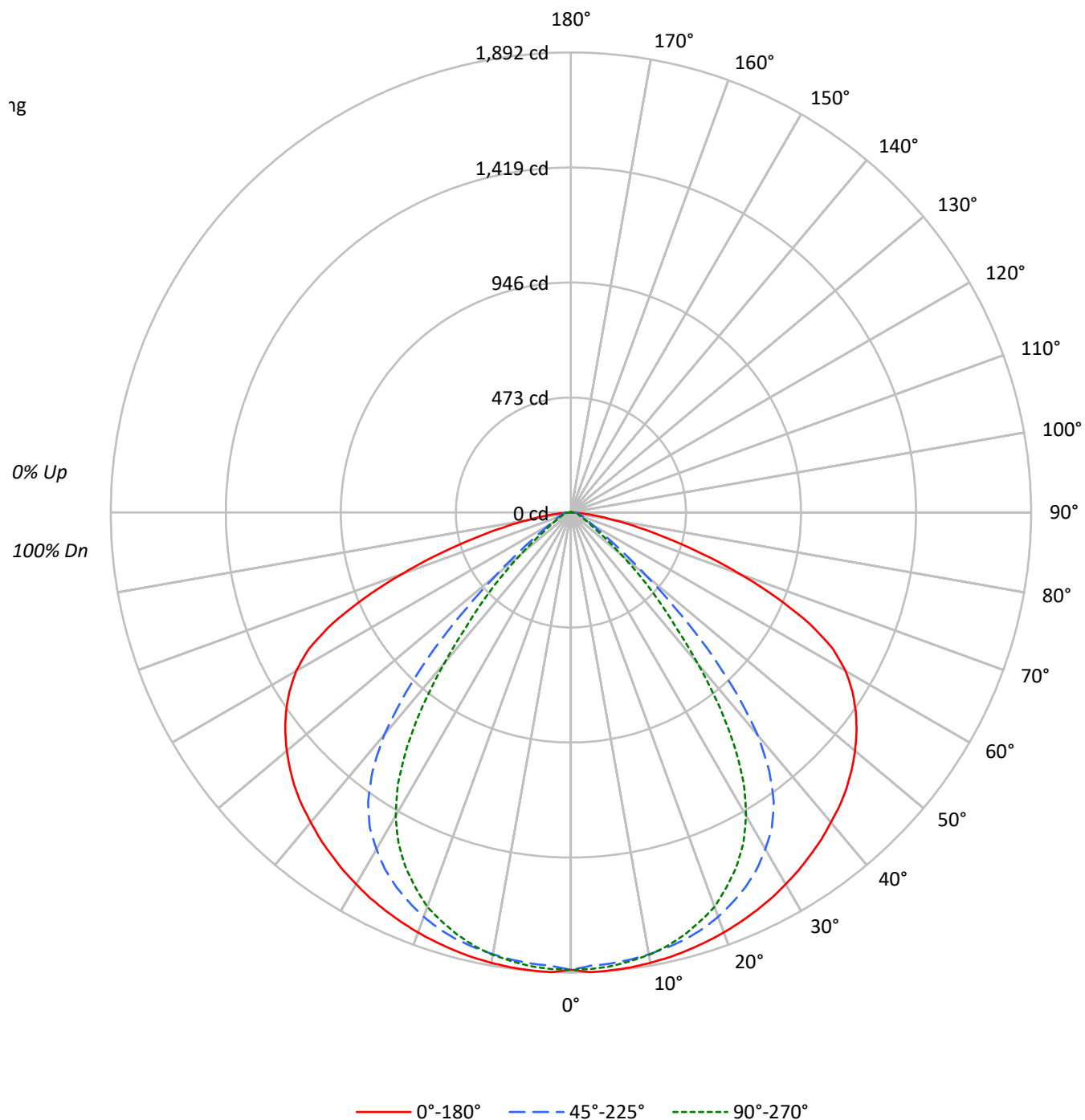
Lumens per Lamp: N/A
Luminaire Lumens: 3855.9 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Spacing Criteria (0/90/45): 1.41 / 1.15 / 1.23
Luminous Opening: Rectangular (W 0.27' x L: 7.98' x H: 0')
CIE Type: Direct

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	105	102	99	100	98	96		97	95	93		93
2	103	96	90	85	100	94	89	84	91	86	82		87	84	81		84
3	95	86	79	74	93	85	78	73	82	76	72		79	74	71		77
4	88	78	70	65	86	77	70	64	74	68	63		72	67	62		70
5	82	71	63	57	80	70	62	57	68	61	56		66	60	56		64
6	76	64	56	51	74	63	56	51	62	55	50		60	54	50		59
7	71	59	51	46	69	58	51	45	57	50	45		55	49	45		54
8	66	54	47	41	65	54	46	41	52	46	41		51	45	41		50
9	62	50	43	38	61	50	42	37	48	42	37		47	41	37		46
10	59	46	39	34	57	46	39	34	45	39	34		44	38	34		43

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9553	9553	9553
5°	9637	9494	9550
10°	9698	9515	9529
15°	9794	9556	9458
20°	9933	9564	9331
25°	10118	9523	9015
30°	10354	9374	8449
35°	10649	9013	7264
40°	11029	7916	5369
45°	11514	5712	3611
50°	12049	3191	2155
55°	12665	1650	1179
60°	13248	1074	835
65°	13022	882	663
70°	10982	812	618
75°	8079	828	663
80°	5390	974	836
85°	2943	1579	1276

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 62.5°

Luminance: 13361 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.6	4.6
10°-20°	516.1	13.4
20°-30°	785.1	20.4
30°-40°	896.7	23.3
40°-50°	723.4	18.8
50°-60°	396.0	10.3
60°-70°	208.8	5.4
70°-80°	102.4	2.7
80°-90°	36.1	0.9
90°-100°	7.8	0.2
100°-110°	1.1	0.0
110°-120°	0.6	0.0
120°-130°	0.6	0.0
130°-140°	0.6	0.0
140°-150°	0.7	0.0
150°-160°	0.7	0.0
160°-170°	0.5	0.0
170°-180°	0.2	0.0
0°-30°	1479.9	38.4
0°-40°	2376.6	61.6
0°-60°	3495.9	90.7
0°-90°	3843.2	99.7
90°-120°	9.4	0.2
90°-150°	11.3	0.3
90°-180°	13.0	0.3
0°-180°	3855.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1881	1881	1881	1881	1881	
5°	1890	1885	1862	1879	1873	180
15°	1863	1851	1818	1814	1799	527
25°	1806	1780	1699	1642	1609	834
35°	1718	1645	1454	1256	1172	1078
45°	1603	1377	795	543	503	1237
55°	1430	589	186	144	133	1276
65°	1084	136	73	59	55	1048
75°	412	76	42	35	34	455
85°	50	40	27	24	22	70
90°	2	21	17	15	14	3
95°	2	3	6	9	8	1
105°	0	0	0	1	1	1
115°	0	0	0	1	0	0
125°	0	0	0	1	0	0
135°	0	0	1	1	0	0
145°	1	1	1	2	1	1
155°	1	1	2	2	2	0
165°	1	2	2	2	2	0
175°	2	2	2	3	2	0
180°	2	2	2	2	2	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1881.0	1881.0	1881.0	1881.0	1881.0
2.5°	1892.5	1887.3	1865.9	1884.2	1878.9
5°	1890.4	1884.7	1862.3	1878.9	1873.2
7.5°	1886.8	1879.5	1855.0	1870.1	1861.3
10°	1880.5	1873.2	1845.1	1857.1	1847.7
12.5°	1873.2	1863.3	1832.1	1838.3	1826.4
15°	1862.8	1851.4	1817.5	1814.4	1798.8
17.5°	1851.4	1837.3	1796.2	1782.7	1763.9
20°	1837.8	1820.7	1769.6	1743.1	1726.4
22.5°	1822.7	1800.4	1736.3	1695.7	1669.7
25°	1805.6	1779.5	1699.4	1641.6	1608.8
27.5°	1787.3	1751.9	1654.6	1578.6	1534.4
30°	1765.5	1722.8	1598.4	1495.9	1440.7
32.5°	1743.6	1686.4	1538.0	1389.2	1323.6
35°	1717.6	1645.2	1453.7	1255.9	1171.6
37.5°	1693.1	1595.8	1339.7	1088.9	998.3
40°	1663.5	1537.5	1194.0	896.8	809.9
42.5°	1635.4	1469.8	1005.1	711.5	636.0
45°	1603.1	1377.2	795.3	543.4	502.8
47.5°	1565.6	1250.7	578.3	404.4	378.9
50°	1525.0	1076.9	403.9	293.6	272.7
52.5°	1480.3	842.1	272.2	204.0	192.6
55°	1430.3	588.7	186.3	144.2	133.2
57.5°	1372.5	383.1	135.3	108.8	101.5
60°	1304.3	244.6	105.7	86.4	82.2
62.5°	1214.8	171.8	86.9	71.3	67.7
65°	1083.6	135.8	73.4	59.3	55.2
67.5°	917.6	115.0	63.0	50.0	47.4
70°	739.6	99.9	54.7	43.2	41.6
72.5°	568.4	87.4	47.4	38.5	37.5
75°	411.7	76.5	42.2	35.4	33.8
77.5°	285.2	66.1	37.5	31.7	30.7
80°	184.3	57.3	33.3	29.1	28.6
82.5°	105.7	47.9	30.2	28.1	27.6
85°	50.5	40.1	27.1	24.5	21.9
87.5°	16.1	29.7	21.3	18.7	16.7
90°	2.1	20.8	16.7	14.6	13.5
92.5°	2.1	11.5	12.0	12.0	11.5
95°	1.6	2.6	5.7	8.8	8.3
97.5°	1.6	1.0	3.6	6.2	6.2
100°	1.0	0.5	1.6	4.2	4.2
102.5°	1.0	0.5	0.5	2.6	2.6
105°	0.5	0.0	0.5	1.0	1.0
107.5°	0.5	0.5	0.5	1.0	0.5
110°	0.5	0.5	0.5	1.0	0.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.5	0.5	0.5	1.0	0.5
115°	0.5	0.5	0.5	1.0	0.5
117.5°	0.5	0.5	0.5	1.0	0.5
120°	0.5	0.5	0.5	1.0	0.5
122.5°	0.5	0.5	0.5	1.0	0.5
125°	0.5	0.5	0.5	1.0	0.5
127.5°	0.5	0.5	0.5	1.0	0.5
130°	0.5	0.5	1.0	1.0	0.5
132.5°	0.5	0.5	1.0	1.0	0.5
135°	0.5	0.5	1.0	1.0	0.5
137.5°	0.5	0.5	1.0	1.0	1.0
140°	1.0	0.5	1.0	1.0	1.0
142.5°	1.0	1.0	1.0	1.6	1.0
145°	1.0	1.0	1.0	1.6	1.0
147.5°	1.0	1.0	1.6	1.6	1.0
150°	1.0	1.0	1.6	1.6	1.0
152.5°	1.0	1.0	1.6	1.6	1.6
155°	1.0	1.0	1.6	2.1	1.6
157.5°	1.0	1.0	1.6	2.1	1.6
160°	1.0	1.6	2.1	2.1	1.6
162.5°	1.0	1.6	2.1	2.1	2.1
165°	1.0	1.6	2.1	2.1	2.1
167.5°	1.6	1.6	2.1	2.6	2.1
170°	1.6	1.6	2.1	2.6	2.1
172.5°	1.6	1.6	2.1	2.6	2.1
175°	1.6	1.6	2.1	2.6	2.1
177.5°	1.6	1.6	2.1	2.6	2.6
180°	2.1	2.1	2.1	2.1	2.1

(END OF REPORT)