

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: P895291

Luminaire Tested: 8TMB-SC3-A-UNV-CC93-LOW-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895291
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-5000K
Description: Selectable 8FT MICROBAY LINEAR BAY with AISLE OPTIC, 90CRI, 5000K CCT, LOW lumen settir
Light Source: -
Ballast/Driver: -

Summary

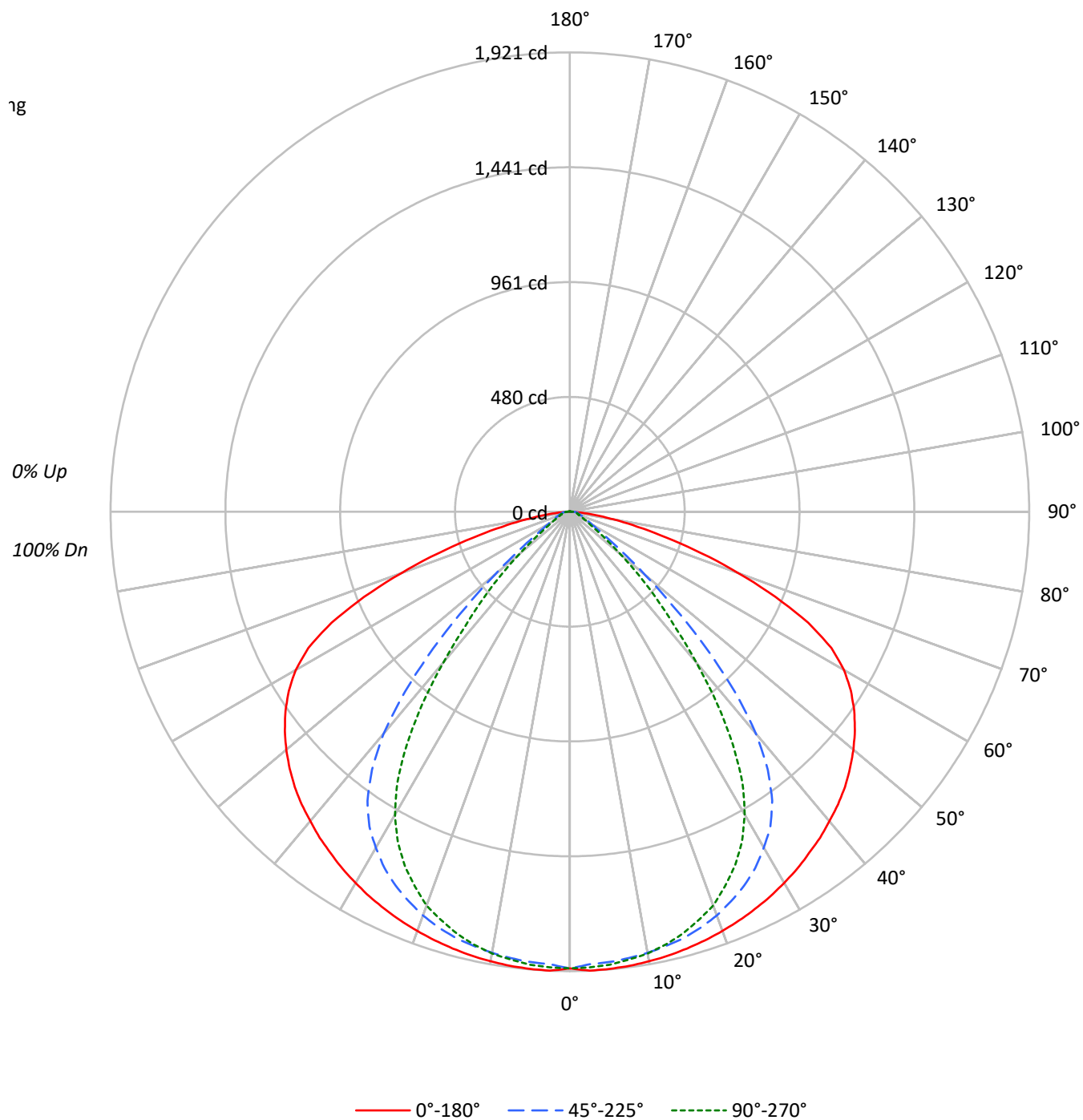
Lumens per Lamp: N/A
Luminaire Lumens: 3914.0 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.15 / 1.23
Luminous Opening: Rectangular (W 0.27' x L: 7.98' x H: 0')
CIE Type: Direct

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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	107	103	100	108	105	102	99	100	98	96	97	95	93	93	91	90	88		
2	103	96	90	85	100	94	89	84	91	86	82	87	84	81	84	81	79	77		
3	95	86	79	74	93	85	78	73	82	76	72	79	74	71	77	73	69	67		
4	88	78	70	65	86	77	70	64	74	68	63	72	67	62	70	65	62	60		
5	82	71	63	57	80	70	62	57	68	61	56	66	60	55	64	59	55	53		
6	76	64	56	51	74	63	56	51	62	55	50	60	54	50	59	53	49	47		
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43		
8	66	54	47	41	65	54	46	41	52	46	41	51	45	41	50	44	40	39		
9	62	50	43	38	61	50	42	37	48	42	37	47	41	37	46	41	37	35		
10	59	46	39	34	57	46	39	34	45	39	34	44	38	34	43	38	34	32		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9697	9697	9697
5°	9782	9637	9694
10°	9844	9659	9672
15°	9942	9700	9600
20°	10082	9708	9471
25°	10270	9666	9151
30°	10509	9514	8576
35°	10809	9149	7373
40°	11194	8035	5450
45°	11687	5798	3666
50°	12231	3239	2187
55°	12855	1674	1197
60°	13448	1089	848
65°	13218	895	673
70°	11147	824	628
75°	8200	840	673
80°	5469	989	851
85°	2984	1602	1294

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 62.5°

Luminance: 13563 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.3	4.6
10°-20°	523.9	13.4
20°-30°	797.0	20.4
30°-40°	910.2	23.3
40°-50°	734.3	18.8
50°-60°	401.9	10.3
60°-70°	211.9	5.4
70°-80°	103.9	2.7
80°-90°	36.6	0.9
90°-100°	7.9	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°	0.8	0.0
150°-160°	0.7	0.0
160°-170°	0.5	0.0
170°-180°	0.2	0.0
0°-30°	1502.2	38.4
0°-40°	2412.3	61.6
0°-60°	3548.5	90.7
0°-90°	3900.9	99.7
90°-120°	9.6	0.2
90°-150°	11.6	0.3
90°-180°	13.0	0.3
0°-180°	3914.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1909	1909	1909	1909	1909	
5°	1919	1913	1890	1907	1901	183
15°	1891	1879	1845	1842	1826	535
25°	1833	1806	1725	1666	1633	847
35°	1743	1670	1476	1275	1189	1094
45°	1627	1398	807	552	510	1256
55°	1452	598	189	146	135	1295
65°	1100	138	74	60	56	1064
75°	418	78	43	36	34	461
85°	51	41	28	25	22	71
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	1
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°	1909.3	1909.3	1909.3	1909.3	1909.3
2.5°	1920.9	1915.7	1894.0	1912.5	1907.2
5°	1918.8	1913.0	1890.3	1907.2	1901.4
7.5°	1915.1	1907.7	1882.9	1898.2	1889.2
10°	1908.8	1901.4	1872.9	1885.0	1875.5
12.5°	1901.4	1891.4	1859.7	1866.0	1853.8
15°	1890.8	1879.2	1844.9	1841.7	1825.8
17.5°	1879.2	1864.9	1823.2	1809.5	1790.5
20°	1865.5	1848.0	1796.3	1769.3	1752.4
22.5°	1850.2	1827.4	1762.5	1721.2	1694.8
25°	1832.7	1806.3	1724.9	1666.3	1633.0
27.5°	1814.2	1778.3	1679.5	1602.4	1557.5
30°	1792.0	1748.7	1622.4	1518.4	1462.4
32.5°	1769.8	1711.7	1561.2	1410.1	1343.5
35°	1743.4	1670.0	1475.6	1274.8	1189.2
37.5°	1718.6	1619.8	1359.9	1105.2	1013.3
40°	1688.5	1560.6	1211.9	910.3	822.1
42.5°	1660.0	1492.0	1020.2	722.2	645.6
45°	1627.2	1397.9	807.3	551.6	510.4
47.5°	1589.2	1269.5	587.0	410.5	384.6
50°	1548.0	1093.1	410.0	298.0	276.8
52.5°	1502.5	854.8	276.3	207.1	195.5
55°	1451.8	597.5	189.1	146.3	135.2
57.5°	1393.2	388.8	137.4	110.4	103.0
60°	1324.0	248.3	107.2	87.7	83.5
62.5°	1233.1	174.3	88.2	72.4	68.7
65°	1099.9	137.9	74.5	60.2	56.0
67.5°	931.4	116.8	63.9	50.7	48.1
70°	750.7	101.4	55.5	43.8	42.3
72.5°	576.9	88.8	48.1	39.1	38.0
75°	417.9	77.7	42.8	35.9	34.3
77.5°	289.5	67.1	38.0	32.2	31.2
80°	187.0	58.1	33.8	29.6	29.1
82.5°	107.2	48.6	30.6	28.5	28.0
85°	51.2	40.7	27.5	24.8	22.2
87.5°	16.4	30.1	21.7	19.0	16.9
90°	2.1	21.1	16.9	14.8	13.7
92.5°	2.1	11.6	12.2	12.2	11.6
95°	1.6	2.6	5.8	9.0	8.5
97.5°	1.6	1.1	3.7	6.3	6.3
100°	1.1	0.5	1.6	4.2	4.2
102.5°	1.1	0.5	0.5	2.6	2.6
105°	0.5	0.0	0.5	1.1	1.1
107.5°	0.5	0.5	0.5	1.1	0.5
110°	0.5	0.5	0.5	1.1	0.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.5	0.5	0.5	1.1	0.5
115°	0.5	0.5	0.5	1.1	0.5
117.5°	0.5	0.5	0.5	1.1	0.5
120°	0.5	0.5	0.5	1.1	0.5
122.5°	0.5	0.5	0.5	1.1	0.5
125°	0.5	0.5	0.5	1.1	0.5
127.5°	0.5	0.5	0.5	1.1	0.5
130°	0.5	0.5	1.1	1.1	0.5
132.5°	0.5	0.5	1.1	1.1	0.5
135°	0.5	0.5	1.1	1.1	0.5
137.5°	0.5	0.5	1.1	1.1	1.1
140°	1.1	0.5	1.1	1.1	1.1
142.5°	1.1	1.1	1.1	1.6	1.1
145°	1.1	1.1	1.1	1.6	1.1
147.5°	1.1	1.1	1.6	1.6	1.1
150°	1.1	1.1	1.6	1.6	1.1
152.5°	1.1	1.1	1.6	1.6	1.6
155°	1.1	1.1	1.6	2.1	1.6
157.5°	1.1	1.1	1.6	2.1	1.6
160°	1.1	1.6	2.1	2.1	1.6
162.5°	1.1	1.6	2.1	2.1	2.1
165°	1.1	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)