

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: P895346

Luminaire Tested: 8TMB-SC3-ASMF-UNV-CC93-MID-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895346
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-185-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-SC3-ASMF-UNV-CC93-MID-3500K
Description: Selectable 8FT MICROBAY LINEAR BAY with FROSTED ASYMMETRIC LENS, 90CRI, 3500K CCT, 1 lumen setting
Light Source: -
Ballast/Driver: -

Summary

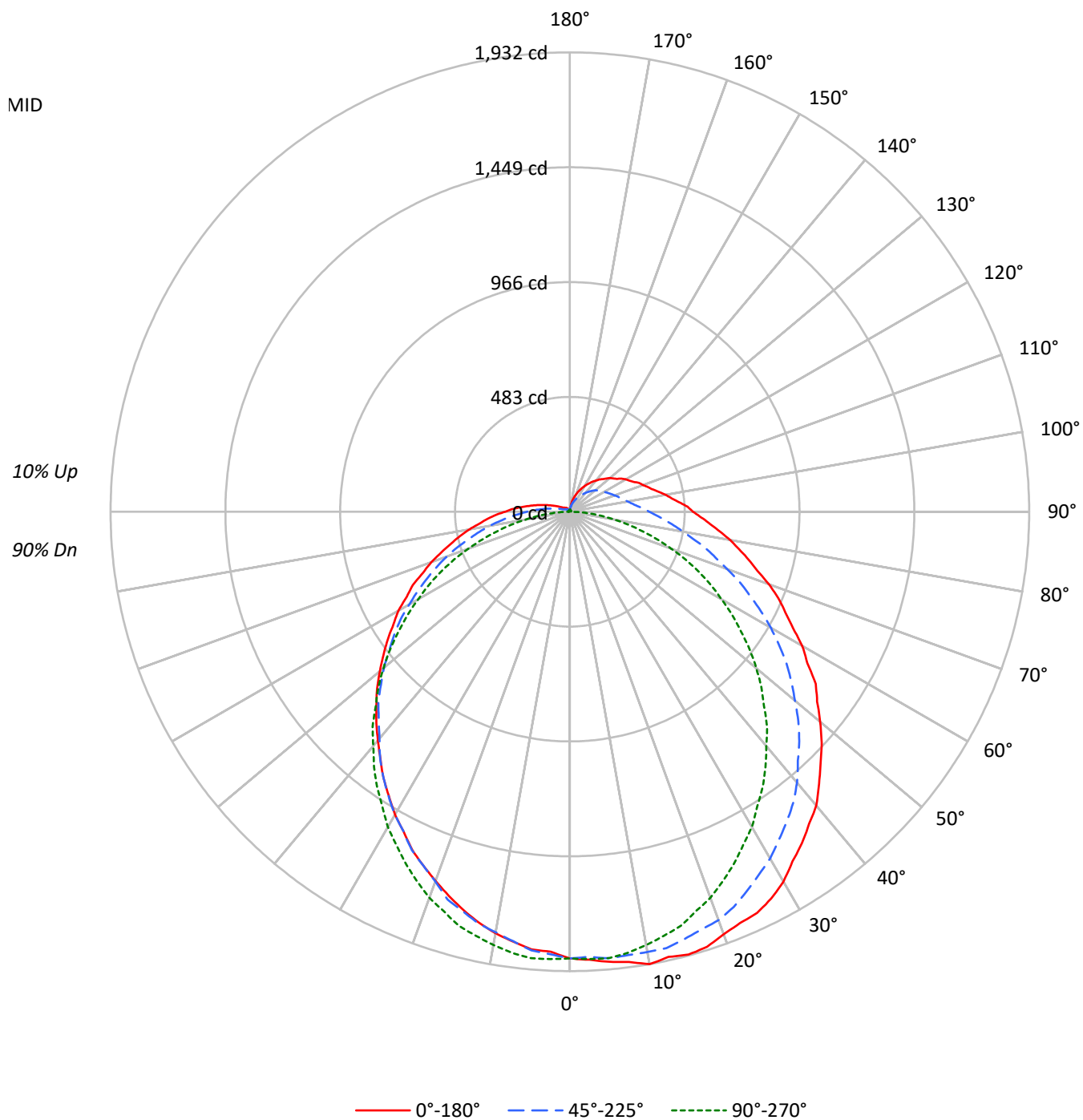
Lumens per Lamp: N/A
Luminaire Lumens: 6458.0 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.21 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 7.98' x H: 0.12')
CIE Type: Direct

Input Watts (W): 66.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.9948
Total Harmonic Distortion (THDi): 5.65231997856897
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			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	90		
1	105	99	95	90	101	96	92	88	90	87	83	85	82	79	79	77	75	72		
2	95	86	79	72	91	83	76	71	78	72	68	73	69	65	69	65	62	59		
3	86	75	66	60	83	73	65	58	68	62	56	64	59	54	60	56	52	49		
4	79	66	57	50	76	64	56	49	61	53	48	57	51	46	54	49	44	42		
5	72	59	50	43	69	57	49	42	54	47	41	51	45	40	48	43	38	36		
6	67	53	44	37	64	52	43	37	49	41	36	46	40	35	44	38	34	31		
7	62	48	39	33	59	47	38	32	44	37	32	42	36	31	40	34	30	28		
8	57	44	35	29	55	43	35	29	41	33	28	39	32	27	37	31	27	25		
9	54	40	32	26	52	39	31	26	37	30	25	36	29	25	34	28	24	22		
10	50	37	29	24	49	36	29	23	34	28	23	33	27	22	31	26	22	20		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	9540	9540	9540	9540	9540
5°	9673	9329	9229	9166	9405
10°	9935	9142	8811	8731	9259
15°	10095	8957	8419	8374	9077
20°	10160	8779	7974	7945	8878
25°	10361	8505	7505	7588	8731
30°	10442	8239	7060	7201	8548
35°	10437	7950	6592	6828	8380
40°	10552	7650	6111	6408	8217
45°	10547	7293	5638	6089	8136
50°	10657	6927	5182	5722	8093
55°	10932	6609	4660	5354	8093
60°	11164	6212	4126	4962	8239
65°	11618	5782	3584	4574	8473
70°	12675	5371	2938	4203	8838
75°	14434	5077	2247	3769	9575
80°	18391	4796	1505	3390	11529
85°	29287	4752	755	2997	17219

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 90°

Luminance: 167765 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.2	2.8
10°-20°	510.8	7.9
20°-30°	770.2	11.9
30°-40°	924.5	14.3
40°-50°	962.6	14.9
50°-60°	892.4	13.8
60°-70°	734.9	11.4
70°-80°	530.1	8.2
80°-90°	336.5	5.2
90°-100°	207.5	3.2
100°-110°	138.3	2.1
110°-120°	98.5	1.5
120°-130°	72.2	1.1
130°-140°	49.6	0.8
140°-150°	30.2	0.5
150°-160°	15.0	0.2
160°-170°	5.5	0.1
170°-180°	0.9	0.0
0°-30°	1459.3	22.6
0°-40°	2383.7	36.9
0°-60°	4238.7	65.6
0°-90°	5840.3	90.4
90°-120°	444.3	6.9
90°-150°	596.4	9.2
90°-180°	618.0	9.6
0°-180°	6458.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1878	1878	1878	1878	1878	
5°	1900	1885	1885	1852	1847	182
15°	1928	1860	1803	1739	1734	544
25°	1862	1761	1633	1571	1569	857
35°	1702	1591	1414	1366	1366	1066
45°	1491	1365	1154	1139	1150	1154
55°	1262	1113	880	902	934	1121
65°	999	836	599	661	729	995
75°	779	591	316	439	516	825
85°	593	402	83	254	348	503
90°	518	334	8	180	271	285
95°	461	283	5	121	209	366
105°	362	222	5	50	110	386
115°	297	183	6	24	53	297
125°	241	153	7	19	30	220
135°	194	122	7	14	22	152
145°	148	86	7	10	16	94
155°	101	57	8	7	10	48
165°	59	33	8	5	6	17
175°	8	14	8	4	1	2
180°	6	6	6	6	6	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1878.4	1878.4	1878.4	1878.4	1878.4	1878.4	1878.4	1878.4	1878.4
2.5°	1885.9	1891.5	1873.7	1884.9	1883.1	1884.9	1862.4	1881.2	1852.1
5°	1900.0	1902.8	1884.9	1891.5	1884.9	1869.0	1852.1	1845.5	1847.4
7.5°	1909.4	1924.4	1880.2	1882.1	1870.8	1853.9	1822.0	1827.6	1823.9
10°	1931.9	1915.0	1880.2	1871.8	1850.2	1832.3	1795.7	1798.5	1800.4
12.5°	1917.8	1914.0	1879.3	1848.3	1826.7	1811.7	1774.1	1764.7	1769.4
15°	1928.1	1912.2	1860.5	1836.1	1803.2	1776.9	1739.4	1732.8	1733.7
17.5°	1918.7	1905.6	1841.7	1807.9	1761.9	1745.9	1710.2	1699.0	1693.3
20°	1890.6	1884.0	1827.6	1769.4	1728.1	1697.1	1653.9	1647.3	1652.0
22.5°	1871.8	1855.8	1799.5	1741.2	1681.1	1653.9	1610.7	1609.8	1610.7
25°	1862.4	1841.7	1761.0	1699.9	1633.2	1608.8	1571.2	1557.2	1569.4
27.5°	1834.2	1815.4	1720.6	1653.9	1579.7	1546.8	1515.8	1513.0	1514.9
30°	1796.6	1760.0	1683.9	1602.2	1530.9	1497.1	1471.7	1452.9	1470.8
32.5°	1743.1	1722.5	1636.0	1546.8	1467.9	1444.5	1419.1	1417.2	1417.2
35°	1701.8	1686.8	1591.0	1498.0	1413.5	1381.5	1366.5	1359.9	1366.5
37.5°	1653.9	1631.4	1543.1	1438.8	1352.4	1325.2	1310.2	1304.5	1309.2
40°	1612.6	1571.2	1486.7	1377.8	1285.7	1261.3	1245.4	1251.0	1255.7
42.5°	1551.5	1528.0	1420.0	1315.8	1228.4	1202.1	1189.0	1193.7	1205.0
45°	1491.4	1469.8	1364.6	1251.0	1154.3	1140.2	1139.2	1136.4	1150.5
47.5°	1436.9	1406.0	1303.6	1187.1	1092.3	1076.3	1078.2	1087.6	1099.8
50°	1374.0	1337.4	1236.0	1118.6	1023.7	1013.4	1020.9	1027.5	1043.4
52.5°	1311.1	1282.0	1174.0	1053.8	954.2	946.7	957.0	978.6	988.0
55°	1262.3	1209.7	1112.9	977.7	880.0	880.9	901.6	913.8	934.5
57.5°	1184.3	1144.9	1043.4	910.1	810.5	817.1	845.3	865.9	879.1
60°	1128.9	1079.1	975.8	837.7	737.3	747.6	779.5	810.5	833.1
62.5°	1057.5	1014.3	905.4	766.4	669.6	684.7	720.4	757.0	772.9
65°	999.3	950.4	835.9	695.0	599.2	617.0	661.2	702.5	728.8
67.5°	949.5	898.8	773.9	629.2	527.8	554.1	605.8	646.2	666.8
70°	890.3	831.2	703.4	556.0	453.6	484.6	550.4	597.3	620.8
72.5°	827.4	779.5	642.4	488.4	385.1	422.6	494.9	543.8	566.3
75°	778.6	725.0	590.7	420.8	315.6	360.6	438.6	494.0	516.5
77.5°	728.8	680.0	532.5	358.8	253.6	304.3	388.8	449.9	473.3
80°	684.7	628.3	483.7	308.1	188.8	248.9	341.9	402.0	429.2
82.5°	635.8	587.0	441.4	254.5	134.3	198.2	295.8	361.6	384.1
85°	592.6	541.9	402.0	212.3	82.6	153.1	253.6	321.2	348.4
87.5°	553.2	510.9	365.3	180.3	41.3	116.5	213.2	281.8	312.7
90°	517.5	469.6	334.3	151.2	7.5	84.5	180.3	247.9	271.4
92.5°	494.9	437.7	309.0	132.4	4.7	60.1	150.3	217.0	244.2
95°	461.1	410.4	282.7	118.3	4.7	40.4	121.2	186.0	209.4
97.5°	432.0	385.1	263.9	109.9	3.8	27.2	99.6	155.9	180.3
100°	409.5	365.3	247.0	102.4	4.7	19.7	78.9	132.4	154.0
102.5°	384.1	343.7	233.9	97.7	4.7	14.1	62.0	111.8	131.5
105°	361.6	325.9	221.6	93.0	4.7	12.2	49.8	92.0	109.9
107.5°	344.7	307.1	211.3	90.2	4.7	12.2	39.4	75.1	90.2
110°	327.8	292.1	201.0	87.3	4.7	11.3	31.0	62.0	75.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	316.5	278.0	191.6	84.5	5.6	11.3	25.4	51.7	62.0
115°	296.8	265.8	183.1	83.6	5.6	10.3	23.5	42.3	52.6
117.5°	282.7	254.5	174.7	80.8	5.6	10.3	22.5	34.7	42.3
120°	272.4	241.4	167.2	78.0	5.6	9.4	20.7	31.0	35.7
122.5°	259.2	229.2	160.6	76.1	5.6	9.4	19.7	29.1	31.9
125°	241.4	217.9	153.1	72.3	6.6	9.4	18.8	27.2	30.1
127.5°	230.1	207.6	147.5	67.6	6.6	8.5	17.8	25.4	28.2
130°	220.7	196.3	140.9	62.9	6.6	8.5	16.9	23.5	26.3
132.5°	206.6	185.0	131.5	59.2	6.6	7.5	15.0	21.6	24.4
135°	193.5	175.6	122.1	55.4	6.6	7.5	14.1	20.7	22.5
137.5°	185.0	166.2	113.6	51.7	6.6	6.6	13.1	18.8	20.7
140°	170.9	155.9	104.2	47.9	6.6	6.6	12.2	17.8	18.8
142.5°	160.6	145.6	95.8	44.1	6.6	6.6	11.3	16.0	17.8
145°	148.4	135.2	86.4	40.4	6.6	5.6	10.3	15.0	16.0
147.5°	137.1	123.0	78.9	37.6	6.6	5.6	9.4	13.1	14.1
150°	125.8	110.8	71.4	34.7	6.6	5.6	8.5	11.3	13.1
152.5°	113.6	95.8	63.9	31.9	6.6	5.6	7.5	10.3	11.3
155°	101.4	83.6	57.3	29.1	7.5	5.6	6.6	8.5	10.3
157.5°	91.1	72.3	50.7	26.3	7.5	4.7	6.6	7.5	8.5
160°	78.9	62.0	45.1	23.5	7.5	4.7	5.6	6.6	7.5
162.5°	69.5	51.7	39.4	21.6	7.5	4.7	5.6	5.6	6.6
165°	59.2	43.2	32.9	19.7	7.5	4.7	4.7	4.7	5.6
167.5°	47.9	33.8	27.2	17.8	7.5	4.7	4.7	3.8	4.7
170°	35.7	25.4	22.5	16.0	7.5	4.7	3.8	2.8	3.8
172.5°	16.0	19.7	17.8	14.1	8.5	4.7	3.8	2.8	1.9
175°	8.5	14.1	14.1	12.2	8.5	4.7	3.8	2.8	0.9
177.5°	6.6	8.5	10.3	10.3	8.5	5.6	3.8	1.9	0.9
180°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6

(END OF REPORT)