

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: P895339

Luminaire Tested: 8TMB-SC3-ASMF-UNV-CC83-MID-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895339
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-CC83-MID-5000K
Description: Selectable 8FT MICROBAY LINEAR BAY with FROSTED ASYMMETRIC LENS, 80CRI, 5000K CCT, 1 lumen setting
Light Source: -
Ballast/Driver: -

Summary

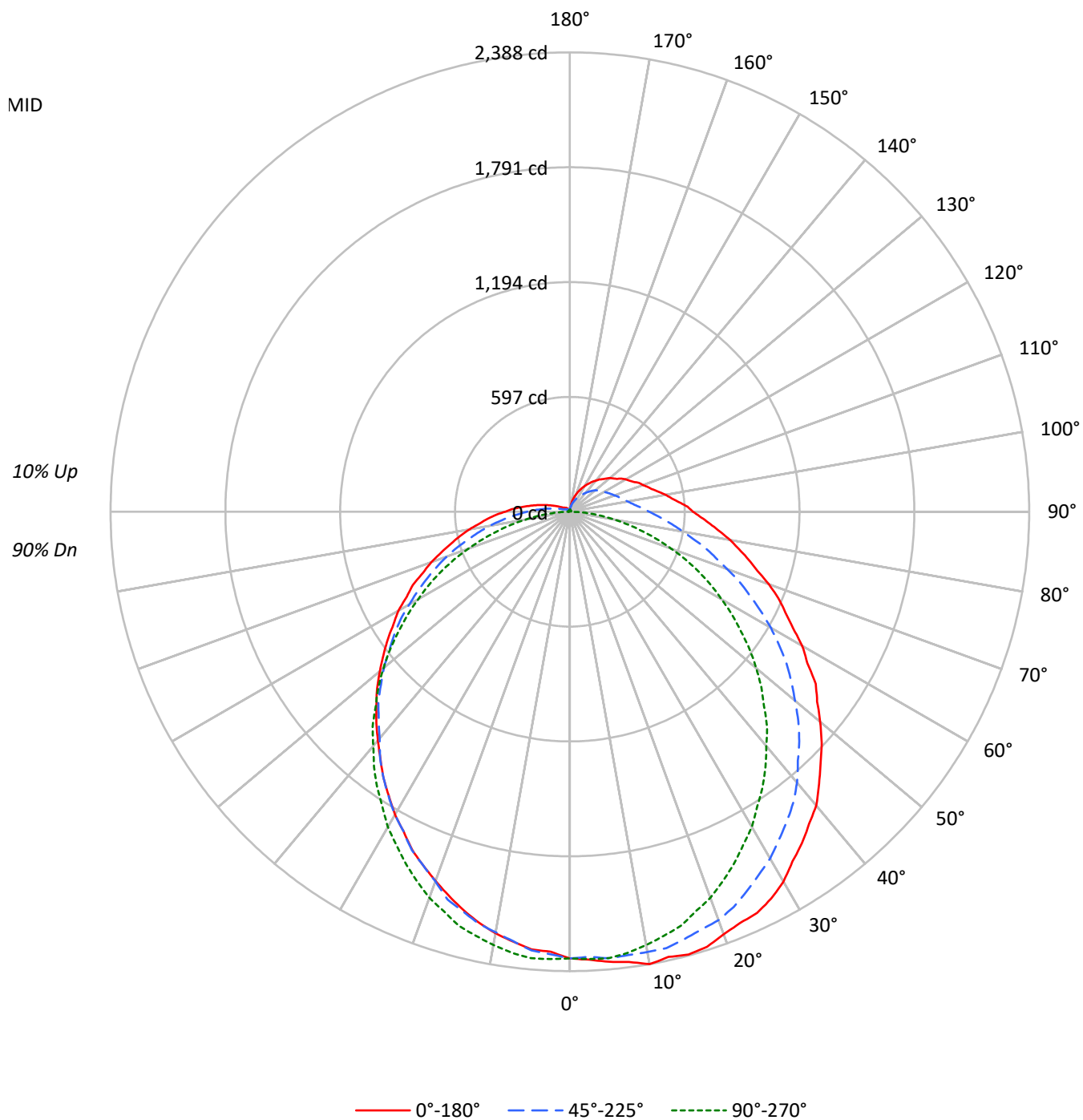
Lumens per Lamp: N/A
Luminaire Lumens: 7982.0 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.21 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 7.98' x H: 0.12')
CIE Type: Direct

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
RW	70	50	30	10	70	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
1	105	99	95	90	101	96	92	88	90	87	83	85	82	79	79	77	75
2	95	86	79	72	91	83	76	71	78	72	68	73	69	65	69	65	62
3	86	75	66	60	83	73	65	58	68	62	56	64	59	54	60	56	52
4	79	66	57	50	76	64	56	49	61	53	48	57	51	46	54	49	44
5	72	59	50	43	69	57	49	42	54	47	41	51	45	40	48	43	38
6	67	53	44	37	64	52	43	37	49	41	36	46	40	35	44	38	34
7	62	48	39	33	59	47	38	32	44	37	32	42	36	31	40	34	30
8	57	44	35	29	55	43	35	29	41	33	28	39	32	27	37	31	27
9	54	40	32	26	52	39	31	26	37	30	25	36	29	25	34	28	24
10	50	37	29	24	49	36	29	23	34	28	23	33	27	22	31	26	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	11791	11791	11791	11791	11791
5°	11955	11530	11407	11329	11625
10°	12280	11299	10890	10792	11444
15°	12478	11071	10407	10350	11220
20°	12557	10851	9856	9819	10973
25°	12806	10511	9277	9379	10791
30°	12906	10184	8725	8900	10565
35°	12899	9826	8147	8440	10358
40°	13042	9455	7553	7920	10156
45°	13036	9015	6968	7526	10056
50°	13172	8561	6405	7072	10003
55°	13512	8169	5760	6618	10003
60°	13798	7678	5099	6134	10182
65°	14360	7146	4430	5653	10473
70°	15666	6639	3631	5194	10924
75°	17840	6276	2777	4659	11835
80°	22729	5927	1860	4189	14250
85°	36202	5872	934	3704	21286

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 90°

Luminance: 207348 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.3	2.8
10°-20°	631.3	7.9
20°-30°	952.0	11.9
30°-40°	1142.6	14.3
40°-50°	1189.8	14.9
50°-60°	1102.9	13.8
60°-70°	908.3	11.4
70°-80°	655.2	8.2
80°-90°	416.0	5.2
90°-100°	256.4	3.2
100°-110°	171.0	2.1
110°-120°	121.7	1.5
120°-130°	89.2	1.1
130°-140°	61.3	0.8
140°-150°	37.3	0.5
150°-160°	18.5	0.2
160°-170°	6.8	0.1
170°-180°	1.1	0.0
0°-30°	1803.6	22.6
0°-40°	2946.3	36.9
0°-60°	5239.0	65.6
0°-90°	7218.5	90.4
90°-120°	549.2	6.9
90°-150°	737.1	9.2
90°-180°	763.0	9.6
0°-180°	7982.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2322	2322	2322	2322	2322	
5°	2348	2330	2330	2289	2283	225
15°	2383	2300	2229	2150	2143	672
25°	2302	2176	2019	1942	1940	1059
35°	2103	1966	1747	1689	1689	1318
45°	1843	1687	1427	1408	1422	1426
55°	1560	1376	1088	1114	1155	1386
65°	1235	1033	741	817	901	1230
75°	962	730	390	542	638	1020
85°	732	497	102	313	431	622
90°	640	413	9	223	336	353
95°	570	349	6	150	259	453
105°	447	274	6	62	136	477
115°	367	226	7	29	65	367
125°	298	189	8	23	37	271
135°	239	151	8	17	28	187
145°	183	107	8	13	20	116
155°	125	71	9	8	13	59
165°	73	41	9	6	7	21
175°	10	17	10	5	1	2
180°	7	7	7	7	7	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2321.6	2321.6	2321.6	2321.6	2321.6	2321.6	2321.6	2321.6	2321.6
2.5°	2330.9	2337.9	2315.8	2329.7	2327.4	2329.7	2301.9	2325.1	2289.1
5°	2348.3	2351.8	2329.7	2337.9	2329.7	2310.0	2289.1	2281.0	2283.3
7.5°	2359.9	2378.5	2323.9	2326.3	2312.3	2291.4	2252.0	2258.9	2254.3
10°	2387.8	2366.9	2323.9	2313.5	2286.8	2264.7	2219.5	2223.0	2225.3
12.5°	2370.4	2365.7	2322.8	2284.5	2257.8	2239.2	2192.8	2181.2	2187.0
15°	2383.1	2363.4	2299.6	2269.4	2228.8	2196.3	2149.8	2141.7	2142.9
17.5°	2371.5	2355.3	2276.4	2234.6	2177.7	2157.9	2113.8	2099.9	2092.9
20°	2336.7	2328.6	2258.9	2187.0	2135.9	2097.6	2044.2	2036.1	2041.9
22.5°	2313.5	2293.8	2224.1	2152.1	2077.9	2044.2	1990.8	1989.6	1990.8
25°	2301.9	2276.4	2176.5	2101.1	2018.7	1988.5	1942.0	1924.6	1939.7
27.5°	2267.1	2243.8	2126.6	2044.2	1952.5	1911.9	1873.6	1870.1	1872.4
30°	2220.6	2175.4	2081.3	1980.3	1892.1	1850.3	1819.0	1795.8	1817.8
32.5°	2154.5	2128.9	2022.1	1911.9	1814.3	1785.3	1754.0	1751.7	1751.7
35°	2103.4	2084.8	1966.4	1851.5	1747.0	1707.6	1689.0	1680.9	1689.0
37.5°	2044.2	2016.3	1907.2	1778.4	1671.6	1637.9	1619.3	1612.4	1618.2
40°	1993.1	1942.0	1837.6	1702.9	1589.2	1559.0	1539.2	1546.2	1552.0
42.5°	1917.7	1888.6	1755.1	1626.3	1518.3	1485.8	1469.6	1475.4	1489.3
45°	1843.4	1816.7	1686.7	1546.2	1426.6	1409.2	1408.1	1404.6	1422.0
47.5°	1776.0	1737.7	1611.2	1467.3	1350.0	1330.3	1332.6	1344.2	1359.3
50°	1698.3	1653.0	1527.6	1382.5	1265.3	1252.5	1261.8	1269.9	1289.7
52.5°	1620.5	1584.5	1451.0	1302.4	1179.4	1170.1	1182.9	1209.6	1221.2
55°	1560.1	1495.1	1375.6	1208.4	1087.7	1088.8	1114.4	1129.5	1155.0
57.5°	1463.8	1415.0	1289.7	1124.8	1001.8	1009.9	1044.7	1070.3	1086.5
60°	1395.3	1333.8	1206.1	1035.4	911.2	924.0	963.5	1001.8	1029.6
62.5°	1307.1	1253.7	1119.0	947.2	827.7	846.2	890.3	935.6	955.3
65°	1235.1	1174.7	1033.1	859.0	740.6	762.7	817.2	868.3	900.8
67.5°	1173.6	1110.9	956.5	777.7	652.4	684.9	748.7	798.6	824.2
70°	1100.4	1027.3	869.4	687.2	560.7	599.0	680.2	738.3	767.3
72.5°	1022.7	963.5	794.0	603.6	475.9	522.4	611.7	672.1	700.0
75°	962.3	896.1	730.2	520.0	390.0	445.8	542.1	610.6	638.4
77.5°	900.8	840.4	658.2	443.4	313.4	376.1	480.6	556.0	585.0
80°	846.2	776.6	597.8	380.7	233.3	307.6	422.5	496.8	530.5
82.5°	785.9	725.5	545.6	314.6	166.0	244.9	365.7	446.9	474.8
85°	732.5	669.8	496.8	262.3	102.2	189.2	313.4	397.0	430.7
87.5°	683.7	631.5	451.6	222.9	51.1	143.9	263.5	348.2	386.6
90°	639.6	580.4	413.2	186.9	9.3	104.5	222.9	306.5	335.5
92.5°	611.7	540.9	381.9	163.7	5.8	74.3	185.7	268.1	301.8
95°	570.0	507.3	349.4	146.3	5.8	49.9	149.7	229.8	258.9
97.5°	534.0	475.9	326.2	135.8	4.6	33.7	123.0	192.7	222.9
100°	506.1	451.6	305.3	126.5	5.8	24.4	97.5	163.7	190.4
102.5°	474.8	424.9	289.0	120.7	5.8	17.4	76.6	138.1	162.5
105°	446.9	402.8	274.0	114.9	5.8	15.1	61.5	113.8	135.8
107.5°	426.0	379.6	261.2	111.4	5.8	15.1	48.8	92.9	111.4
110°	405.1	361.0	248.4	108.0	5.8	13.9	38.3	76.6	92.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	391.2	343.6	236.8	104.5	7.0	13.9	31.3	63.8	76.6
115°	366.8	328.5	226.4	103.3	7.0	12.8	29.0	52.2	65.0
117.5°	349.4	314.6	215.9	99.8	7.0	12.8	27.9	43.0	52.2
120°	336.6	298.3	206.6	96.3	7.0	11.6	25.5	38.3	44.1
122.5°	320.4	283.2	198.5	94.0	7.0	11.6	24.4	36.0	39.5
125°	298.3	269.3	189.2	89.4	8.1	11.6	23.2	33.7	37.1
127.5°	284.4	256.5	182.2	83.6	8.1	10.4	22.1	31.3	34.8
130°	272.8	242.6	174.1	77.8	8.1	10.4	20.9	29.0	32.5
132.5°	255.4	228.7	162.5	73.1	8.1	9.3	18.6	26.7	30.2
135°	239.1	217.1	150.9	68.5	8.1	9.3	17.4	25.5	27.9
137.5°	228.7	205.5	140.5	63.8	8.1	8.1	16.3	23.2	25.5
140°	211.3	192.7	128.9	59.2	8.1	8.1	15.1	22.1	23.2
142.5°	198.5	179.9	118.4	54.6	8.1	8.1	13.9	19.7	22.1
145°	183.4	167.2	106.8	49.9	8.1	7.0	12.8	18.6	19.7
147.5°	169.5	152.1	97.5	46.4	8.1	7.0	11.6	16.3	17.4
150°	155.5	137.0	88.2	43.0	8.1	7.0	10.4	13.9	16.3
152.5°	140.5	118.4	78.9	39.5	8.1	7.0	9.3	12.8	13.9
155°	125.4	103.3	70.8	36.0	9.3	7.0	8.1	10.4	12.8
157.5°	112.6	89.4	62.7	32.5	9.3	5.8	8.1	9.3	10.4
160°	97.5	76.6	55.7	29.0	9.3	5.8	7.0	8.1	9.3
162.5°	85.9	63.8	48.8	26.7	9.3	5.8	7.0	7.0	8.1
165°	73.1	53.4	40.6	24.4	9.3	5.8	5.8	5.8	7.0
167.5°	59.2	41.8	33.7	22.1	9.3	5.8	5.8	4.6	5.8
170°	44.1	31.3	27.9	19.7	9.3	5.8	4.6	3.5	4.6
172.5°	19.7	24.4	22.1	17.4	10.4	5.8	4.6	3.5	2.3
175°	10.4	17.4	17.4	15.1	10.4	5.8	4.6	3.5	1.2
177.5°	8.1	10.4	12.8	12.8	10.4	7.0	4.6	2.3	1.2
180°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0

(END OF REPORT)