

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P892624

Luminaire Tested: 2MB-3SL-ASYMR-UNV-L850

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892624
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2410-248-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-3SL-ASYMR-UNV-L850
Description: 3000 Lumen 2FT MICROBAY LINEAR BAY with ASYMMERIC REFLECTOR, 80CRI, 5000K CCT
Light Source: -
Ballast/Driver: -

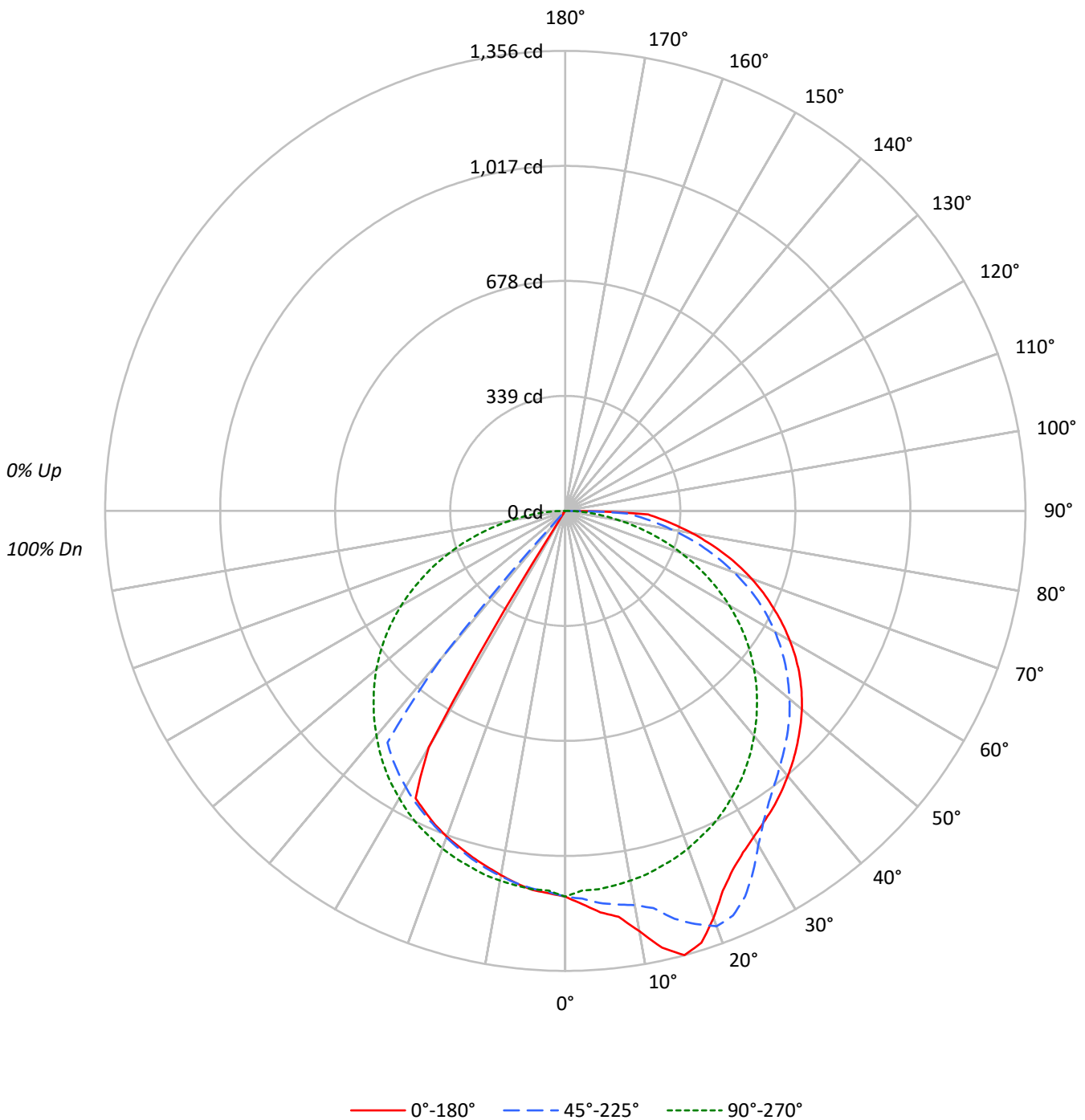
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3076.0 lumens
Efficiency: N/A
Efficacy: 146.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.28 / 1.25
Luminous Opening: Rectangular (W 0.21' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 21
Input Voltage (V):
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 8
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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	85	85	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	71	71	71	69
3	90	79	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	61	61	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	53	53	53	50
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	46	46	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	41	41	41	39
7	66	52	44	37	64	51	43	37	50	42	37	48	42	37	47	41	36	36	36	36	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	33	33	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	30	30	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	32	27	27	27	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	29682	29682	29682	29682	29682
5°	31127	30409	29334	29284	29387
10°	33350	31280	29329	28984	28897
15°	36643	33651	29340	28705	28564
20°	35477	36199	29417	28475	28384
25°	33612	36127	29487	28381	28173
30°	33469	34292	29484	28347	24262
35°	34036	33351	29533	28350	331
40°	34773	33509	29494	19553	222
45°	35726	34186	29501	362	144
50°	36973	35044	29516	264	53
55°	38381	36041	29432	178	32
60°	39914	37266	29173	68	37
65°	41792	38740	28640	80	80
70°	44587	40358	27732	99	99
75°	48803	42952	26540	262	131
80°	57268	48067	24567	391	195
85°	85223	67490	23006	599	389

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 146163 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.9	3.5
10°-20°	325.3	10.6
20°-30°	500.0	16.3
30°-40°	535.9	17.4
40°-50°	486.7	15.8
50°-60°	443.9	14.4
60°-70°	330.2	10.7
70°-80°	232.4	7.6
80°-90°	112.6	3.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	934.2	30.4
0°-40°	1470.1	47.8
0°-60°	2400.7	78.0
0°-90°	3076.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3076.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1137	1137	1137	1137	1137	
5°	1188	1160	1119	1117	1121	115
15°	1356	1245	1086	1062	1057	374
25°	1167	1254	1024	985	978	543
35°	1068	1046	927	890	10	669
45°	968	926	799	10	4	748
55°	843	792	647	4	1	753
65°	676	627	464	1	1	670
75°	484	426	263	3	1	510
85°	284	225	77	2	1	286
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1136.9	1136.9	1136.9	1136.9	1136.9	1136.9	1136.9	1136.9	1136.9
2.5°	1160.3	1147.3	1144.1	1153.2	1120.0	1142.1	1123.9	1127.8	1127.8
5°	1187.7	1169.5	1160.3	1157.7	1119.3	1134.3	1117.4	1117.4	1121.3
7.5°	1206.6	1186.4	1170.1	1163.6	1113.5	1126.5	1106.9	1106.9	1106.9
10°	1258.0	1220.2	1179.9	1168.2	1106.3	1116.1	1093.3	1094.6	1090.0
12.5°	1318.6	1284.7	1198.8	1166.2	1098.5	1103.0	1078.9	1078.3	1073.1
15°	1355.7	1330.3	1245.0	1163.6	1085.5	1089.4	1062.0	1060.1	1056.8
17.5°	1334.8	1330.9	1276.9	1161.6	1073.7	1070.5	1043.1	1041.2	1038.6
20°	1276.9	1286.7	1302.9	1157.7	1058.8	1052.2	1024.9	1023.6	1021.6
22.5°	1212.4	1222.2	1291.2	1164.2	1040.5	1032.7	1005.4	1004.1	1001.5
25°	1166.8	1166.8	1254.1	1179.9	1023.6	1009.3	985.2	983.2	978.0
27.5°	1134.9	1129.1	1198.8	1197.5	1002.1	985.8	963.7	961.7	955.2
30°	1110.2	1100.4	1137.5	1205.9	978.0	960.4	940.3	938.3	804.8
32.5°	1088.1	1077.6	1086.1	1213.1	953.9	933.1	915.5	653.1	28.7
35°	1067.9	1056.2	1046.4	1207.9	926.6	905.7	889.5	18.9	10.4
37.5°	1045.1	1036.0	1013.8	1180.5	897.3	876.4	860.8	10.4	9.1
40°	1020.3	1011.9	983.2	1140.2	865.4	847.8	573.7	9.1	6.5
42.5°	994.9	988.4	954.6	1081.5	833.5	815.9	18.2	7.2	5.2
45°	967.6	961.7	925.9	1010.6	799.0	782.7	9.8	5.2	3.9
47.5°	939.6	931.1	896.0	934.4	763.8	747.5	8.5	3.9	2.6
50°	910.3	901.2	862.8	867.3	726.7	710.4	6.5	2.6	1.3
52.5°	877.7	866.7	827.6	806.8	687.6	672.6	5.2	1.3	0.7
55°	843.2	830.9	791.8	754.0	646.6	629.7	3.9	1.3	0.7
57.5°	804.8	791.1	754.0	703.9	603.0	425.8	2.6	1.3	0.7
60°	764.4	750.8	713.7	657.0	558.7	29.3	1.3	1.3	0.7
62.5°	721.5	707.1	671.3	609.5	511.1	24.1	1.3	1.3	1.3
65°	676.5	659.6	627.1	560.6	463.6	20.2	1.3	1.3	1.3
67.5°	631.6	610.1	579.5	510.5	414.8	16.9	1.3	1.3	1.3
70°	584.1	560.6	528.7	459.7	363.3	13.7	1.3	1.3	1.3
72.5°	535.2	512.5	477.9	408.3	315.2	10.4	1.3	1.3	1.3
75°	483.8	463.0	425.8	356.8	263.1	7.8	2.6	1.3	1.3
77.5°	430.4	414.1	372.5	304.1	212.3	5.2	2.6	1.3	1.3
80°	380.9	362.7	319.7	250.7	163.4	3.9	2.6	2.0	1.3
82.5°	330.1	313.9	270.9	201.9	117.2	3.3	2.6	2.0	1.3
85°	284.5	268.9	225.3	157.6	76.8	2.6	2.0	2.0	1.3
87.5°	244.2	229.9	186.9	115.3	43.6	2.0	2.0	2.0	1.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	26.31	27.93	26.68	28.24	28.55	21.74	23.36	22.11	23.67	23.99
	3H	28.76	30.22	29.13	30.55	30.91	22.39	23.85	22.76	24.18	24.54
	4H	29.88	31.26	30.28	31.61	31.99	22.53	23.91	22.93	24.26	24.64
	6H	30.98	32.26	31.39	32.62	33.01	22.57	23.86	22.98	24.22	24.61
	8H	31.50	32.73	31.93	33.12	33.52	22.56	23.79	22.98	24.18	24.58
	12H	32.07	33.25	32.50	33.63	34.06	22.54	23.72	22.97	24.10	24.53
4H	2H	26.97	28.35	27.37	28.70	29.07	22.87	24.25	23.27	24.60	24.98
	3H	29.66	30.83	30.07	31.22	31.62	24.21	25.38	24.62	25.78	26.18
	4H	30.95	32.02	31.38	32.43	32.86	24.75	25.81	25.18	26.22	26.66
	6H	32.23	33.17	32.69	33.61	34.06	25.02	25.96	25.48	26.40	26.85
	8H	32.86	33.74	33.32	34.18	34.64	25.06	25.94	25.52	26.38	26.85
	12H	33.55	34.34	34.03	34.81	35.28	25.07	25.86	25.55	26.34	26.81
8H	4H	31.32	32.19	31.78	32.64	33.10	25.70	26.57	26.16	27.01	27.48
	6H	32.80	33.54	33.29	34.02	34.50	26.29	27.02	26.78	27.51	27.98
	8H	33.58	34.25	34.09	34.75	35.24	26.46	27.13	26.97	27.63	28.12
	12H	34.47	35.06	34.98	35.55	36.11	26.57	27.16	27.07	27.65	28.21
12H	4H	31.36	32.15	31.84	32.62	33.09	25.91	26.71	26.39	27.18	27.65
	6H	32.89	33.55	33.39	34.06	34.54	26.64	27.30	27.14	27.81	28.29
	8H	33.77	34.36	34.27	34.85	35.41	26.95	27.54	27.45	28.03	28.59