

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: P892623

Luminaire Tested: 2MB-3SL-ASYMR-UNV-L840

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892623
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-L840
Description: 3000 Lumen 2FT MICROBAY LINEAR BAY with ASYMMERIC REFLECTOR, 80CRI, 4000K CCT
Light Source: -
Ballast/Driver: -

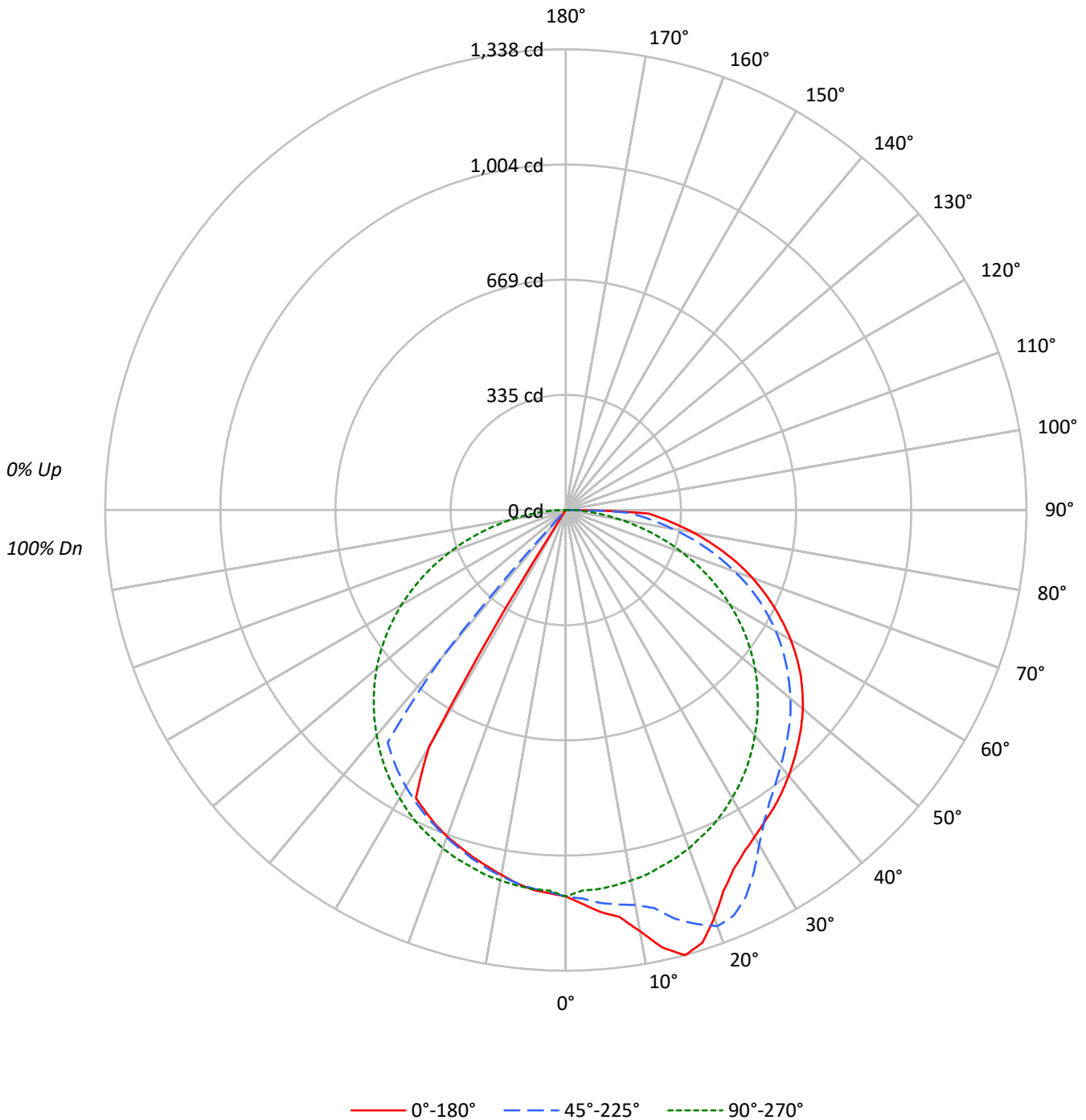
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3037.0 lumens
Efficiency: N/A
Efficacy: 144.6 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 (Ain): 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	100				
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83				
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69				
3	90	79	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59				
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	50				
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44				
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39				
7	66	52	44	37	64	51	43	37	50	42	37	48	42	37	47	41	36	35				
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31				
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28				
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	32	27	26				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	29306	29306	29306	29306	29306
5°	30731	30024	28962	28912	29015
10°	32929	30882	28958	28616	28531
15°	36178	33224	28967	28343	28202
20°	35027	35741	29042	28114	28025
25°	33188	35669	29112	28020	27816
30°	33044	33858	29110	27985	23955
35°	33603	32927	29156	27990	328
40°	34334	33086	29119	19304	218
45°	35272	33754	29124	354	144
50°	36506	34597	29143	260	53
55°	37894	35586	29059	178	27
60°	39413	36791	28802	68	31
65°	41267	38246	28275	80	80
70°	44022	39847	27381	99	99
75°	48187	42407	26197	262	131
80°	56547	47465	24266	391	195
85°	84145	66621	22736	569	389

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 144308 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.6	3.5
10°-20°	321.2	10.6
20°-30°	493.7	16.3
30°-40°	529.1	17.4
40°-50°	480.5	15.8
50°-60°	438.3	14.4
60°-70°	326.1	10.7
70°-80°	229.5	7.6
80°-90°	111.2	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°	922.4	30.4
0°-40°	1451.5	47.8
0°-60°	2370.3	78.0
0°-90°	3037.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3037.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1122	1122	1122	1122	1122	
5°	1173	1146	1105	1103	1107	114
15°	1338	1229	1072	1049	1043	370
25°	1152	1238	1011	973	966	536
35°	1054	1033	915	878	10	660
45°	955	914	789	10	4	738
55°	832	782	638	4	1	744
65°	668	619	458	1	1	661
75°	478	420	260	3	1	504
85°	281	222	76	2	1	282
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°	1122.5	1122.5	1122.5	1122.5	1122.5	1122.5	1122.5	1122.5	1122.5
2.5°	1145.6	1132.8	1129.6	1138.6	1105.8	1127.6	1109.6	1113.5	1113.5
5°	1172.6	1154.6	1145.6	1143.1	1105.1	1119.9	1103.2	1103.2	1107.1
7.5°	1191.3	1171.3	1155.3	1148.8	1099.3	1112.2	1092.9	1092.9	1092.9
10°	1242.1	1204.8	1164.9	1153.3	1092.3	1101.9	1079.4	1080.7	1076.2
12.5°	1301.8	1268.4	1183.6	1151.4	1084.6	1089.1	1065.3	1064.6	1059.5
15°	1338.5	1313.4	1229.2	1148.8	1071.7	1075.6	1048.6	1046.6	1043.4
17.5°	1317.9	1314.1	1260.7	1146.9	1060.1	1056.9	1029.9	1028.0	1025.4
20°	1260.7	1270.3	1286.4	1143.1	1045.3	1038.9	1011.9	1010.6	1008.7
22.5°	1197.1	1206.7	1274.8	1149.5	1027.3	1019.6	992.6	991.3	988.8
25°	1152.1	1152.1	1238.2	1164.9	1010.6	996.5	972.7	970.8	965.6
27.5°	1120.6	1114.8	1183.6	1182.3	989.4	973.3	951.5	949.5	943.1
30°	1096.1	1086.5	1123.1	1190.6	965.6	948.3	928.3	926.4	794.6
32.5°	1074.3	1064.0	1072.3	1197.7	941.8	921.3	903.9	644.8	28.3
35°	1054.3	1042.8	1033.1	1192.6	914.8	894.3	878.2	18.6	10.3
37.5°	1031.8	1022.8	1001.0	1165.6	885.9	865.3	849.9	10.3	9.0
40°	1007.4	999.0	970.8	1125.7	854.4	837.0	566.4	9.0	6.4
42.5°	982.3	975.9	942.5	1067.8	822.9	805.5	18.0	7.1	5.1
45°	955.3	949.5	914.2	997.8	788.8	772.8	9.6	5.1	3.9
47.5°	927.7	919.3	884.6	922.5	754.1	738.0	8.4	3.9	2.6
50°	898.8	889.8	851.8	856.3	717.5	701.4	6.4	2.6	1.3
52.5°	866.6	855.7	817.1	796.5	678.9	664.1	5.1	1.3	0.6
55°	832.5	820.3	781.8	744.5	638.4	621.7	3.9	1.3	0.6
57.5°	794.6	781.1	744.5	695.0	595.3	420.4	2.6	1.3	0.6
60°	754.8	741.2	704.6	648.7	551.6	28.9	1.3	1.3	0.6
62.5°	712.3	698.2	662.8	601.7	504.7	23.8	1.3	1.3	1.3
65°	668.0	651.2	619.1	553.5	457.7	19.9	1.3	1.3	1.3
67.5°	623.6	602.4	572.2	504.0	409.5	16.7	1.3	1.3	1.3
70°	576.7	553.5	522.0	453.9	358.7	13.5	1.3	1.3	1.3
72.5°	528.5	506.0	471.9	403.1	311.2	10.3	1.3	1.3	1.3
75°	477.7	457.1	420.4	352.3	259.7	7.7	2.6	1.3	1.3
77.5°	424.9	408.9	367.7	300.2	209.6	5.1	2.6	1.3	1.3
80°	376.1	358.1	315.7	247.5	161.4	3.9	2.6	1.9	1.3
82.5°	325.9	309.9	267.4	199.3	115.7	3.2	2.6	1.9	1.3
85°	280.9	265.5	222.4	155.6	75.9	2.6	1.9	1.9	1.3
87.5°	241.1	226.9	184.5	113.8	43.1	1.9	1.9	1.9	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	26.27	27.88	26.63	28.20	28.51	21.70	23.31	22.07	23.63	23.94
	3H	28.71	30.18	29.09	30.50	30.86	22.34	23.81	22.72	24.13	24.49
	4H	29.84	31.22	30.24	31.57	31.94	22.49	23.87	22.88	24.22	24.59
	6H	30.93	32.22	31.34	32.58	32.97	22.53	23.81	22.94	24.18	24.57
	8H	31.46	32.69	31.89	33.08	33.48	22.52	23.74	22.94	24.13	24.53
	12H	32.03	33.21	32.46	33.59	34.02	22.50	23.68	22.93	24.06	24.49
4H	2H	26.92	28.31	27.32	28.65	29.03	22.83	24.21	23.23	24.56	24.93
	3H	29.61	30.78	30.02	31.18	31.58	24.17	25.34	24.58	25.73	26.13
	4H	30.91	31.97	31.34	32.38	32.82	24.70	25.77	25.14	26.18	26.62
	6H	32.19	33.12	32.64	33.56	34.02	24.98	25.91	25.43	26.35	26.81
	8H	32.82	33.69	33.28	34.14	34.60	25.02	25.89	25.48	26.34	26.80
	12H	33.50	34.30	33.98	34.77	35.24	25.03	25.82	25.51	26.29	26.76
8H	4H	31.27	32.15	31.73	32.59	33.06	25.65	26.53	26.11	26.97	27.43
	6H	32.75	33.49	33.25	33.98	34.45	26.24	26.98	26.73	27.47	27.94
	8H	33.54	34.20	34.05	34.71	35.19	26.42	27.08	26.93	27.59	28.07
	12H	34.43	35.02	34.93	35.51	36.07	26.52	27.11	27.03	27.60	28.16
12H	4H	31.31	32.10	31.79	32.58	33.05	25.87	26.66	26.35	27.13	27.60
	6H	32.84	33.51	33.35	34.01	34.50	26.59	27.26	27.10	27.76	28.25
	8H	33.72	34.31	34.23	34.80	35.36	26.90	27.50	27.41	27.99	28.54