

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: P892657

Luminaire Tested: 2MB-3SL-LVRA-UNV-L930

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892657
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-26)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-3SL-LVRA-UNV-L930
Description: 3000 Lumen 2FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 90CRI, 3000K CCT
Light Source: -
Ballast/Driver: -

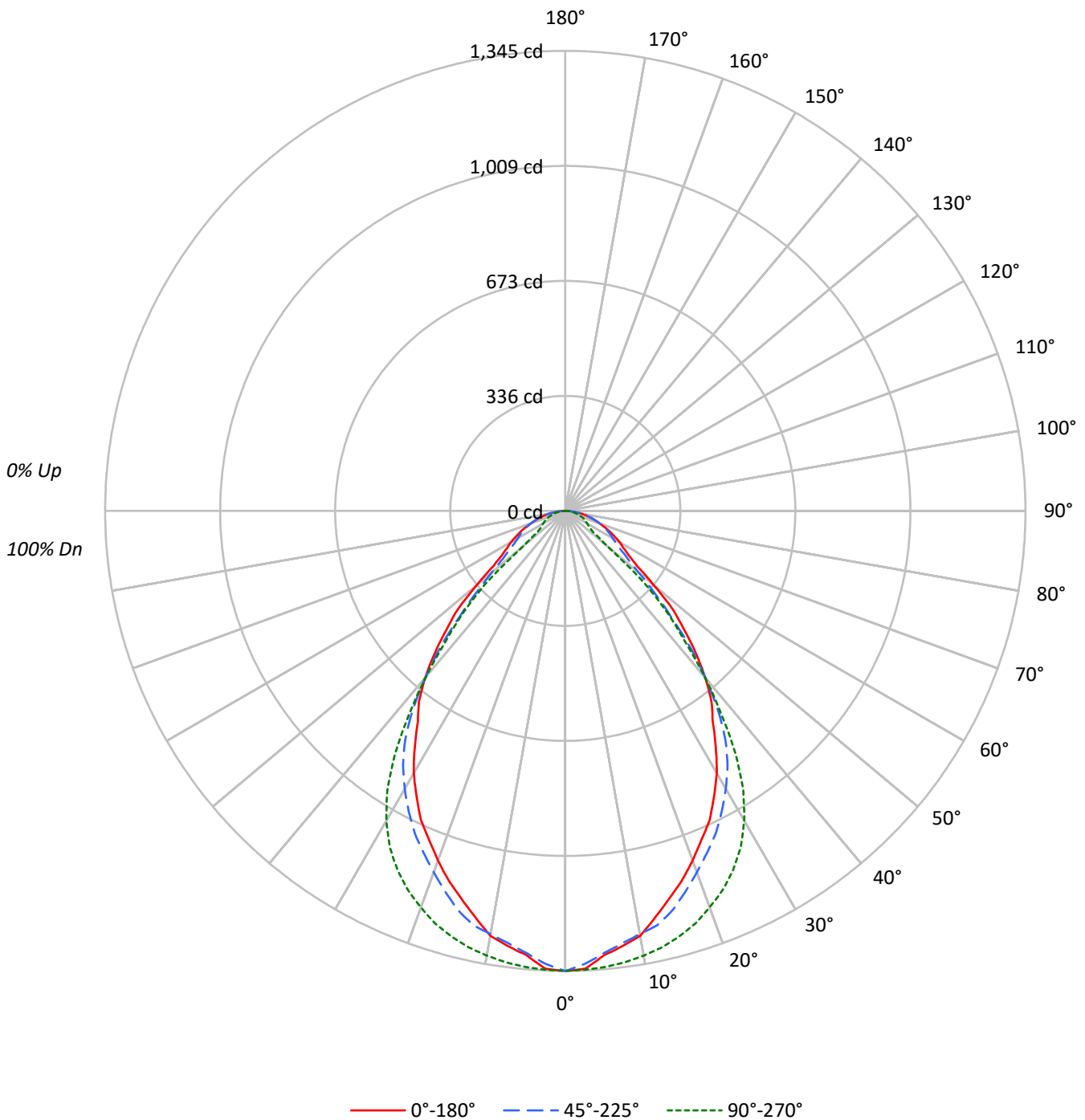
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2183.0 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.16 / 1.12
Luminous Opening: Rectangular (W 0.38' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 21
Input Voltage (V): 120
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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	100	
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	90	88	
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	80	78	
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	71	69	
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	63	62	
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	57	55	
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	52	50	
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	47	45	
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	43	41	
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	40	38	
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	37	35	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19242	19242	19242
5°	18723	18638	19221
10°	18325	18245	19176
15°	17380	17913	19068
20°	16556	17114	18777
25°	15748	16422	18299
30°	14630	15501	17277
35°	13119	14245	15153
40°	11886	11912	11847
45°	9937	8803	8584
50°	7507	6196	3510
55°	5647	4953	2212
60°	5247	4563	2132
65°	4881	4553	2136
70°	4467	4467	2104
75°	4234	4350	2028
80°	3913	4111	2084
85°	3414	3578	2282

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 10170 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.2	5.7
10°-20°	342.4	15.7
20°-30°	485.5	22.2
30°-40°	500.1	22.9
40°-50°	349.3	16.0
50°-60°	167.6	7.7
60°-70°	117.6	5.4
70°-80°	73.5	3.4
80°-90°	22.7	1.0
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°	952.1	43.6
0°-40°	1452.2	66.5
0°-60°	1969.1	90.2
0°-90°	2183.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2183.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1345	1345	1345	1345	1345	
5°	1304	1302	1298	1332	1338	123
15°	1174	1182	1210	1244	1288	330
25°	998	1008	1040	1111	1159	456
35°	751	772	816	833	868	473
45°	491	503	435	413	424	378
55°	226	215	199	127	89	212
65°	144	135	134	102	63	143
75°	77	76	79	68	37	81
85°	21	21	22	22	14	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1345.1	1345.1	1345.1	1345.1	1345.1
2.5°	1339.9	1335.7	1325.7	1344.0	1342.6
5°	1303.8	1302.1	1297.9	1331.9	1338.5
7.5°	1283.4	1279.9	1275.0	1312.5	1330.9
10°	1261.5	1265.7	1256.0	1290.3	1320.1
12.5°	1216.5	1227.6	1240.7	1267.4	1306.9
15°	1173.5	1182.1	1209.5	1244.2	1287.5
17.5°	1133.3	1143.3	1166.9	1218.9	1265.0
20°	1087.5	1101.4	1124.2	1190.8	1233.4
22.5°	1040.4	1053.2	1082.0	1153.4	1200.9
25°	997.7	1007.8	1040.4	1110.7	1159.3
27.5°	941.2	959.9	990.8	1058.7	1109.7
30°	885.7	901.7	938.4	995.6	1045.9
32.5°	818.8	842.1	882.6	926.3	968.2
35°	751.2	771.7	815.7	832.7	867.7
37.5°	702.0	707.5	732.5	730.4	750.2
40°	636.5	647.6	637.9	611.9	634.4
42.5°	565.8	578.9	539.8	509.6	517.6
45°	491.2	502.7	435.1	412.9	424.3
47.5°	426.7	425.7	350.8	335.9	320.0
50°	337.3	348.4	278.4	250.6	157.7
52.5°	263.5	267.6	229.5	160.2	103.7
55°	226.4	215.3	198.6	127.2	88.7
57.5°	201.1	187.2	176.1	118.2	81.1
60°	183.4	167.8	159.5	112.3	74.5
62.5°	163.3	151.1	148.0	107.1	68.6
65°	144.2	134.9	134.5	102.3	63.1
67.5°	125.1	119.9	121.3	96.4	56.9
70°	106.8	105.7	106.8	88.7	50.3
72.5°	91.2	90.1	92.9	79.0	43.0
75°	76.6	75.6	78.7	67.9	36.7
77.5°	61.0	61.7	63.8	56.5	30.9
80°	47.5	47.5	49.9	44.4	25.3
82.5°	34.0	34.3	35.7	32.6	19.8
85°	20.8	20.8	21.8	21.5	13.9
87.5°	6.9	8.0	9.4	10.1	6.9
90°	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	15.92	17.27	16.29	17.59	17.90	12.25	13.61	12.62	13.92	14.23
	3H	17.66	18.87	18.04	19.20	19.56	14.23	15.44	14.61	15.77	16.13
	4H	18.33	19.46	18.73	19.81	20.19	14.93	16.06	15.33	16.41	16.79
	6H	18.84	19.88	19.25	20.24	20.64	15.46	16.49	15.87	16.86	17.26
	8H	19.01	19.99	19.44	20.38	20.79	15.64	16.63	16.07	17.02	17.42
	12H	19.12	20.06	19.55	20.44	20.87	15.78	16.72	16.21	17.11	17.54
4H	2H	16.45	17.58	16.85	17.93	18.31	13.87	15.00	14.28	15.35	15.73
	3H	18.43	19.36	18.84	19.76	20.16	16.05	16.98	16.47	17.39	17.79
	4H	19.23	20.07	19.66	20.48	20.93	16.93	17.77	17.37	18.19	18.63
	6H	19.87	20.60	20.34	21.04	21.51	17.58	18.30	18.04	18.74	19.21
	8H	20.09	20.77	20.56	21.22	21.69	17.78	18.46	18.25	18.91	19.38
	12H	20.25	20.85	20.73	21.33	21.80	17.94	18.54	18.43	19.03	19.50
8H	4H	19.51	20.19	19.98	20.64	21.11	17.58	18.26	18.05	18.70	19.17
	6H	20.30	20.85	20.80	21.35	21.83	18.44	19.00	18.94	19.49	19.97
	8H	20.60	21.10	21.12	21.61	22.10	18.77	19.27	19.29	19.78	20.27
	12H	20.83	21.27	21.35	21.77	22.34	19.04	19.48	19.55	19.97	20.54
12H	4H	19.53	20.13	20.02	20.61	21.09	17.65	18.25	18.14	18.74	19.21
	6H	20.35	20.85	20.87	21.36	21.85	18.58	19.08	19.10	19.59	20.08
	8H	20.71	21.15	21.23	21.65	22.22	18.99	19.43	19.51	19.93	20.50