

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: P892648

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892648
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-3SL-LVR-UNV-L850
Description: 3000 Lumen 2FT MICROBAY LINEAR BAY with LOUVER, 80CRI, 5000K CCT
Light Source: -
Ballast/Driver: -

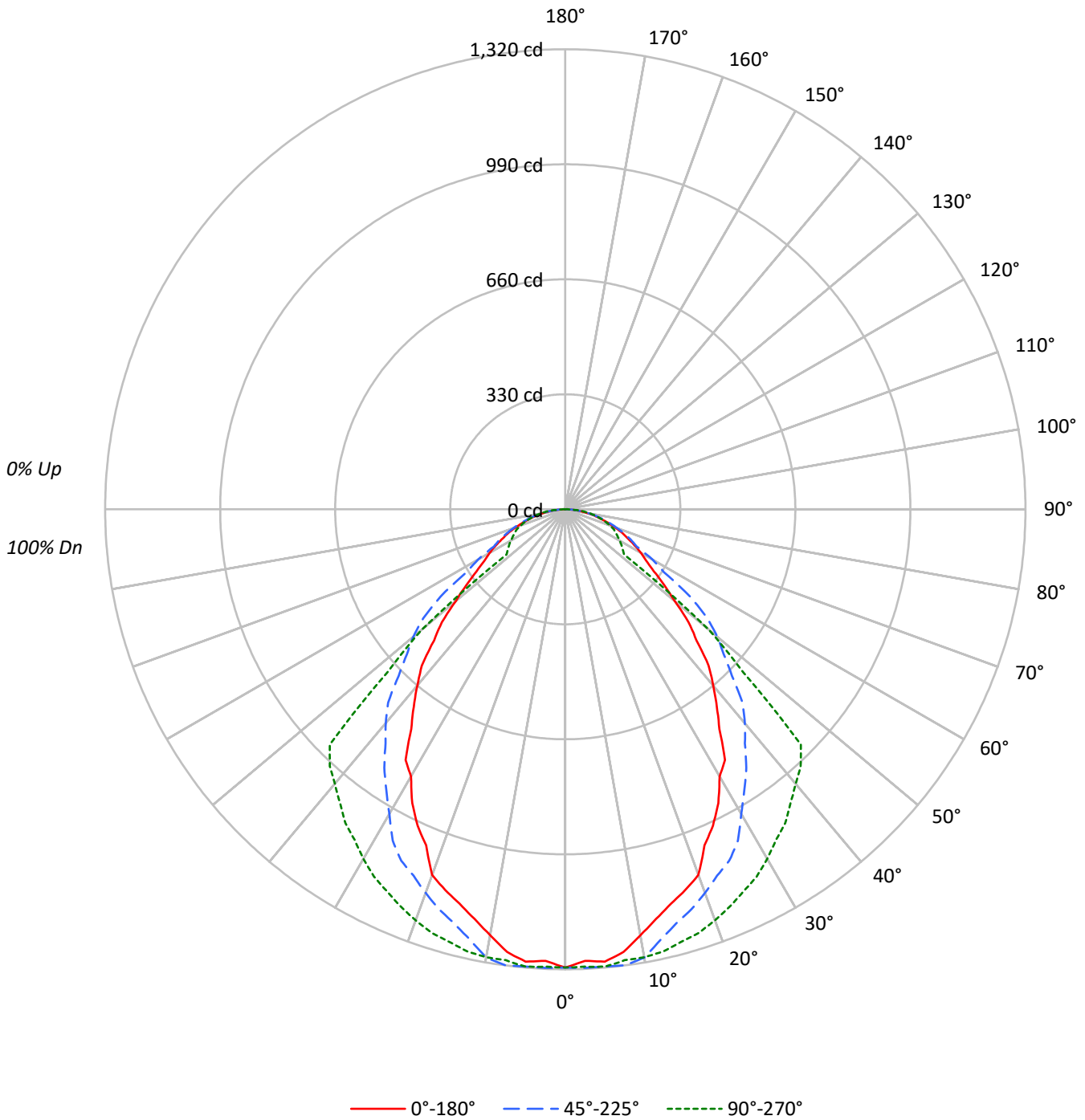
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2743.0 lumens
Efficiency: N/A
Efficacy: 130.6 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.3 / 1.26
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 (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	110	106	102	99	108	104	100	97	100	97	94	96	94	91	92	90	89	89	89	89	87
2	102	94	88	83	99	93	87	82	89	84	80	86	82	79	83	80	77	77	77	77	75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	67	67	67	65
4	87	76	68	62	84	75	67	62	72	66	61	70	64	60	68	63	59	59	59	59	57
5	80	69	60	54	78	68	60	54	66	59	54	64	58	53	62	57	53	53	53	53	51
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	47	47	47	45
7	70	57	49	43	68	56	49	43	55	48	43	53	47	43	52	47	42	42	42	42	40
8	65	52	45	39	64	52	44	39	50	44	39	49	43	39	48	43	38	38	38	38	37
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18809	18809	18809
5°	18708	18914	18914
10°	18023	18977	18960
15°	17350	18216	19030
20°	16997	17834	19106
25°	15814	17566	19094
30°	14617	16669	19133
35°	13451	15808	19207
40°	12333	14964	19201
45°	10775	13674	19327
50°	9116	12677	11960
55°	7744	10902	5003
60°	7176	8269	5159
65°	6668	7034	5416
70°	6295	6642	5693
75°	5809	6268	5875
80°	5314	5808	6195
85°	4711	5285	6664

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 19327 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.6	4.5
10°-20°	349.1	12.7
20°-30°	507.3	18.5
30°-40°	574.4	20.9
40°-50°	536.6	19.6
50°-60°	304.9	11.1
60°-70°	191.6	7.0
70°-80°	117.6	4.3
80°-90°	36.9	1.3
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°	981.0	35.8
0°-40°	1555.5	56.7
0°-60°	2397.0	87.4
0°-90°	2743.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2743.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1315	1315	1315	1315	1315	
5°	1303	1316	1317	1312	1317	122
15°	1172	1192	1230	1297	1285	331
25°	1002	1021	1113	1163	1210	460
35°	770	822	905	1023	1100	485
45°	533	588	676	859	955	415
55°	310	339	437	229	201	284
65°	197	204	208	180	160	198
75°	105	109	113	116	106	112
85°	29	30	32	36	41	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1314.8	1314.8	1314.8	1314.8	1314.8
2.5°	1296.8	1311.2	1317.1	1315.9	1313.6
5°	1302.8	1315.9	1317.1	1312.4	1317.1
7.5°	1281.3	1312.4	1319.5	1307.6	1305.2
10°	1240.7	1258.6	1306.4	1311.2	1305.2
12.5°	1203.7	1225.2	1264.6	1311.2	1299.2
15°	1171.5	1191.8	1230.0	1296.8	1284.9
17.5°	1145.2	1152.3	1203.7	1281.3	1274.2
20°	1116.5	1130.9	1171.5	1243.1	1255.0
22.5°	1043.7	1083.1	1138.0	1209.7	1233.6
25°	1001.9	1021.0	1112.9	1163.1	1209.7
27.5°	950.5	985.2	1072.3	1127.3	1188.2
30°	884.9	924.3	1009.1	1090.3	1158.3
32.5°	852.6	866.9	955.3	1060.4	1124.9
35°	770.2	821.6	905.2	1023.4	1099.8
37.5°	714.1	745.1	846.6	987.6	1061.6
40°	660.4	696.2	801.3	948.2	1028.2
42.5°	609.0	641.3	752.3	908.7	999.5
45°	532.6	587.5	675.9	858.6	955.3
47.5°	480.0	514.7	616.2	797.7	692.6
50°	409.6	451.4	569.6	546.9	537.4
52.5°	358.2	380.9	513.5	462.1	212.6
55°	310.5	339.1	437.1	229.3	200.6
57.5°	274.7	293.8	335.6	212.6	191.1
60°	250.8	255.5	289.0	203.0	180.3
62.5°	224.5	229.3	230.5	192.3	169.6
65°	197.0	204.2	207.8	180.3	160.0
67.5°	176.7	177.9	182.7	167.2	150.5
70°	150.5	152.9	158.8	152.9	136.1
72.5°	127.8	131.4	134.9	136.1	121.8
75°	105.1	108.7	113.4	115.8	106.3
77.5°	86.0	87.2	91.9	97.9	90.8
80°	64.5	68.1	70.5	76.4	75.2
82.5°	46.6	47.8	51.3	56.1	58.5
85°	28.7	29.9	32.2	35.8	40.6
87.5°	11.9	13.1	14.3	16.7	19.1
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	17.91	19.39	18.28	19.71	20.02	15.66	17.14	16.02	17.45	17.77
	3H	19.50	20.82	19.88	21.15	21.51	17.99	19.32	18.37	19.65	20.01
	4H	20.10	21.34	20.50	21.69	22.07	18.94	20.18	19.34	20.53	20.91
	6H	20.56	21.71	20.98	22.08	22.47	19.73	20.87	20.14	21.24	21.63
	8H	20.72	21.80	21.14	22.19	22.60	20.04	21.13	20.46	21.52	21.92
	12H	20.82	21.86	21.25	22.24	22.67	20.28	21.32	20.71	21.71	22.14
4H	2H	18.48	19.72	18.88	20.07	20.45	16.82	18.06	17.22	18.40	18.78
	3H	20.30	21.33	20.72	21.73	22.13	19.25	20.28	19.67	20.68	21.08
	4H	21.04	21.96	21.47	22.38	22.82	20.30	21.23	20.74	21.64	22.08
	6H	21.63	22.43	22.09	22.88	23.34	21.20	22.00	21.66	22.44	22.90
	8H	21.83	22.58	22.29	23.02	23.49	21.54	22.29	22.01	22.74	23.21
	12H	21.97	22.64	22.45	23.12	23.59	21.83	22.50	22.31	22.98	23.45
8H	4H	21.34	22.09	21.81	22.54	23.01	20.70	21.46	21.17	21.90	22.37
	6H	22.07	22.69	22.56	23.18	23.66	21.75	22.37	22.24	22.86	23.34
	8H	22.34	22.90	22.85	23.41	23.90	22.19	22.75	22.70	23.26	23.74
	12H	22.56	23.06	23.07	23.55	24.11	22.57	23.07	23.08	23.56	24.12
12H	4H	21.38	22.05	21.86	22.53	23.00	20.74	21.41	21.23	21.89	22.36
	6H	22.13	22.69	22.65	23.20	23.69	21.82	22.38	22.33	22.89	23.38
	8H	22.46	22.96	22.97	23.45	24.02	22.32	22.82	22.83	23.31	23.88