

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: P892656

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892656
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-L850
Description: 3000 Lumen 2FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 80CRI, 5000K CCT
Light Source: -
Ballast/Driver: -

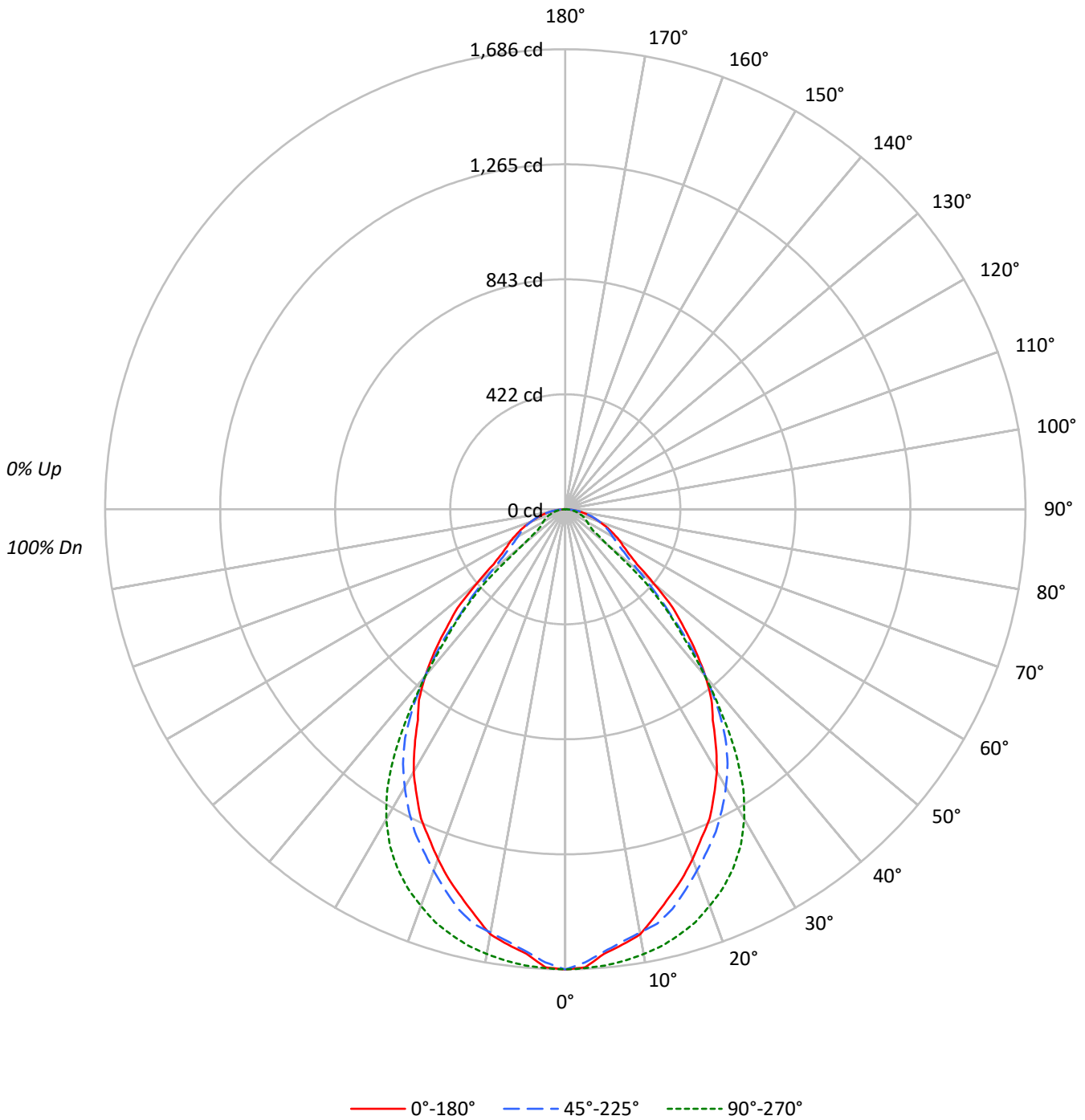
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2737.0 lumens
Efficiency: N/A
Efficacy: 130.3 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 (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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	90	90	90	88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	80	80	80	78
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	71	71	71	69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	63	63	63	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	57	57	57	55
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	52	52	52	50
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	47	47	47	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	43	43	43	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	40	40	40	38
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	37	37	37	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	24125	24125	24125
5°	23475	23368	24099
10°	22976	22874	24042
15°	21790	22460	23908
20°	20757	21459	23543
25°	19745	20589	22943
30°	18344	19436	21661
35°	16449	17860	18999
40°	14902	14934	14854
45°	12460	11036	10763
50°	9412	7767	4402
55°	7078	6213	2776
60°	6578	5719	2672
65°	6120	5707	2678
70°	5601	5601	2635
75°	5312	5455	2548
80°	4902	5157	2612
85°	4284	4497	2856

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 12750 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.8	5.7
10°-20°	429.2	15.7
20°-30°	608.7	22.2
30°-40°	627.1	22.9
40°-50°	438.0	16.0
50°-60°	210.1	7.7
60°-70°	147.4	5.4
70°-80°	92.2	3.4
80°-90°	28.5	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°	1193.7	43.6
0°-40°	1820.7	66.5
0°-60°	2468.8	90.2
0°-90°	2737.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2737.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1686	1686	1686	1686	1686	
5°	1635	1632	1627	1670	1678	155
15°	1471	1482	1516	1560	1614	414
25°	1251	1264	1304	1393	1454	572
35°	942	968	1023	1044	1088	594
45°	616	630	546	518	532	474
55°	284	270	249	160	111	266
65°	181	169	169	128	79	179
75°	96	95	99	85	46	101
85°	26	26	27	27	17	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1686.4	1686.4	1686.4	1686.4	1686.4
2.5°	1679.9	1674.7	1662.1	1685.1	1683.4
5°	1634.7	1632.5	1627.3	1669.9	1678.2
7.5°	1609.1	1604.7	1598.6	1645.6	1668.6
10°	1581.7	1586.9	1574.7	1617.7	1655.1
12.5°	1525.2	1539.1	1555.6	1589.1	1638.6
15°	1471.3	1482.1	1516.5	1559.9	1614.3
17.5°	1420.9	1433.5	1463.0	1528.2	1586.0
20°	1363.5	1380.9	1409.6	1493.0	1546.5
22.5°	1304.4	1320.5	1356.5	1446.1	1505.6
25°	1250.9	1263.5	1304.4	1392.6	1453.5
27.5°	1180.1	1203.5	1242.2	1327.4	1391.3
30°	1110.5	1130.5	1176.6	1248.3	1311.3
32.5°	1026.6	1055.8	1106.6	1161.4	1214.0
35°	941.9	967.5	1022.7	1044.0	1087.9
37.5°	880.2	887.1	918.4	915.8	940.6
40°	798.0	811.9	799.7	767.1	795.4
42.5°	709.3	725.9	676.7	638.9	648.9
45°	615.9	630.2	545.5	517.7	532.0
47.5°	535.0	533.7	439.9	421.2	401.2
50°	422.9	436.8	349.0	314.2	197.8
52.5°	330.3	335.5	287.7	200.8	130.0
55°	283.8	269.9	249.1	159.5	111.3
57.5°	252.1	234.7	220.8	148.2	101.7
60°	229.9	210.4	199.9	140.8	93.4
62.5°	204.7	189.5	185.6	134.3	86.1
65°	180.8	169.1	168.6	128.2	79.1
67.5°	156.9	150.4	152.1	120.8	71.3
70°	133.9	132.6	133.9	111.3	63.0
72.5°	114.3	113.0	116.5	99.1	53.9
75°	96.1	94.8	98.7	85.2	46.1
77.5°	76.5	77.4	80.0	70.8	38.7
80°	59.5	59.5	62.6	55.6	31.7
82.5°	42.6	43.0	44.8	40.9	24.8
85°	26.1	26.1	27.4	26.9	17.4
87.5°	8.7	10.0	11.7	12.6	8.7
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	16.71	18.06	17.07	18.37	18.69	13.04	14.39	13.40	14.70	15.02
	3H	18.45	19.65	18.82	19.98	20.35	15.01	16.22	15.39	16.55	16.91
	4H	19.12	20.24	19.52	20.59	20.98	15.72	16.85	16.12	17.20	17.58
	6H	19.62	20.66	20.04	21.03	21.43	16.24	17.28	16.66	17.65	18.04
	8H	19.79	20.78	20.22	21.17	21.57	16.43	17.41	16.86	17.80	18.21
	12H	19.90	20.85	20.34	21.23	21.66	16.57	17.51	17.00	17.89	18.32
4H	2H	17.24	18.36	17.64	18.71	19.10	14.66	15.79	15.06	16.14	16.52
	3H	19.21	20.14	19.63	20.55	20.95	16.84	17.77	17.25	18.17	18.57
	4H	20.02	20.85	20.45	21.27	21.71	17.72	18.55	18.15	18.97	19.41
	6H	20.66	21.38	21.12	21.83	22.29	18.36	19.09	18.82	19.53	20.00
	8H	20.88	21.56	21.35	22.00	22.47	18.57	19.25	19.04	19.69	20.16
	12H	21.03	21.63	21.52	22.12	22.59	18.73	19.33	19.21	19.81	20.28
8H	4H	20.30	20.98	20.77	21.42	21.89	18.37	19.04	18.84	19.49	19.96
	6H	21.08	21.64	21.58	22.13	22.61	19.23	19.78	19.73	20.28	20.76
	8H	21.39	21.88	21.91	22.40	22.89	19.56	20.06	20.08	20.57	21.06
	12H	21.62	22.06	22.13	22.56	23.12	19.82	20.26	20.33	20.75	21.32
12H	4H	20.32	20.92	20.80	21.40	21.87	18.44	19.04	18.93	19.52	20.00
	6H	21.14	21.64	21.66	22.15	22.64	19.37	19.87	19.89	20.38	20.87
	8H	21.50	21.94	22.01	22.44	23.00	19.78	20.22	20.29	20.71	21.28