

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: P892655

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892655
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-L840
Description: 3000 Lumen 2FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 80CRI, 4000K CCT
Light Source: -
Ballast/Driver: -

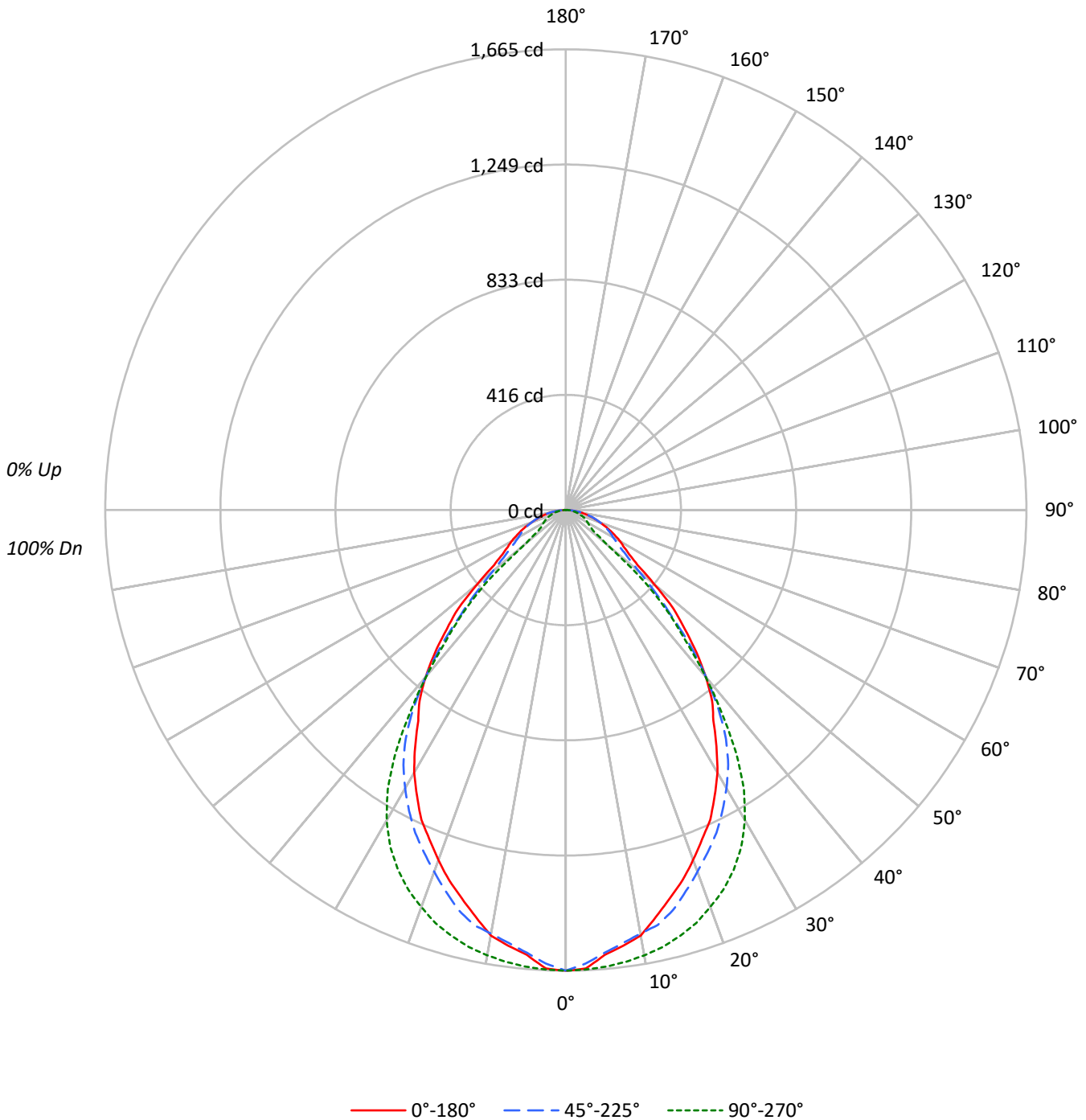
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2702.0 lumens
Efficiency: N/A
Efficacy: 128.7 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	93	92	90	88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	85	82	80	78
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	78	74	71	69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	71	67	63	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	66	61	57	55
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	61	56	52	50
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	52	47	43	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	49	44	40	38
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	46	40	37	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23817	23817	23817
5°	23174	23070	23790
10°	22681	22582	23736
15°	21512	22172	23601
20°	20491	21184	23242
25°	19492	20326	22649
30°	18109	19186	21385
35°	16238	17631	18756
40°	14712	14744	14663
45°	12300	10894	10625
50°	9292	7669	4344
55°	6988	6133	2739
60°	6495	5648	2641
65°	6042	5636	2644
70°	5529	5529	2602
75°	5240	5384	2515
80°	4844	5091	2579
85°	4218	4432	2823

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 12588 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.8	5.7
10°-20°	423.7	15.7
20°-30°	600.9	22.2
30°-40°	619.0	22.9
40°-50°	432.4	16.0
50°-60°	207.5	7.7
60°-70°	145.6	5.4
70°-80°	91.0	3.4
80°-90°	28.1	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°	1178.4	43.6
0°-40°	1797.4	66.5
0°-60°	2437.3	90.2
0°-90°	2702.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2702.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1665	1665	1665	1665	1665	
5°	1614	1612	1606	1649	1657	153
15°	1452	1463	1497	1540	1594	409
25°	1235	1247	1288	1375	1435	565
35°	930	955	1010	1031	1074	586
45°	608	622	538	511	525	468
55°	280	266	246	158	110	263
65°	178	167	166	127	78	177
75°	95	94	97	84	46	100
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°	1664.9	1664.9	1664.9	1664.9	1664.9
2.5°	1658.4	1653.3	1640.8	1663.6	1661.9
5°	1613.8	1611.7	1606.5	1648.6	1656.7
7.5°	1588.5	1584.2	1578.2	1624.5	1647.3
10°	1561.4	1566.6	1554.6	1597.1	1634.0
12.5°	1505.7	1519.4	1535.7	1568.7	1617.7
15°	1452.5	1463.2	1497.1	1540.0	1593.6
17.5°	1402.7	1415.1	1444.3	1508.7	1565.7
20°	1346.0	1363.2	1391.5	1473.9	1526.7
22.5°	1287.7	1303.6	1339.2	1427.6	1486.4
25°	1234.9	1247.4	1287.7	1374.8	1434.9
27.5°	1165.0	1188.1	1226.3	1310.4	1373.5
30°	1096.3	1116.1	1161.5	1232.3	1294.6
32.5°	1013.5	1042.3	1092.5	1146.5	1198.4
35°	929.8	955.1	1009.6	1030.7	1074.0
37.5°	868.9	875.8	906.7	904.1	928.5
40°	787.8	801.5	789.5	757.3	785.2
42.5°	700.3	716.6	668.1	630.8	640.6
45°	608.0	622.2	538.5	511.0	525.2
47.5°	528.2	526.9	434.2	415.8	396.0
50°	417.5	431.2	344.6	310.2	195.2
52.5°	326.1	331.3	284.1	198.2	128.3
55°	280.2	266.5	245.9	157.5	109.8
57.5°	248.9	231.7	218.0	146.3	100.4
60°	227.0	207.7	197.4	139.0	92.3
62.5°	202.1	187.1	183.2	132.6	85.0
65°	178.5	166.9	166.5	126.6	78.1
67.5°	154.9	148.5	150.2	119.3	70.4
70°	132.2	130.9	132.2	109.8	62.2
72.5°	112.8	111.6	115.0	97.8	53.2
75°	94.8	93.5	97.4	84.1	45.5
77.5°	75.5	76.4	79.0	69.9	38.2
80°	58.8	58.8	61.8	54.9	31.3
82.5°	42.1	42.5	44.2	40.3	24.5
85°	25.7	25.7	27.0	26.6	17.2
87.5°	8.6	9.9	11.6	12.4	8.6
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	16.66	18.02	17.03	18.33	18.64	12.99	14.35	13.36	14.66	14.97
	3H	18.40	19.61	18.78	19.94	20.30	14.97	16.18	15.35	16.51	16.87
	4H	19.07	20.20	19.47	20.55	20.93	15.67	16.80	16.08	17.15	17.53
	6H	19.58	20.62	19.99	20.99	21.38	16.20	17.24	16.61	17.60	18.00
	8H	19.75	20.74	20.18	21.13	21.53	16.38	17.37	16.81	17.76	18.16
	12H	19.86	20.80	20.29	21.18	21.61	16.52	17.46	16.95	17.85	18.28
4H	2H	17.19	18.32	17.59	18.67	19.05	14.62	15.74	15.02	16.09	16.48
	3H	19.17	20.10	19.58	20.50	20.91	16.79	17.72	17.21	18.13	18.53
	4H	19.97	20.81	20.41	21.23	21.67	17.67	18.51	18.11	18.93	19.37
	6H	20.62	21.34	21.08	21.78	22.25	18.32	19.04	18.78	19.49	19.95
	8H	20.84	21.51	21.30	21.96	22.43	18.53	19.20	18.99	19.65	20.12
	12H	20.99	21.59	21.47	22.07	22.54	18.68	19.28	19.17	19.77	20.24
8H	4H	20.26	20.93	20.72	21.38	21.85	18.32	19.00	18.79	19.45	19.92
	6H	21.04	21.59	21.54	22.09	22.57	19.18	19.74	19.68	20.23	20.71
	8H	21.34	21.84	21.86	22.35	22.85	19.51	20.01	20.03	20.52	21.02
	12H	21.58	22.02	22.09	22.51	23.08	19.78	20.22	20.29	20.71	21.28
12H	4H	20.27	20.87	20.76	21.35	21.83	18.40	19.00	18.88	19.48	19.95
	6H	21.09	21.59	21.61	22.10	22.60	19.32	19.82	19.84	20.33	20.83
	8H	21.46	21.90	21.97	22.39	22.96	19.73	20.17	20.25	20.67	21.24