

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: P893528

Luminaire Tested: 4MB-4SL-LVR-UNV-L950

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893528
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-8)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4MB-4SL-LVR-UNV-L950
Description: 4000 Lumen 4FT MICROBAY LINEAR BAY with LOUVER, 90CRI, 5000K CCT
Light Source: -
Ballast/Driver: -

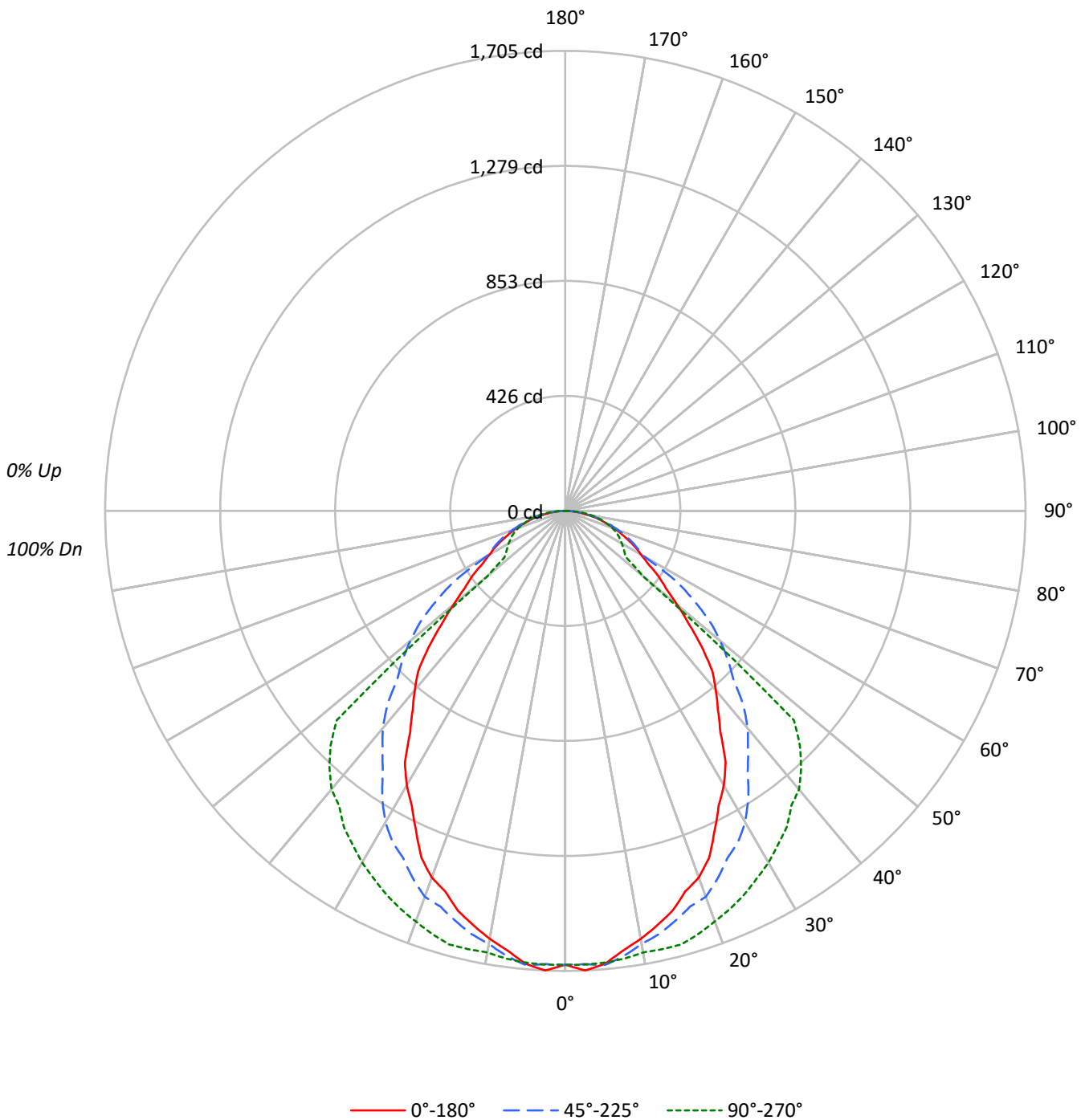
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3590.0 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.32 / 1.27
Luminous Opening: Rectangular (W 0.38' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 29.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 5.5
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	102	100
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	89	89	87
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	77	77	75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	67	67	65
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	59	59	57
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	57	52	52	52	50
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	47	47	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	42	42	40
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	38	38	36
9	61	48	40	35	59	48	40	35	47	40	35	45	39	35	44	39	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11970	11970	11970
5°	12034	12065	12003
10°	11639	11776	12005
15°	11303	11588	12253
20°	10949	11521	12263
25°	10272	11149	12317
30°	9649	10948	12367
35°	8701	10239	12425
40°	8060	9767	12513
45°	7211	8853	12371
50°	5982	8293	4156
55°	5211	7279	3326
60°	4609	4744	3448
65°	4382	4615	3660
70°	4111	4360	3861
75°	3827	4110	3967
80°	3487	3872	4155
85°	3086	3298	4490

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 12371 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.6	4.4
10°-20°	448.9	12.5
20°-30°	660.3	18.4
30°-40°	755.1	21.0
40°-50°	715.0	19.9
50°-60°	394.0	11.0
60°-70°	252.9	7.0
70°-80°	156.1	4.3
80°-90°	48.1	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°	1268.8	35.3
0°-40°	2023.9	56.4
0°-60°	3132.9	87.3
0°-90°	3590.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3590.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1682	1682	1682	1682	1682	
5°	1685	1699	1689	1689	1681	158
15°	1534	1553	1573	1656	1663	431
25°	1308	1367	1420	1513	1569	603
35°	1002	1088	1179	1350	1430	633
45°	717	784	880	1129	1230	548
55°	420	441	587	302	268	376
65°	260	269	274	244	217	258
75°	139	142	150	157	144	148
85°	38	38	40	46	55	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1682.3	1682.3	1682.3	1682.3	1682.3
2.5°	1704.6	1708.9	1681.4	1680.6	1683.1
5°	1684.9	1698.6	1689.2	1689.2	1680.6
7.5°	1642.8	1666.0	1663.4	1683.1	1673.7
10°	1611.0	1629.9	1629.9	1681.4	1661.7
12.5°	1573.2	1594.6	1606.7	1660.8	1663.4
15°	1534.5	1553.4	1573.2	1655.6	1663.4
17.5°	1478.7	1513.0	1537.9	1618.7	1643.6
20°	1446.0	1466.6	1521.6	1586.9	1619.6
22.5°	1391.9	1421.9	1475.2	1548.2	1596.4
25°	1308.5	1367.0	1420.2	1513.0	1568.9
27.5°	1231.2	1275.0	1385.0	1482.9	1536.2
30°	1174.5	1208.9	1332.6	1439.1	1505.3
32.5°	1105.8	1161.6	1262.1	1396.2	1466.6
35°	1001.8	1087.7	1178.8	1349.8	1430.5
37.5°	928.8	988.1	1111.8	1301.7	1376.4
40°	867.8	921.9	1051.6	1241.5	1347.2
42.5°	806.8	850.6	976.0	1196.8	1293.1
45°	716.6	784.4	879.8	1129.0	1229.5
47.5°	622.0	694.2	817.1	1071.4	1148.7
50°	540.4	598.0	749.2	957.1	375.5
52.5°	469.1	522.4	677.0	346.3	283.5
55°	420.1	440.8	586.8	302.4	268.1
57.5°	361.7	395.2	492.3	287.8	254.3
60°	323.9	338.5	333.4	273.2	242.3
62.5°	293.8	304.2	302.4	258.6	228.5
65°	260.3	268.9	274.1	244.0	217.4
67.5°	226.8	234.6	242.3	226.0	201.9
70°	197.6	202.8	209.6	204.5	185.6
72.5°	167.5	173.6	177.9	182.1	164.1
75°	139.2	141.8	149.5	157.2	144.3
77.5°	113.4	116.0	121.1	129.7	122.9
80°	85.1	87.6	94.5	101.4	101.4
82.5°	60.1	61.9	66.2	75.6	79.9
85°	37.8	37.8	40.4	46.4	55.0
87.5°	14.6	14.6	17.2	20.6	27.5
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	16.57	18.06	16.94	18.37	18.68	14.38	15.86	14.74	16.17	16.49
	3H	18.10	19.43	18.48	19.76	20.12	16.71	18.03	17.09	18.36	18.72
	4H	18.69	19.94	19.09	20.29	20.66	17.66	18.90	18.06	19.25	19.63
	6H	19.15	20.30	19.56	20.66	21.06	18.44	19.59	18.85	19.96	20.35
	8H	19.29	20.39	19.72	20.78	21.18	18.75	19.85	19.18	20.24	20.64
	12H	19.39	20.44	19.82	20.82	21.25	19.00	20.05	19.43	20.43	20.86
4H	2H	17.13	18.37	17.53	18.72	19.10	15.48	16.72	15.88	17.07	17.45
	3H	18.90	19.93	19.31	20.33	20.73	17.93	18.96	18.34	19.36	19.76
	4H	19.62	20.54	20.05	20.96	21.40	18.99	19.92	19.43	20.33	20.77
	6H	20.20	21.01	20.66	21.45	21.91	19.88	20.69	20.34	21.13	21.59
	8H	20.39	21.14	20.86	21.59	22.06	20.23	20.99	20.70	21.43	21.90
	12H	20.53	21.20	21.01	21.68	22.15	20.52	21.19	21.00	21.67	22.14
8H	4H	19.92	20.68	20.39	21.12	21.59	19.38	20.13	19.84	20.58	21.04
	6H	20.64	21.26	21.13	21.75	22.23	20.42	21.04	20.91	21.53	22.01
	8H	20.90	21.46	21.41	21.97	22.46	20.86	21.42	21.37	21.93	22.42
	12H	21.11	21.61	21.62	22.10	22.66	21.24	21.74	21.75	22.24	22.80
12H	4H	19.96	20.63	20.44	21.11	21.58	19.41	20.09	19.90	20.57	21.04
	6H	20.70	21.26	21.22	21.77	22.26	20.48	21.04	20.99	21.55	22.04
	8H	21.02	21.52	21.53	22.01	22.58	20.99	21.49	21.50	21.98	22.54