

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: P892841

Luminaire Tested: 2MB-5HL-LVR-UNV-L930

Issue Date: 11/11/2024

**Test Information**

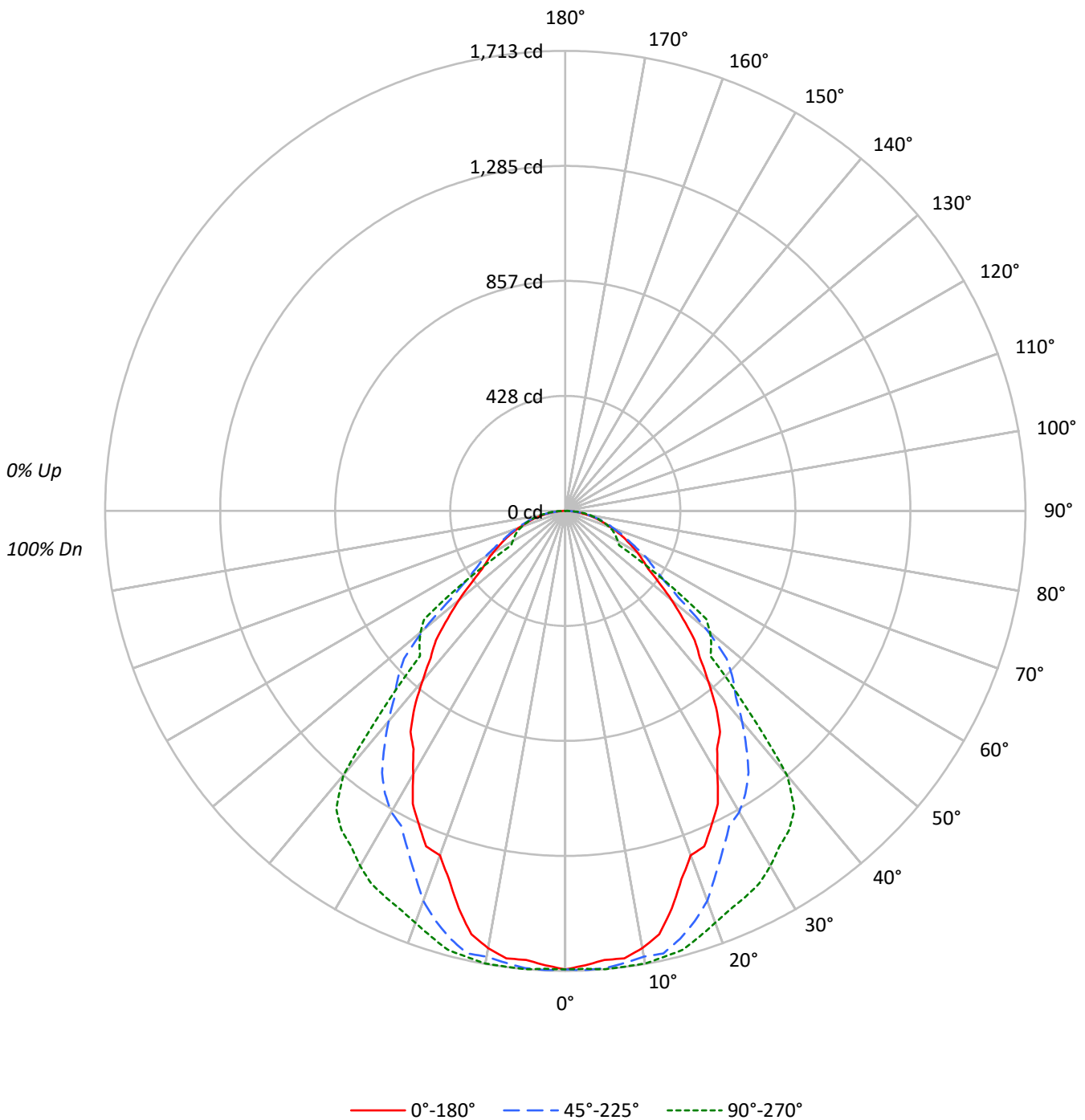
Test Method: LM-79-2019  
Report Number: P892841  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-5HL-LVR-UNV-L930  
Description: 5000 Lumen 2FT MICROBAY LINEAR BAY with LOUVER, 90CRI, 3000K CCT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3479.0 lumens  
Efficiency: N/A  
Efficacy: 103.2 lumens/watt  
Spacing Criteria (0/90/45): 1.05 / 1.32 / 1.24  
Luminous Opening: Rectangular (W 0.38' x L: 1.98' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 33.7  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: 0.99  
Total Harmonic Distortion (THDi): 4.5  
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	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	101	98	100	97	94	96	94	92	92	91	89	89	89	89	87
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	77	77	77	75
3	94	85	77	72	92	83	76	71	80	75	70	78	73	69	75	71	68	68	68	68	66
4	87	76	68	62	85	75	68	62	72	66	61	70	65	60	68	63	60	60	60	60	58
5	81	69	61	55	79	68	60	55	66	59	54	64	58	53	62	57	53	53	53	53	51
6	75	63	55	49	73	62	54	49	60	53	48	59	52	48	57	52	47	47	47	47	46
7	70	57	49	44	68	57	49	44	55	48	43	54	48	43	53	47	43	43	43	43	41
8	65	53	45	40	64	52	45	39	51	44	39	50	44	39	49	43	39	39	39	39	37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	36	45	40	35	35	35	35	34
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	37	32	32	32	32	31

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	24422	24422	24422
5°	24098	24539	24597
10°	24013	24482	24857
15°	22688	24434	25056
20°	20774	23517	24846
25°	20341	21936	25034
30°	18697	21393	25224
35°	17539	20770	25356
40°	15434	19117	23989
45°	13779	17834	15463
50°	11490	15285	15661
55°	9410	11084	11021
60°	8901	9962	6472
65°	8259	8669	6892
70°	7638	8110	7232
75°	7147	7727	7456
80°	6525	7192	7785
85°	5827	6237	8617

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 17834 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	162.3	4.7
10°-20°	456.8	13.1
20°-30°	658.8	18.9
30°-40°	747.3	21.5
40°-50°	622.3	17.9
50°-60°	402.3	11.6
60°-70°	238.5	6.9
70°-80°	145.4	4.2
80°-90°	45.4	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°	1277.9	36.7
0°-40°	2025.2	58.2
0°-60°	3049.8	87.7
0°-90°	3479.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3479.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1707	1707	1707	1707	1707	
5°	1678	1698	1709	1718	1713	160
15°	1532	1582	1650	1676	1692	427
25°	1289	1334	1390	1576	1586	589
35°	1004	1039	1189	1349	1452	618
45°	681	729	882	810	764	517
55°	377	414	444	534	442	351
65°	244	250	256	228	204	242
75°	129	132	140	147	135	137
85°	36	36	38	44	52	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1707.2	1707.2	1707.2	1707.2	1707.2
2.5°	1693.5	1708.8	1711.2	1725.0	1706.4
5°	1678.1	1698.3	1708.8	1718.5	1712.9
7.5°	1680.5	1691.8	1697.5	1714.5	1711.2
10°	1653.1	1675.7	1685.4	1705.6	1711.2
12.5°	1615.1	1644.2	1687.8	1683.8	1700.7
15°	1531.9	1582.0	1649.8	1676.5	1691.8
17.5°	1438.1	1493.9	1602.2	1665.2	1662.0
20°	1364.6	1406.6	1544.8	1633.7	1632.1
22.5°	1352.5	1362.2	1463.2	1611.9	1605.4
25°	1288.7	1333.9	1389.7	1575.5	1586.0
27.5°	1229.7	1270.1	1321.8	1529.4	1564.2
30°	1131.9	1201.4	1295.1	1480.2	1527.0
32.5°	1051.1	1118.2	1248.3	1419.6	1482.6
35°	1004.3	1039.0	1189.3	1349.3	1451.9
37.5°	921.9	986.5	1106.1	1266.9	1400.2
40°	826.5	900.9	1023.7	1194.1	1284.6
42.5°	741.7	801.5	939.6	1056.8	1008.3
45°	681.1	728.8	881.5	810.4	764.3
47.5°	593.8	654.4	814.4	665.8	736.8
50°	516.3	568.8	686.8	629.4	703.7
52.5°	441.1	491.2	531.6	593.8	661.7
55°	377.3	413.7	444.4	534.1	441.9
57.5°	342.6	353.9	388.6	381.4	238.3
60°	311.1	315.9	348.2	257.7	226.2
62.5°	275.5	284.4	297.3	241.6	214.1
65°	244.0	250.5	256.1	227.8	203.6
67.5°	213.3	219.8	225.4	211.7	190.7
70°	182.6	186.6	193.9	190.7	172.9
72.5°	155.1	158.4	167.2	169.7	155.9
75°	129.3	132.5	139.8	147.0	134.9
77.5°	104.2	106.6	114.7	120.4	116.3
80°	79.2	83.2	87.3	94.5	94.5
82.5°	58.2	59.0	63.0	70.3	73.5
85°	35.5	35.5	38.0	43.6	52.5
87.5°	15.4	15.4	17.0	18.6	26.7
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	18.45	19.92	18.82	20.23	20.54	18.43	19.89	18.79	20.20	20.52
	3H	20.05	21.36	20.43	21.69	22.05	19.90	21.21	20.28	21.54	21.90
	4H	20.66	21.88	21.06	22.23	22.61	20.60	21.83	21.01	22.18	22.56
	6H	21.12	22.25	21.53	22.62	23.01	21.22	22.35	21.63	22.72	23.11
	8H	21.28	22.35	21.70	22.74	23.14	21.47	22.54	21.89	22.93	23.33
	12H	21.38	22.41	21.81	22.79	23.22	21.67	22.70	22.10	23.08	23.51
4H	2H	19.05	20.27	19.45	20.62	21.00	19.03	20.25	19.43	20.60	20.98
	3H	20.87	21.88	21.28	22.28	22.69	20.78	21.80	21.20	22.20	22.60
	4H	21.60	22.52	22.04	22.93	23.37	21.65	22.56	22.08	22.98	23.42
	6H	22.20	22.99	22.65	23.43	23.89	22.41	23.20	22.87	23.64	24.11
	8H	22.40	23.14	22.86	23.59	24.05	22.71	23.45	23.17	23.89	24.36
	12H	22.54	23.21	23.03	23.69	24.16	22.96	23.62	23.45	24.10	24.58
8H	4H	21.92	22.66	22.38	23.11	23.57	21.96	22.70	22.43	23.15	23.62
	6H	22.64	23.26	23.14	23.75	24.23	22.86	23.48	23.36	23.97	24.45
	8H	22.92	23.47	23.44	23.99	24.47	23.25	23.81	23.77	24.32	24.81
	12H	23.14	23.63	23.65	24.12	24.69	23.61	24.10	24.12	24.59	25.15
12H	4H	21.96	22.62	22.44	23.10	23.57	21.99	22.65	22.47	23.13	23.60
	6H	22.71	23.26	23.22	23.77	24.26	22.92	23.47	23.43	23.98	24.47
	8H	23.05	23.54	23.56	24.03	24.60	23.37	23.86	23.88	24.35	24.92