

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: P892858

Luminaire Tested: 2MB-5HL-LVRF-UNV-L935

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892858
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-5HL-LVRF-UNV-L935
Description: 5000 Lumen 2FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 90CRI, 3500K C
Light Source: -
Ballast/Driver: -

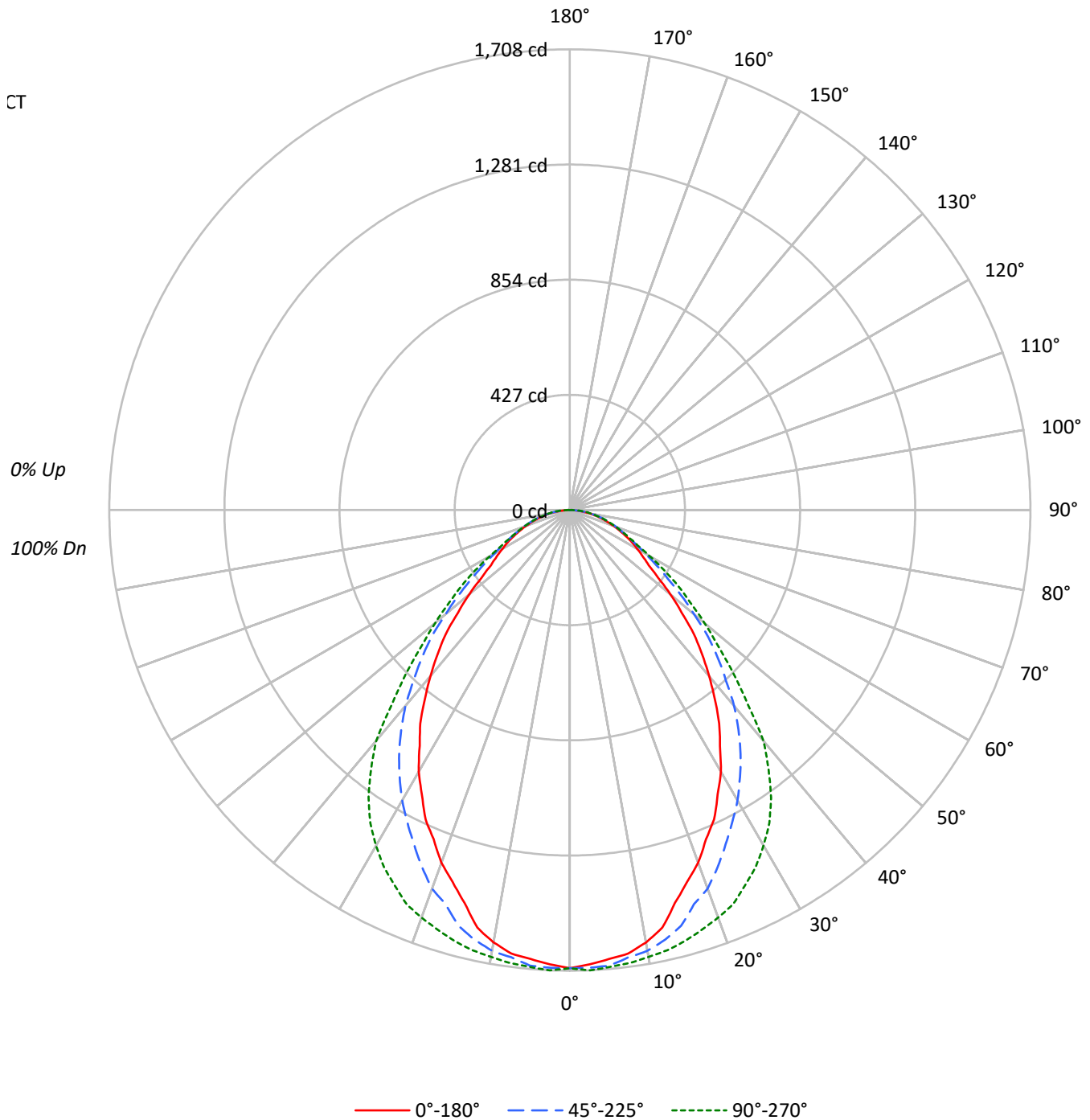
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3340.0 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.25 / 1.19
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_{in}): 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	100				
1	110	106	102	99	108	104	101	98	100	97	94	96	94	92	92	91	89	87				
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75				
3	94	85	77	72	92	83	76	71	80	75	70	78	73	69	75	71	68	66				
4	87	76	68	62	85	75	68	62	73	66	61	70	65	60	68	63	60	58				
5	81	69	61	55	79	68	60	55	66	59	54	64	58	54	62	57	53	51				
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	48	46				
7	70	58	50	44	68	57	49	44	55	48	43	54	48	43	53	47	43	41				
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37				
9	61	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	34				
10	58	45	38	33	57	45	38	33	44	37	33	43	37	33	42	37	33	31				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	24298	24298	24298
5°	23993	24345	24415
10°	23643	24105	24436
15°	22329	23634	24492
20°	21190	22743	24480
25°	19975	21585	24250
30°	18507	20541	23734
35°	16875	19282	22727
40°	14999	17709	20861
45°	13164	15722	17389
50°	10852	13393	14517
55°	8909	11064	12224
60°	8283	9193	9751
65°	7755	8171	8225
70°	7232	7642	7604
75°	6716	7257	7301
80°	6179	6714	6854
85°	5351	5893	7764

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 17389 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.2	4.8
10°-20°	446.8	13.4
20°-30°	638.6	19.1
30°-40°	696.7	20.9
40°-50°	586.8	17.6
50°-60°	390.9	11.7
60°-70°	241.2	7.2
70°-80°	136.7	4.1
80°-90°	42.2	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°	1245.6	37.3
0°-40°	1942.3	58.2
0°-60°	2920.0	87.4
0°-90°	3340.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3340.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1698	1698	1698	1698	1698	
5°	1671	1680	1695	1695	1700	158
15°	1508	1538	1596	1643	1654	425
25°	1266	1292	1368	1497	1536	578
35°	966	1009	1104	1234	1301	600
45°	651	687	777	828	860	497
55°	357	382	444	474	490	330
65°	229	232	241	251	243	228
75°	122	123	131	136	132	129
85°	33	34	36	42	47	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1698.5	1698.5	1698.5	1698.5	1698.5
2.5°	1686.3	1687.1	1698.5	1705.0	1708.3
5°	1670.8	1679.8	1695.3	1695.3	1700.2
7.5°	1658.6	1660.2	1672.4	1690.4	1694.4
10°	1627.6	1635.7	1659.4	1679.8	1682.2
12.5°	1586.0	1590.9	1631.7	1670.8	1671.6
15°	1507.7	1537.9	1595.8	1643.1	1653.7
17.5°	1445.7	1476.7	1532.2	1617.0	1630.8
20°	1391.9	1409.0	1493.9	1586.0	1608.0
22.5°	1320.2	1352.0	1432.7	1549.3	1581.9
25°	1265.5	1291.6	1367.5	1497.1	1536.3
27.5°	1188.1	1227.2	1304.7	1441.7	1492.2
30°	1120.4	1162.8	1243.5	1383.0	1436.8
32.5°	1036.4	1081.2	1174.2	1312.0	1376.4
35°	966.3	1008.7	1104.1	1233.7	1301.4
37.5°	883.1	931.2	1026.6	1148.1	1210.1
40°	803.2	844.0	948.3	1052.7	1117.1
42.5°	726.5	764.1	857.0	944.3	976.1
45°	650.7	686.6	777.1	828.5	859.5
47.5°	562.6	607.5	695.6	720.8	744.5
50°	487.6	525.1	601.8	624.6	652.3
52.5°	413.4	451.7	521.9	540.6	562.6
55°	357.2	382.4	443.6	473.8	490.1
57.5°	321.3	329.4	380.0	407.7	415.0
60°	289.5	294.4	321.3	346.6	340.8
62.5°	260.1	262.6	276.4	295.2	283.8
65°	229.1	231.6	241.4	251.1	243.0
67.5°	200.6	202.2	210.4	217.7	210.4
70°	172.9	173.7	182.7	187.5	181.8
72.5°	146.0	146.8	155.7	161.5	154.9
75°	121.5	123.1	131.3	136.2	132.1
77.5°	97.9	100.3	106.0	110.9	104.4
80°	75.0	76.6	81.5	87.3	83.2
82.5°	54.6	55.4	58.7	64.4	66.0
85°	32.6	34.2	35.9	41.6	47.3
87.5°	13.0	14.7	15.5	17.9	25.3
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	18.10	19.57	18.47	19.88	20.20	19.61	21.08	19.98	21.39	21.70
	3H	19.71	21.02	20.08	21.34	21.71	20.83	22.14	21.21	22.47	22.83
	4H	20.32	21.54	20.72	21.89	22.27	21.35	22.58	21.75	22.92	23.30
	6H	20.79	21.92	21.20	22.29	22.68	21.76	22.89	22.17	23.26	23.65
	8H	20.95	22.02	21.37	22.41	22.81	21.93	23.00	22.35	23.39	23.79
	12H	21.05	22.08	21.48	22.46	22.89	22.07	23.10	22.50	23.48	23.91
4H	2H	18.71	19.94	19.12	20.29	20.67	19.96	21.18	20.36	21.53	21.91
	3H	20.53	21.55	20.94	21.95	22.35	21.44	22.45	21.85	22.86	23.26
	4H	21.27	22.18	21.70	22.60	23.04	22.12	23.03	22.55	23.45	23.89
	6H	21.86	22.66	22.32	23.10	23.56	22.68	23.48	23.14	23.92	24.38
	8H	22.07	22.81	22.53	23.26	23.72	22.91	23.65	23.37	24.09	24.56
	12H	22.22	22.88	22.70	23.36	23.83	23.11	23.77	23.59	24.25	24.72
8H	4H	21.59	22.33	22.05	22.77	23.24	22.34	23.08	22.81	23.53	24.00
	6H	22.31	22.92	22.81	23.42	23.89	23.04	23.66	23.54	24.15	24.63
	8H	22.59	23.14	23.11	23.66	24.14	23.36	23.91	23.87	24.42	24.91
	12H	22.82	23.30	23.33	23.80	24.36	23.65	24.14	24.17	24.64	25.20
12H	4H	21.62	22.28	22.10	22.76	23.23	22.36	23.02	22.84	23.50	23.97
	6H	22.38	22.93	22.89	23.44	23.93	23.08	23.63	23.60	24.15	24.63
	8H	22.72	23.21	23.23	23.70	24.27	23.45	23.94	23.97	24.44	25.00