

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: P892852

Luminaire Tested: 2MB-5HL-LVRA-UNV-L950

Issue Date: 11/11/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P892852  
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-5HL-LVRA-UNV-L950  
Description: 5000 Lumen 2FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 90CRI, 5000K CCT  
Light Source: -  
Ballast/Driver: -

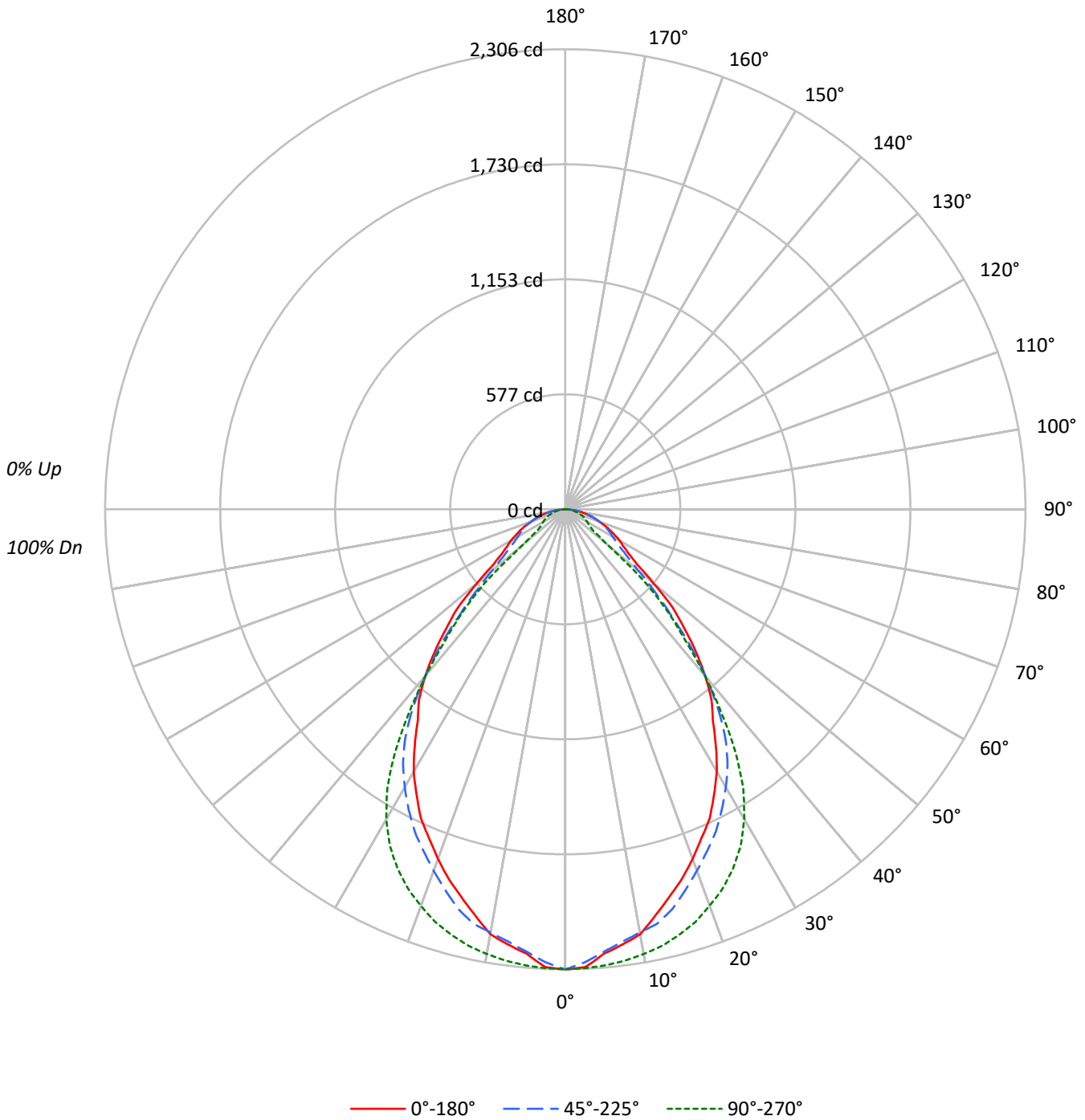
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3743.0 lumens  
Efficiency: N/A  
Efficacy: 111.1 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): 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	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°	32993	32993	32993
5°	32102	31957	32957
10°	31420	31282	32880
15°	29798	30715	32695
20°	28386	29345	32196
25°	27002	28156	31375
30°	25087	26578	29623
35°	22495	24425	25983
40°	20379	20424	20314
45°	17041	15092	14718
50°	12873	10623	6020
55°	9680	8495	3796
60°	8995	7822	3656
65°	8371	7806	3663
70°	7658	7658	3605
75°	7263	7456	3482
80°	6706	7052	3575
85°	5860	6139	3906

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 17437 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	213.0	5.7
10°-20°	587.0	15.7
20°-30°	832.4	22.2
30°-40°	857.5	22.9
40°-50°	599.0	16.0
50°-60°	287.4	7.7
60°-70°	201.6	5.4
70°-80°	126.1	3.4
80°-90°	39.0	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°	1632.4	43.6
0°-40°	2489.9	66.5
0°-60°	3376.3	90.2
0°-90°	3743.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3743.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2306	2306	2306	2306	2306	
5°	2236	2233	2225	2284	2295	212
15°	2012	2027	2074	2133	2208	567
25°	1711	1728	1784	1904	1988	782
35°	1288	1323	1399	1428	1488	812
45°	842	862	746	708	728	649
55°	388	369	341	218	152	364
65°	247	231	231	175	108	245
75°	131	130	135	116	63	138
85°	36	36	37	37	24	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2306.3	2306.3	2306.3	2306.3	2306.3
2.5°	2297.4	2290.2	2273.0	2304.5	2302.1
5°	2235.5	2232.6	2225.4	2283.7	2295.0
7.5°	2200.5	2194.5	2186.2	2250.4	2281.9
10°	2163.0	2170.2	2153.5	2212.4	2263.5
12.5°	2085.8	2104.8	2127.4	2173.1	2240.9
15°	2012.0	2026.9	2073.9	2133.3	2207.6
17.5°	1943.1	1960.3	2000.8	2089.9	2169.0
20°	1864.6	1888.4	1927.6	2041.8	2114.9
22.5°	1783.8	1805.8	1855.1	1977.6	2059.0
25°	1710.7	1727.9	1783.8	1904.5	1987.7
27.5°	1613.8	1645.9	1698.8	1815.3	1902.7
30°	1518.7	1546.0	1609.0	1707.1	1793.3
32.5°	1404.0	1443.8	1513.3	1588.2	1660.2
35°	1288.1	1323.1	1398.6	1427.8	1487.8
37.5°	1203.7	1213.2	1256.0	1252.4	1286.3
40°	1091.3	1110.3	1093.7	1049.1	1087.8
42.5°	970.1	992.7	925.5	873.8	887.4
45°	842.3	861.9	746.0	707.9	727.5
47.5°	731.7	729.9	601.5	576.0	548.6
50°	578.4	597.4	477.3	429.8	270.5
52.5°	451.7	458.9	393.5	274.6	177.7
55°	388.1	369.1	340.6	218.1	152.2
57.5°	344.8	321.0	302.0	202.7	139.1
60°	314.4	287.7	273.4	192.6	127.8
62.5°	280.0	259.2	253.8	183.7	117.7
65°	247.3	231.2	230.6	175.3	108.2
67.5°	214.6	205.7	208.0	165.2	97.5
70°	183.1	181.3	183.1	152.2	86.2
72.5°	156.3	154.5	159.3	135.5	73.7
75°	131.4	129.6	134.9	116.5	63.0
77.5°	104.6	105.8	109.4	96.9	52.9
80°	81.4	81.4	85.6	76.1	43.4
82.5°	58.3	58.8	61.2	55.9	33.9
85°	35.7	35.7	37.4	36.9	23.8
87.5°	11.9	13.7	16.0	17.2	11.9
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	17.79	19.15	18.16	19.46	19.78	14.13	15.48	14.49	15.79	16.11
	3H	19.53	20.74	19.91	21.07	21.43	16.10	17.31	16.48	17.64	18.00
	4H	20.20	21.33	20.61	21.68	22.06	16.81	17.93	17.21	18.28	18.67
	6H	20.71	21.75	21.13	22.12	22.51	17.33	18.37	17.74	18.74	19.13
	8H	20.88	21.87	21.31	22.26	22.66	17.52	18.50	17.94	18.89	19.30
	12H	20.99	21.93	21.42	22.32	22.75	17.65	18.60	18.09	18.98	19.41
4H	2H	18.32	19.45	18.73	19.80	20.18	15.75	16.88	16.15	17.23	17.61
	3H	20.30	21.23	20.71	21.64	22.04	17.93	18.86	18.34	19.26	19.66
	4H	21.10	21.94	21.54	22.36	22.80	18.81	19.64	19.24	20.06	20.50
	6H	21.75	22.47	22.21	22.92	23.38	19.45	20.17	19.91	20.62	21.08
	8H	21.97	22.64	22.43	23.09	23.56	19.66	20.33	20.13	20.78	21.25
	12H	22.12	22.72	22.61	23.20	23.68	19.82	20.42	20.30	20.90	21.37
8H	4H	21.39	22.06	21.86	22.51	22.98	19.46	20.13	19.92	20.58	21.05
	6H	22.17	22.73	22.67	23.22	23.70	20.32	20.87	20.82	21.37	21.85
	8H	22.47	22.97	22.99	23.49	23.98	20.64	21.14	21.16	21.66	22.15
	12H	22.71	23.15	23.22	23.64	24.21	20.91	21.35	21.42	21.84	22.41
12H	4H	21.41	22.01	21.89	22.49	22.96	19.53	20.13	20.01	20.61	21.08
	6H	22.22	22.72	22.74	23.24	23.73	20.45	20.95	20.97	21.47	21.96
	8H	22.59	23.03	23.10	23.52	24.09	20.87	21.31	21.38	21.80	22.37