

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: P892842

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892842
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-L935
Description: 5000 Lumen 2FT MICROBAY LINEAR BAY with LOUVER, 90CRI, 3500K CCT
Light Source: -
Ballast/Driver: -

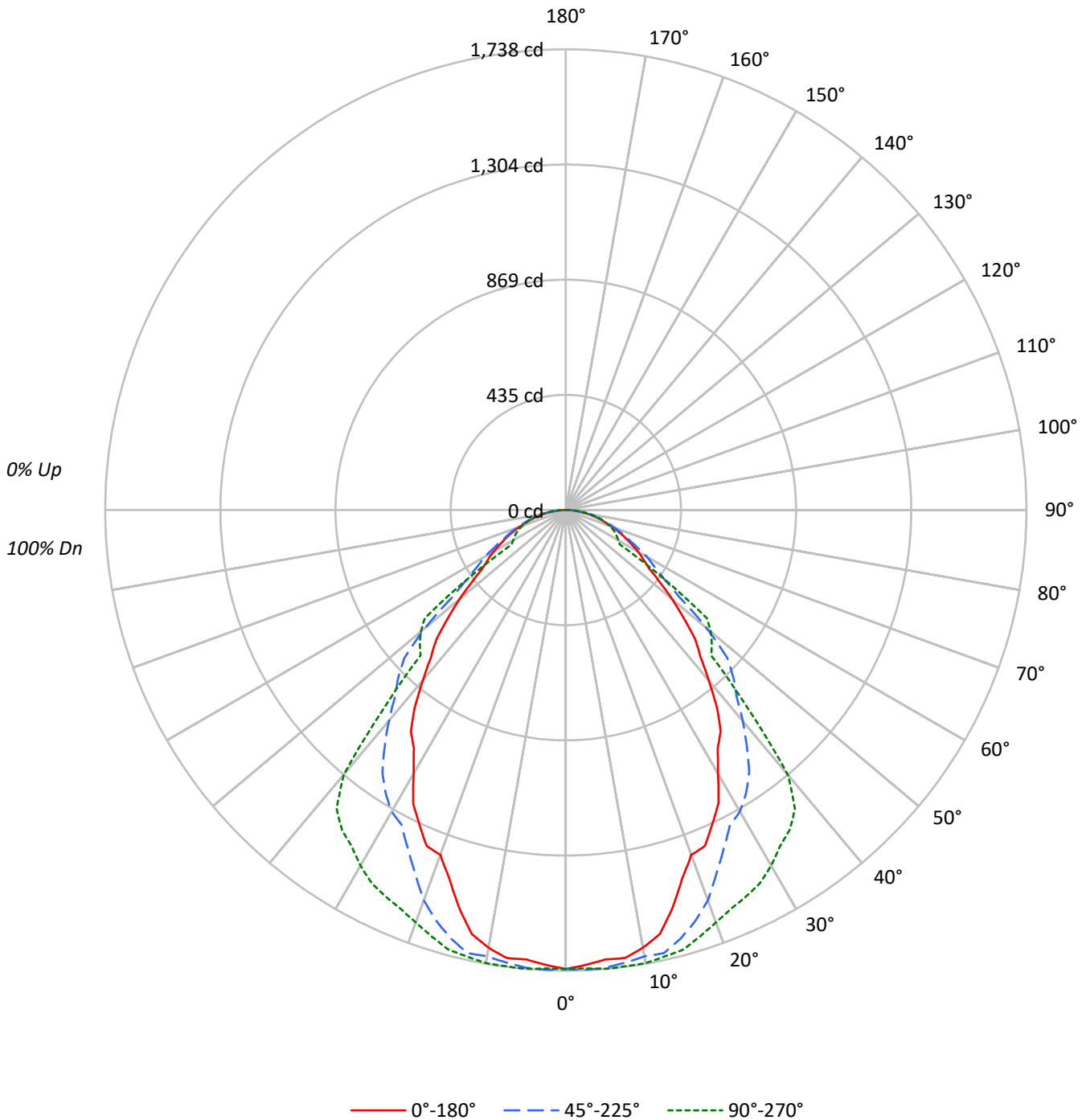
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3529.0 lumens
Efficiency: N/A
Efficacy: 104.7 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_{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	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°	24773	24773	24773
5°	24444	24892	24951
10°	24357	24834	25215
15°	23013	24785	25417
20°	21072	23855	25203
25°	20633	22250	25394
30°	18967	21702	25587
35°	17790	21068	25721
40°	15657	19392	24335
45°	13978	18089	15685
50°	11655	15503	15886
55°	9545	11243	11181
60°	9027	10105	6566
65°	8378	8794	6990
70°	7746	8227	7336
75°	7246	7838	7567
80°	6615	7291	7900
85°	5925	6319	8749

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 18089 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.6	4.7
10°-20°	463.3	13.1
20°-30°	668.3	18.9
30°-40°	758.0	21.5
40°-50°	631.3	17.9
50°-60°	408.0	11.6
60°-70°	241.9	6.9
70°-80°	147.5	4.2
80°-90°	46.0	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°	1296.2	36.7
0°-40°	2054.3	58.2
0°-60°	3093.6	87.7
0°-90°	3529.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3529.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1732	1732	1732	1732	1732	
5°	1702	1723	1733	1743	1738	162
15°	1554	1605	1674	1701	1716	433
25°	1307	1353	1410	1598	1609	598
35°	1019	1054	1206	1369	1473	627
45°	691	739	894	822	775	525
55°	383	420	451	542	448	356
65°	248	254	260	231	206	246
75°	131	134	142	149	137	139
85°	36	36	38	44	53	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1731.7	1731.7	1731.7	1731.7	1731.7
2.5°	1717.8	1733.4	1735.8	1749.8	1730.9
5°	1702.2	1722.7	1733.4	1743.2	1737.5
7.5°	1704.7	1716.2	1721.9	1739.1	1735.8
10°	1676.8	1699.8	1709.6	1730.1	1735.8
12.5°	1638.3	1667.8	1712.1	1708.0	1725.2
15°	1553.9	1604.7	1673.5	1700.6	1716.2
17.5°	1458.8	1515.4	1625.2	1689.1	1685.8
20°	1384.2	1426.9	1567.0	1657.2	1655.5
22.5°	1371.9	1381.8	1484.2	1635.0	1628.5
25°	1307.2	1353.1	1409.6	1598.1	1608.8
27.5°	1247.4	1288.4	1340.8	1551.4	1586.7
30°	1148.2	1218.7	1313.8	1501.4	1549.0
32.5°	1066.2	1134.3	1266.2	1440.0	1503.9
35°	1018.7	1054.0	1206.4	1368.7	1472.8
37.5°	935.1	1000.7	1122.0	1285.1	1420.3
40°	838.4	913.8	1038.4	1211.3	1303.1
42.5°	752.4	813.0	953.1	1072.0	1022.8
45°	690.9	739.2	894.1	822.0	775.3
47.5°	602.4	663.8	826.1	675.3	747.4
50°	523.7	577.0	696.6	638.4	713.8
52.5°	447.5	498.3	539.3	602.4	671.2
55°	382.7	419.6	450.8	541.7	448.3
57.5°	347.5	359.0	394.2	386.8	241.8
60°	315.5	320.4	353.2	261.4	229.5
62.5°	279.5	288.5	301.6	245.0	217.2
65°	247.5	254.1	259.8	231.1	206.5
67.5°	216.4	222.9	228.7	214.7	193.4
70°	185.2	189.3	196.7	193.4	175.4
72.5°	157.4	160.6	169.6	172.1	158.2
75°	131.1	134.4	141.8	149.2	136.9
77.5°	105.7	108.2	116.4	122.1	118.0
80°	80.3	84.4	88.5	95.9	95.9
82.5°	59.0	59.8	63.9	71.3	74.6
85°	36.1	36.1	38.5	44.3	53.3
87.5°	15.6	15.6	17.2	18.8	27.0
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	18.50	19.97	18.87	20.28	20.59	18.47	19.94	18.84	20.25	20.56
	3H	20.10	21.41	20.48	21.74	22.10	19.95	21.26	20.33	21.59	21.95
	4H	20.71	21.93	21.11	22.28	22.66	20.65	21.88	21.05	22.23	22.61
	6H	21.17	22.30	21.58	22.67	23.06	21.27	22.40	21.68	22.77	23.16
	8H	21.33	22.40	21.75	22.79	23.19	21.52	22.59	21.94	22.98	23.38
	12H	21.43	22.46	21.86	22.84	23.27	21.72	22.75	22.15	23.13	23.56
4H	2H	19.10	20.32	19.50	20.67	21.05	19.08	20.30	19.48	20.65	21.03
	3H	20.92	21.93	21.33	22.33	22.74	20.83	21.85	21.24	22.25	22.65
	4H	21.65	22.56	22.09	22.98	23.42	21.70	22.61	22.13	23.03	23.47
	6H	22.24	23.04	22.70	23.48	23.94	22.46	23.25	22.92	23.69	24.16
	8H	22.45	23.19	22.91	23.63	24.10	22.76	23.50	23.22	23.94	24.41
	12H	22.59	23.26	23.08	23.74	24.21	23.01	23.67	23.50	24.15	24.63
8H	4H	21.97	22.71	22.43	23.16	23.62	22.01	22.75	22.48	23.20	23.67
	6H	22.69	23.31	23.19	23.80	24.28	22.91	23.53	23.41	24.02	24.50
	8H	22.97	23.52	23.49	24.03	24.52	23.30	23.86	23.82	24.37	24.86
	12H	23.19	23.68	23.70	24.17	24.74	23.66	24.15	24.17	24.64	25.21
12H	4H	22.01	22.67	22.49	23.15	23.62	22.04	22.70	22.52	23.18	23.65
	6H	22.76	23.31	23.27	23.82	24.31	22.97	23.52	23.48	24.03	24.52
	8H	23.10	23.59	23.61	24.08	24.65	23.42	23.91	23.93	24.40	24.97