

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: P892543

Luminaire Tested: 2MB-2SL-LVRA-UNV-L840

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892543
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-2SL-LVRA-UNV-L840
Description: 2000 Lumen 2FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 80CRI, 4000K CCT
Light Source: -
Ballast/Driver: -

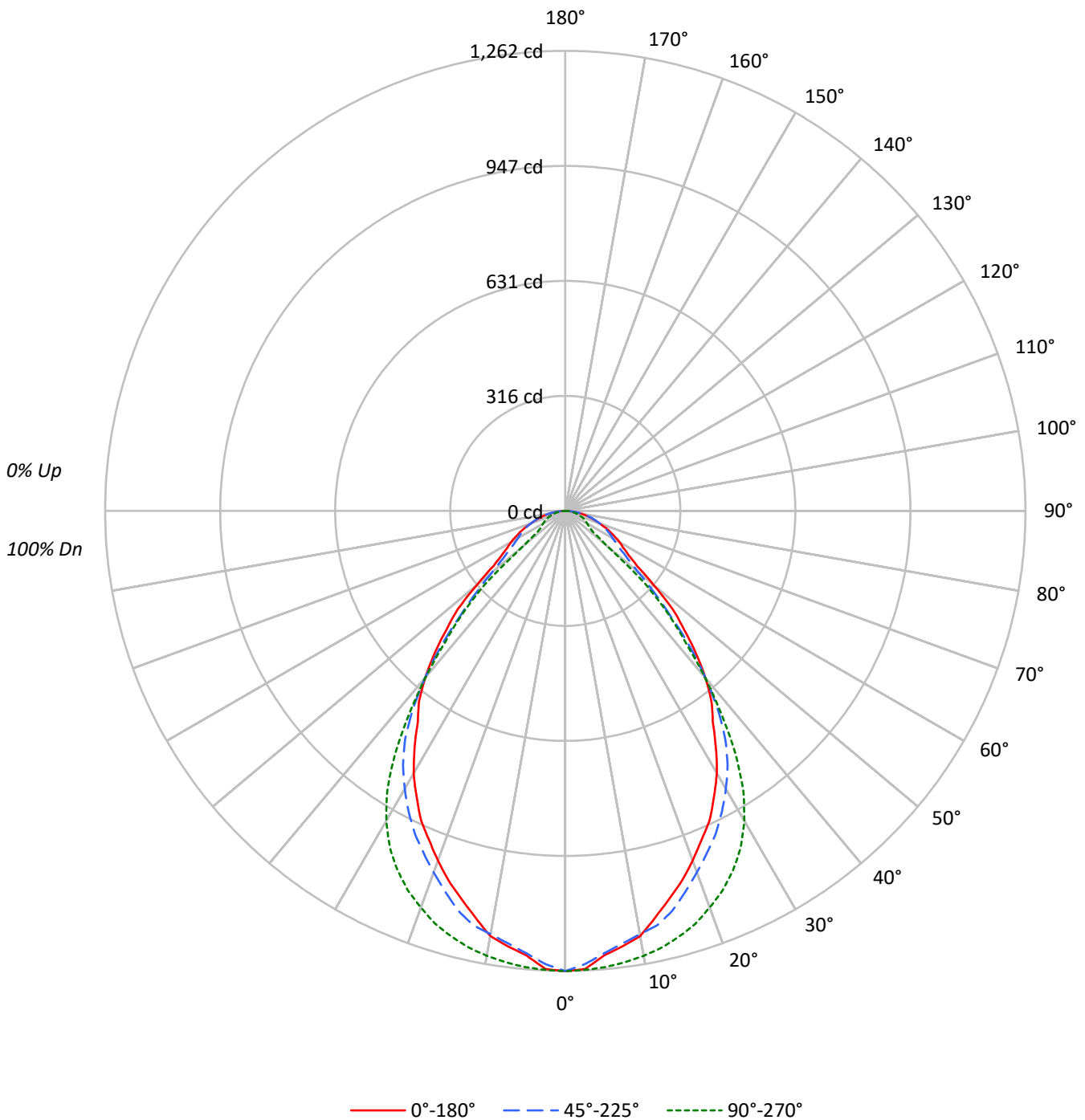
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2049.0 lumens
Efficiency: N/A
Efficacy: 137.5 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): 14.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 5.92
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°	18061	18061	18061
5°	17574	17495	18041
10°	17200	17125	17999
15°	16312	16814	17898
20°	15539	16064	17624
25°	14782	15413	17175
30°	13734	14550	16216
35°	12314	13370	14223
40°	11156	11180	11121
45°	9329	8262	8058
50°	7046	5815	3296
55°	5300	4649	2078
60°	4924	4283	2003
65°	4583	4275	2004
70°	4191	4191	1974
75°	3974	4085	1907
80°	3674	3864	1961
85°	3201	3365	2134

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 9545 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.6	5.7
10°-20°	321.3	15.7
20°-30°	455.7	22.2
30°-40°	469.4	22.9
40°-50°	327.9	16.0
50°-60°	157.3	7.7
60°-70°	110.4	5.4
70°-80°	69.0	3.4
80°-90°	21.3	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°	893.6	43.6
0°-40°	1363.0	66.5
0°-60°	1848.3	90.2
0°-90°	2049.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2049.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1262	1262	1262	1262	1262	
5°	1224	1222	1218	1250	1256	116
15°	1101	1110	1135	1168	1208	310
25°	936	946	976	1042	1088	428
35°	705	724	766	782	814	444
45°	461	472	408	388	398	355
55°	212	202	186	119	83	199
65°	135	127	126	96	59	134
75°	72	71	74	64	34	76
85°	20	20	20	20	13	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1262.5	1262.5	1262.5	1262.5	1262.5
2.5°	1257.6	1253.7	1244.3	1261.5	1260.2
5°	1223.8	1222.2	1218.3	1250.1	1256.3
7.5°	1204.6	1201.3	1196.8	1231.9	1249.2
10°	1184.1	1188.0	1178.9	1211.1	1239.1
12.5°	1141.8	1152.2	1164.6	1189.6	1226.7
15°	1101.4	1109.6	1135.3	1167.8	1208.5
17.5°	1063.7	1073.1	1095.3	1144.1	1187.3
20°	1020.7	1033.8	1055.2	1117.7	1157.7
22.5°	976.5	988.5	1015.5	1082.6	1127.1
25°	936.5	945.9	976.5	1042.5	1088.1
27.5°	883.4	901.0	930.0	993.7	1041.6
30°	831.4	846.3	880.8	934.5	981.7
32.5°	768.6	790.4	828.4	869.4	908.8
35°	705.1	724.3	765.6	781.6	814.4
37.5°	658.9	664.1	687.5	685.6	704.1
40°	597.4	607.8	598.7	574.3	595.5
42.5°	531.0	543.4	506.6	478.3	485.8
45°	461.1	471.8	408.4	387.5	398.3
47.5°	400.6	399.6	329.3	315.3	300.3
50°	316.6	327.0	261.3	235.3	148.1
52.5°	247.3	251.2	215.4	150.3	97.3
55°	212.5	202.1	186.4	119.4	83.3
57.5°	188.7	175.7	165.3	111.0	76.1
60°	172.1	157.5	149.7	105.4	70.0
62.5°	153.3	141.9	138.9	100.5	64.4
65°	135.4	126.6	126.3	96.0	59.2
67.5°	117.5	112.6	113.9	90.5	53.4
70°	100.2	99.2	100.2	83.3	47.2
72.5°	85.6	84.6	87.2	74.2	40.3
75°	71.9	70.9	73.9	63.8	34.5
77.5°	57.3	57.9	59.9	53.0	29.0
80°	44.6	44.6	46.9	41.6	23.8
82.5°	31.9	32.2	33.5	30.6	18.5
85°	19.5	19.5	20.5	20.2	13.0
87.5°	6.5	7.5	8.8	9.4	6.5
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	15.70	17.05	16.07	17.37	17.68	12.03	13.39	12.40	13.70	14.02
	3H	17.44	18.65	17.82	18.98	19.34	14.01	15.22	14.39	15.55	15.91
	4H	18.11	19.24	18.51	19.59	19.97	14.72	15.84	15.12	16.19	16.58
	6H	18.62	19.66	19.03	20.03	20.42	15.24	16.28	15.65	16.65	17.04
	8H	18.79	19.77	19.22	20.16	20.57	15.42	16.41	15.85	16.80	17.20
	12H	18.90	19.84	19.33	20.22	20.65	15.56	16.50	15.99	16.89	17.32
4H	2H	16.23	17.36	16.63	17.71	18.09	13.66	14.78	14.06	15.13	15.52
	3H	18.21	19.14	18.62	19.54	19.94	15.83	16.77	16.25	17.17	17.57
	4H	19.01	19.85	19.44	20.26	20.71	16.71	17.55	17.15	17.97	18.41
	6H	19.65	20.38	20.12	20.82	21.29	17.36	18.08	17.82	18.53	18.99
	8H	19.87	20.55	20.34	21.00	21.47	17.57	18.24	18.03	18.69	19.16
	12H	20.03	20.63	20.51	21.11	21.58	17.72	18.32	18.21	18.80	19.28
8H	4H	19.29	19.97	19.76	20.42	20.89	17.36	18.04	17.83	18.49	18.96
	6H	20.08	20.63	20.58	21.13	21.61	18.22	18.78	18.72	19.27	19.75
	8H	20.38	20.88	20.90	21.39	21.88	18.55	19.05	19.07	19.56	20.06
	12H	20.61	21.05	21.13	21.55	22.12	18.81	19.26	19.33	19.75	20.32
12H	4H	19.31	19.91	19.80	20.39	20.87	17.44	18.04	17.92	18.52	18.99
	6H	20.13	20.63	20.65	21.14	21.63	18.36	18.86	18.88	19.37	19.87
	8H	20.49	20.94	21.01	21.43	22.00	18.77	19.21	19.29	19.71	20.28