

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: P892542

Luminaire Tested: 2MB-2SL-LVRA-UNV-L835

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892542
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-L835
Description: 2000 Lumen 2FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 80CRI, 3500K CCT
Light Source: -
Ballast/Driver: -

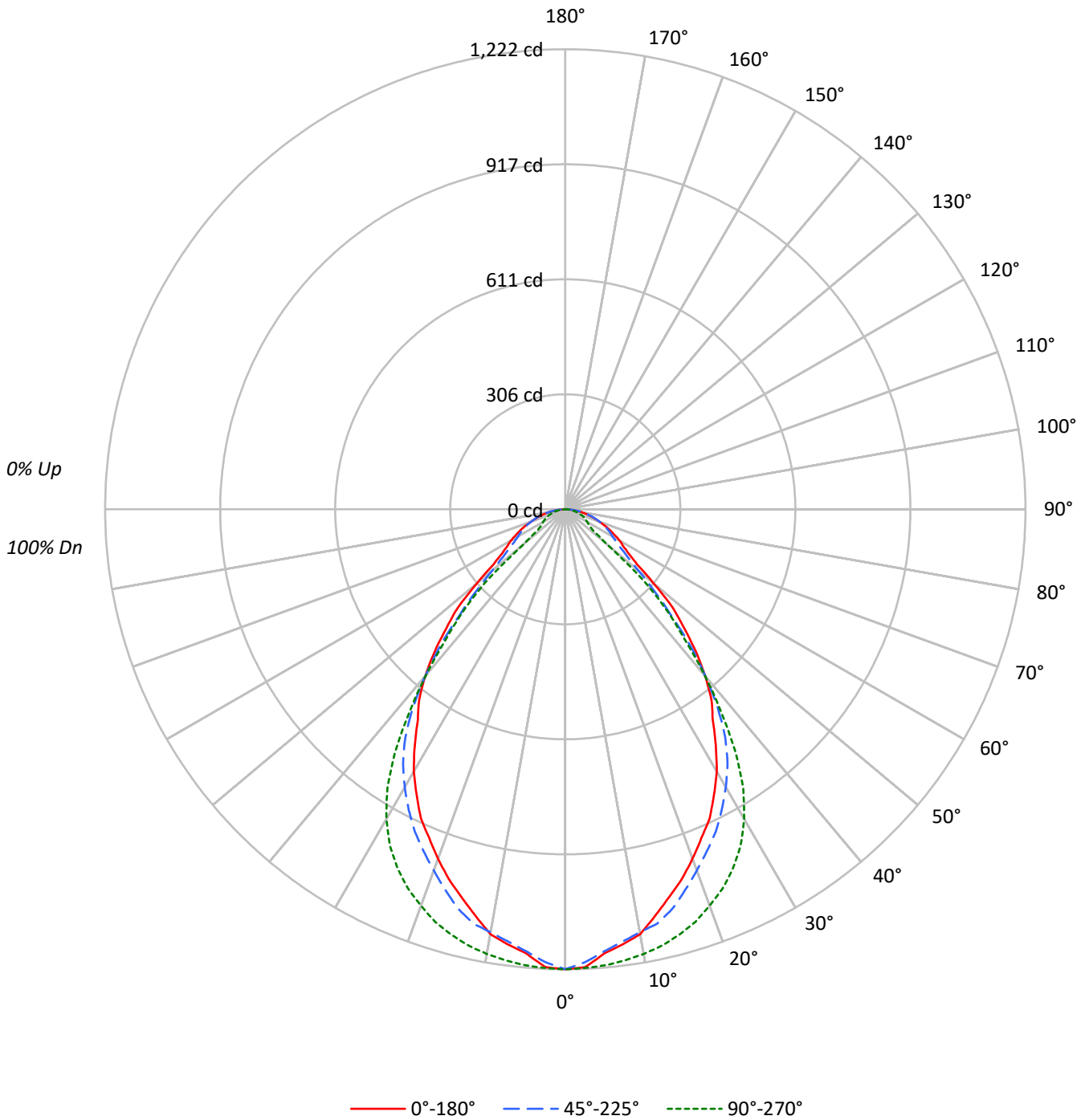
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1983.0 lumens
Efficiency: N/A
Efficacy: 133.1 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): 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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88	88	88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78	78	78
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69	69	69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62	62	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55	55	55
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	50	50	50
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	45	45	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41	41	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38	38	38
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	35	35	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17478	17478	17478
5°	17008	16931	17460
10°	16646	16573	17420
15°	15788	16272	17322
20°	15039	15546	17057
25°	14305	14916	16621
30°	13291	14082	15694
35°	11917	12941	13765
40°	10798	10820	10762
45°	9027	7995	7797
50°	6819	5628	3189
55°	5128	4499	2010
60°	4767	4146	1937
65°	4434	4136	1940
70°	4057	4057	1911
75°	3847	3952	1846
80°	3551	3732	1895
85°	3102	3250	2068

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 9237 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.9	5.7
10°-20°	311.0	15.7
20°-30°	441.0	22.2
30°-40°	454.3	22.9
40°-50°	317.3	16.0
50°-60°	152.3	7.7
60°-70°	106.8	5.4
70°-80°	66.8	3.4
80°-90°	20.6	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°	864.8	43.6
0°-40°	1319.1	66.5
0°-60°	1788.7	90.2
0°-90°	1983.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1983.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1222	1222	1222	1222	1222	
5°	1184	1183	1179	1210	1216	112
15°	1066	1074	1099	1130	1170	300
25°	906	915	945	1009	1053	414
35°	682	701	741	756	788	430
45°	446	457	395	375	385	344
55°	206	196	180	116	81	193
65°	131	122	122	93	57	130
75°	70	69	72	62	33	73
85°	19	19	20	20	13	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1221.8	1221.8	1221.8	1221.8	1221.8
2.5°	1217.1	1213.3	1204.2	1220.9	1219.6
5°	1184.4	1182.8	1179.0	1209.9	1215.9
7.5°	1165.8	1162.6	1158.2	1192.2	1208.9
10°	1145.9	1149.7	1140.9	1172.1	1199.2
12.5°	1105.0	1115.1	1127.1	1151.3	1187.2
15°	1066.0	1073.8	1098.7	1130.2	1169.6
17.5°	1029.4	1038.6	1060.0	1107.2	1149.1
20°	987.9	1000.5	1021.2	1081.7	1120.4
22.5°	945.0	956.7	982.8	1047.7	1090.8
25°	906.3	915.4	945.0	1009.0	1053.0
27.5°	855.0	872.0	900.0	961.7	1008.0
30°	804.6	819.1	852.5	904.4	950.1
32.5°	743.8	764.9	801.8	841.4	879.5
35°	682.4	701.0	741.0	756.4	788.2
37.5°	637.7	642.7	665.4	663.5	681.5
40°	578.2	588.2	579.4	555.8	576.3
42.5°	513.9	525.9	490.3	462.9	470.2
45°	446.2	456.6	395.2	375.1	385.4
47.5°	387.7	386.7	318.7	305.1	290.7
50°	306.4	316.5	252.9	227.7	143.3
52.5°	239.3	243.1	208.5	145.5	94.2
55°	205.6	195.6	180.4	115.6	80.6
57.5°	182.6	170.0	160.0	107.4	73.7
60°	166.6	152.4	144.9	102.0	67.7
62.5°	148.3	137.3	134.5	97.3	62.4
65°	131.0	122.5	122.2	92.9	57.3
67.5°	113.7	109.0	110.2	87.5	51.6
70°	97.0	96.0	97.0	80.6	45.7
72.5°	82.8	81.9	84.4	71.8	39.0
75°	69.6	68.6	71.5	61.7	33.4
77.5°	55.4	56.1	57.9	51.3	28.0
80°	43.1	43.1	45.3	40.3	23.0
82.5°	30.9	31.2	32.4	29.6	17.9
85°	18.9	18.9	19.8	19.5	12.6
87.5°	6.3	7.2	8.5	9.1	6.3
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	15.59	16.94	15.95	17.25	17.57	11.92	13.27	12.29	13.59	13.90
	3H	17.32	18.53	17.70	18.86	19.23	13.89	15.10	14.27	15.43	15.80
	4H	18.00	19.12	18.40	19.47	19.86	14.60	15.73	15.00	16.08	16.46
	6H	18.50	19.54	18.92	19.91	20.30	15.12	16.16	15.54	16.53	16.92
	8H	18.67	19.66	19.10	20.05	20.45	15.31	16.29	15.74	16.68	17.09
	12H	18.78	19.73	19.22	20.11	20.54	15.45	16.39	15.88	16.77	17.20
4H	2H	16.12	17.24	16.52	17.59	17.98	13.54	14.67	13.94	15.02	15.40
	3H	18.09	19.02	18.51	19.43	19.83	15.72	16.65	16.13	17.05	17.46
	4H	18.90	19.73	19.33	20.15	20.59	16.60	17.43	17.03	17.85	18.29
	6H	19.54	20.26	20.00	20.71	21.17	17.24	17.97	17.70	18.41	18.88
	8H	19.76	20.44	20.23	20.88	21.35	17.45	18.13	17.92	18.57	19.04
	12H	19.91	20.51	20.40	21.00	21.47	17.61	18.21	18.09	18.69	19.16
8H	4H	19.18	19.86	19.65	20.30	20.77	17.25	17.92	17.71	18.37	18.84
	6H	19.96	20.52	20.46	21.01	21.49	18.11	18.66	18.61	19.16	19.64
	8H	20.27	20.76	20.78	21.28	21.77	18.44	18.93	18.96	19.45	19.94
	12H	20.50	20.94	21.01	21.43	22.00	18.70	19.14	19.21	19.63	20.20
12H	4H	19.20	19.80	19.68	20.28	20.75	17.32	17.92	17.80	18.40	18.87
	6H	20.01	20.51	20.53	21.03	21.52	18.24	18.74	18.76	19.26	19.75
	8H	20.38	20.82	20.89	21.31	21.88	18.66	19.10	19.17	19.59	20.16