

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: P892556

Luminaire Tested: 2MB-2SL-LVRF-UNV-L950

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892556
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-2SL-LVRF-UNV-L950
Description: 2000 Lumen 2FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 90CRI, 5000K C
Light Source: -
Ballast/Driver: -

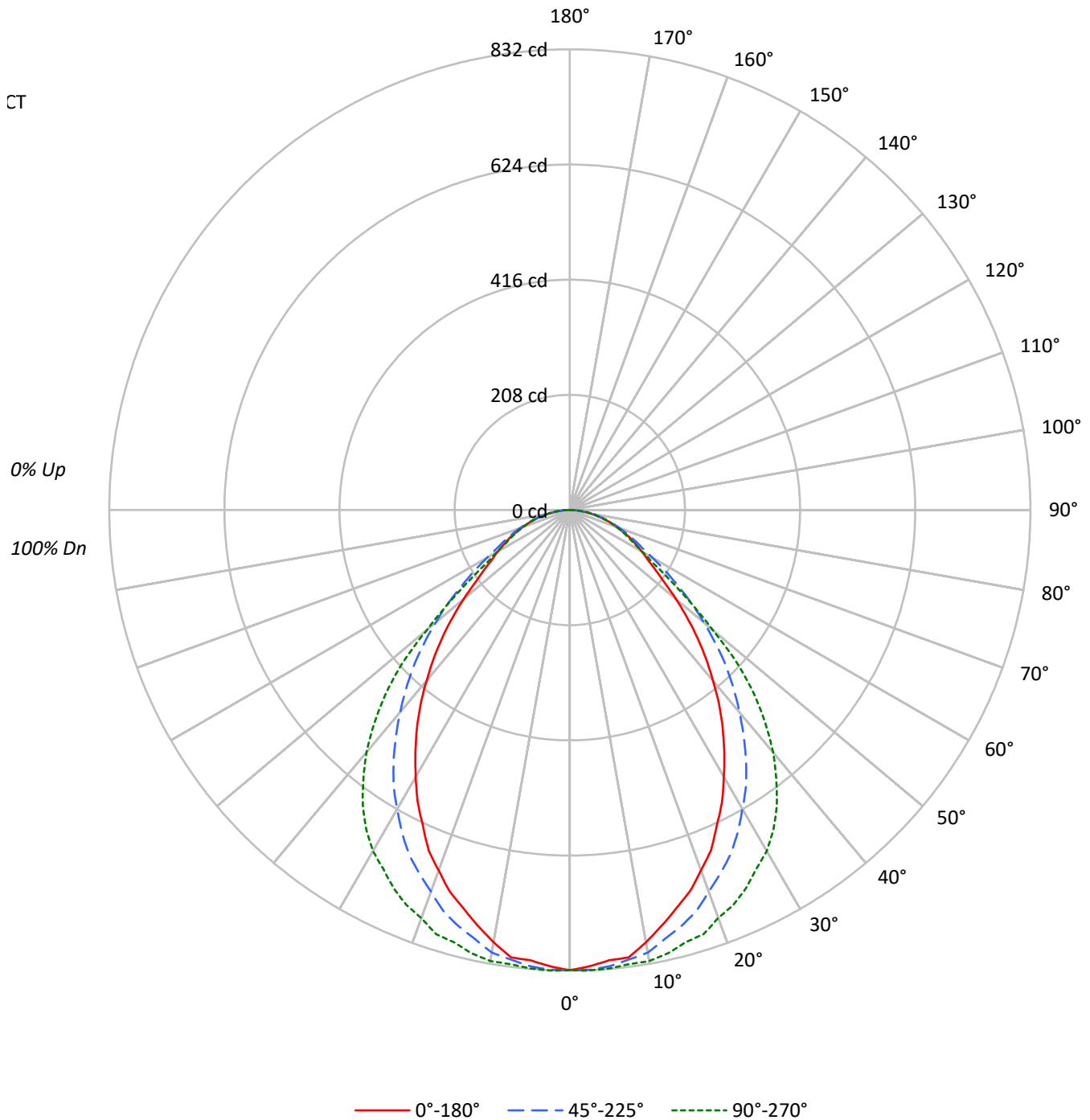
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1684.0 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Spacing Criteria (0/90/45): 1.04 / 1.26 / 1.21
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	110	106	102	99	108	104	100	97	100	97	94	96	94	91	92	90	89	89	89	89	87
2	102	94	88	83	99	93	87	82	89	84	80	86	82	79	83	80	77	77	77	77	75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	67	67	67	65
4	87	76	68	62	84	75	67	62	72	66	61	70	64	60	68	63	59	59	59	59	57
5	80	69	61	54	78	68	60	54	66	59	54	64	58	53	62	57	53	53	53	53	51
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	47	47	47	45
7	70	57	49	43	68	56	49	43	55	48	43	54	47	43	52	47	42	42	42	42	41
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	38	38	38	37
9	61	49	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	35	35	35	33
10	57	45	38	33	56	45	37	33	44	37	32	43	37	32	42	36	32	32	32	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11886	11886	11886
5°	11722	11876	11932
10°	11512	11791	12013
15°	11020	11521	11965
20°	10545	11165	11935
25°	9916	10836	11890
30°	9196	10301	11746
35°	8409	9696	11386
40°	7515	8906	10669
45°	6587	8078	9539
50°	5571	7042	7502
55°	4711	5918	5497
60°	4306	4944	4329
65°	4082	4340	3927
70°	3823	4015	3756
75°	3565	3775	3609
80°	3287	3542	3477
85°	2905	3151	3775

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 9539 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.4	4.7
10°-20°	219.3	13.0
20°-30°	316.2	18.8
30°-40°	348.7	20.7
40°-50°	305.3	18.1
50°-60°	200.6	11.9
60°-70°	122.6	7.3
70°-80°	70.9	4.2
80°-90°	22.0	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°	613.9	36.5
0°-40°	962.6	57.2
0°-60°	1468.5	87.2
0°-90°	1684.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1684.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	831	831	831	831	831	
5°	816	825	827	832	831	78
15°	744	756	778	803	808	210
25°	628	650	686	728	753	289
35°	482	502	555	617	652	300
45°	326	346	399	448	472	251
55°	189	199	237	238	220	172
65°	121	121	128	123	116	119
75°	64	64	68	70	65	69
85°	18	18	19	21	23	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	830.9	830.9	830.9	830.9	830.9
2.5°	824.7	829.4	830.9	834.0	832.4
5°	816.3	824.7	827.0	831.7	830.9
7.5°	814.8	811.7	818.6	827.8	827.0
10°	792.5	798.6	811.7	825.5	827.0
12.5°	768.7	778.7	793.3	817.1	820.1
15°	744.1	756.4	777.9	803.2	807.9
17.5°	721.8	734.1	759.5	787.9	803.2
20°	692.7	709.6	733.4	768.7	784.0
22.5°	665.8	679.6	710.3	748.7	771.8
25°	628.2	649.7	686.5	728.0	753.3
27.5°	595.1	615.1	656.6	702.6	730.3
30°	556.7	579.0	623.6	675.0	711.1
32.5°	519.1	539.8	592.1	645.1	684.2
35°	481.5	502.2	555.2	616.6	652.0
37.5°	443.1	464.6	516.0	579.0	612.8
40°	402.4	427.0	476.9	539.1	571.3
42.5°	364.0	387.0	437.7	498.4	523.0
45°	325.6	345.6	399.3	448.5	471.5
47.5°	287.2	306.4	357.9	398.6	411.6
50°	250.3	268.0	316.4	341.7	337.1
52.5°	215.8	231.9	278.0	288.0	274.9
55°	188.9	198.9	237.3	238.1	220.4
57.5°	166.6	174.3	204.3	196.6	177.4
60°	150.5	152.8	172.8	164.3	151.3
62.5°	134.4	135.9	146.7	140.5	130.5
65°	120.6	120.6	128.2	122.9	116.0
67.5°	105.2	106.0	111.3	108.3	102.9
70°	91.4	91.4	96.0	96.0	89.8
72.5°	77.6	77.6	81.4	82.2	78.3
75°	64.5	64.5	68.3	69.9	65.3
77.5°	52.2	52.2	55.3	57.6	52.2
80°	39.9	39.9	43.0	45.3	42.2
82.5°	28.4	29.2	30.7	33.0	33.0
85°	17.7	17.7	19.2	20.7	23.0
87.5°	7.7	8.4	9.2	10.0	11.5
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	16.01	17.49	16.38	17.80	18.12	16.76	18.23	17.12	18.55	18.86
	3H	17.61	18.93	17.99	19.26	19.62	18.10	19.42	18.48	19.75	20.11
	4H	18.23	19.47	18.63	19.82	20.19	18.67	19.91	19.07	20.26	20.64
	6H	18.70	19.85	19.12	20.21	20.61	19.13	20.27	19.54	20.64	21.03
	8H	18.86	19.95	19.29	20.34	20.74	19.31	20.40	19.74	20.79	21.19
	12H	18.97	20.01	19.40	20.39	20.82	19.46	20.50	19.89	20.88	21.31
4H	2H	16.64	17.88	17.04	18.22	18.60	17.24	18.47	17.64	18.82	19.20
	3H	18.45	19.47	18.86	19.87	20.27	18.84	19.87	19.25	20.27	20.67
	4H	19.18	20.10	19.62	20.52	20.96	19.57	20.49	20.00	20.91	21.35
	6H	19.78	20.58	20.24	21.03	21.49	20.18	20.98	20.64	21.43	21.89
	8H	19.98	20.73	20.45	21.18	21.65	20.42	21.17	20.88	21.61	22.08
	12H	20.13	20.80	20.62	21.28	21.75	20.62	21.29	21.10	21.77	22.24
8H	4H	19.49	20.24	19.96	20.69	21.15	19.84	20.59	20.30	21.03	21.50
	6H	20.22	20.84	20.72	21.33	21.81	20.59	21.21	21.09	21.71	22.18
	8H	20.50	21.06	21.01	21.57	22.06	20.92	21.48	21.43	21.99	22.48
	12H	20.72	21.22	21.23	21.71	22.28	21.21	21.71	21.72	22.20	22.76
12H	4H	19.53	20.20	20.01	20.68	21.15	19.86	20.53	20.34	21.01	21.48
	6H	20.28	20.84	20.80	21.35	21.84	20.64	21.20	21.16	21.71	22.20
	8H	20.62	21.12	21.13	21.61	22.18	21.03	21.52	21.54	22.01	22.58