

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: P892516

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892516
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2410-248-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-2SL-ASYMR-UNV-L950
Description: 2000 Lumen 2FT MICROBAY LINEAR BAY with ASYMMERIC REFLECTOR, 90CRI, 5000K CCT
Light Source: -
Ballast/Driver: -

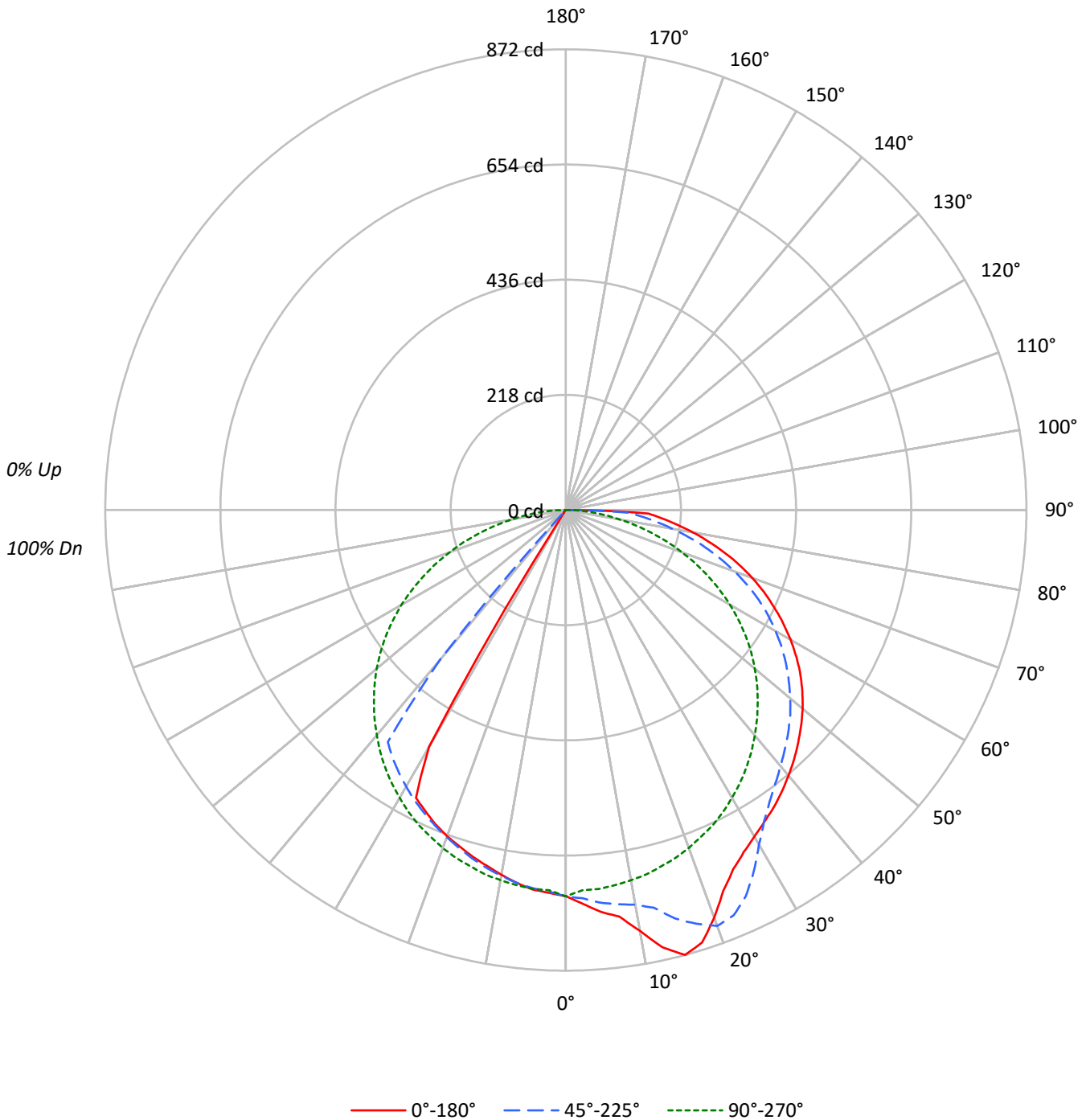
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1978.0 lumens
Efficiency: N/A
Efficacy: 132.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.28 / 1.25
Luminous Opening: Rectangular (W 0.21' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 14.9
Input Voltage (V):
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	100				
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83				
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69				
3	90	79	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59				
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	50				
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44				
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39				
7	66	52	44	37	64	51	43	37	50	42	37	48	42	37	47	41	36	35				
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31				
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28				
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	32	27	26				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	19088	19088	19088	19088	19088
5°	20015	19554	18864	18830	18896
10°	21447	20114	18860	18637	18581
15°	23564	21639	18866	18458	18369
20°	22813	23277	18915	18312	18254
25°	21614	23230	18961	18249	18117
30°	21522	22052	18959	18227	15601
35°	21886	21447	18989	18231	214
40°	22361	21550	18966	12573	143
45°	22973	21983	18971	233	92
50°	23777	22534	18980	171	32
55°	24680	23178	18926	114	18
60°	25669	23962	18761	42	21
65°	26873	24908	18416	49	49
70°	28671	25954	17832	61	61
75°	31382	27619	17068	171	81
80°	36821	30912	15802	256	120
85°	54819	43406	14798	389	240

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 93971 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.1	3.5
10°-20°	209.2	10.6
20°-30°	321.5	16.3
30°-40°	344.6	17.4
40°-50°	313.0	15.8
50°-60°	285.5	14.4
60°-70°	212.4	10.7
70°-80°	149.5	7.6
80°-90°	72.4	3.7
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°	600.8	30.4
0°-40°	945.3	47.8
0°-60°	1543.7	78.0
0°-90°	1978.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1978.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	731	731	731	731	731	
5°	764	746	720	718	721	74
15°	872	801	698	683	680	241
25°	750	806	658	634	629	349
35°	687	673	596	572	7	430
45°	622	595	514	6	2	481
55°	542	509	416	2	0	484
65°	435	403	298	1	1	431
75°	311	274	169	2	1	328
85°	183	145	49	1	1	184
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	731.1	731.1	731.1	731.1	731.1	731.1	731.1	731.1	731.1
2.5°	746.1	737.8	735.7	741.5	720.2	734.4	722.7	725.2	725.2
5°	763.7	752.0	746.1	744.5	719.8	729.4	718.5	718.5	721.0
7.5°	775.9	762.9	752.4	748.2	716.0	724.4	711.8	711.8	711.8
10°	809.0	784.7	758.7	751.2	711.4	717.7	703.0	703.9	700.9
12.5°	847.9	826.1	770.9	749.9	706.4	709.3	693.8	693.4	690.0
15°	871.8	855.4	800.6	748.2	698.0	700.5	682.9	681.7	679.6
17.5°	858.4	855.8	821.1	747.0	690.5	688.4	670.8	669.5	667.8
20°	821.1	827.4	837.8	744.5	680.8	676.6	659.1	658.2	657.0
22.5°	779.6	785.9	830.3	748.7	669.1	664.1	646.5	645.7	644.0
25°	750.3	750.3	806.4	758.7	658.2	649.0	633.5	632.3	628.9
27.5°	729.8	726.0	770.9	770.0	644.4	633.9	619.7	618.4	614.3
30°	713.9	707.6	731.5	775.5	628.9	617.6	604.6	603.4	517.5
32.5°	699.7	693.0	698.4	780.1	613.4	600.0	588.7	420.0	18.4
35°	686.7	679.2	672.9	776.7	595.8	582.4	572.0	12.1	6.7
37.5°	672.0	666.2	651.9	759.1	577.0	563.6	553.5	6.7	5.9
40°	656.1	650.7	632.3	733.2	556.5	545.2	368.9	5.9	4.2
42.5°	639.8	635.6	613.8	695.5	536.0	524.6	11.7	4.6	3.3
45°	622.2	618.4	595.4	649.8	513.8	503.3	6.3	3.3	2.5
47.5°	604.2	598.8	576.1	600.9	491.2	480.7	5.4	2.5	1.7
50°	585.4	579.5	554.8	557.7	467.3	456.8	4.2	1.7	0.8
52.5°	564.4	557.3	532.2	518.8	442.2	432.5	3.3	0.8	0.4
55°	542.2	534.3	509.2	484.9	415.8	404.9	2.5	0.8	0.4
57.5°	517.5	508.7	484.9	452.6	387.7	273.8	1.7	0.8	0.4
60°	491.6	482.8	458.9	422.5	359.3	18.8	0.8	0.8	0.4
62.5°	463.9	454.7	431.7	391.9	328.7	15.5	0.8	0.8	0.8
65°	435.0	424.2	403.2	360.5	298.1	13.0	0.8	0.8	0.8
67.5°	406.2	392.3	372.7	328.3	266.7	10.9	0.8	0.8	0.8
70°	375.6	360.5	340.0	295.6	233.6	8.8	0.8	0.8	0.8
72.5°	344.2	329.5	307.3	262.5	202.7	6.7	0.8	0.8	0.8
75°	311.1	297.7	273.8	229.5	169.2	5.0	1.7	0.8	0.8
77.5°	276.8	266.3	239.5	195.5	136.5	3.3	1.7	0.8	0.8
80°	244.9	233.2	205.6	161.2	105.1	2.5	1.7	1.3	0.8
82.5°	212.3	201.8	174.2	129.8	75.4	2.1	1.7	1.3	0.8
85°	183.0	172.9	144.9	101.3	49.4	1.7	1.3	1.3	0.8
87.5°	157.0	147.8	120.2	74.1	28.1	1.3	1.3	1.3	0.8
90°	0.0	0.0	0.0	0.0	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	24.78	26.39	25.14	26.71	27.02	20.21	21.82	20.58	22.14	22.45
	3H	27.22	28.69	27.60	29.01	29.38	20.85	22.32	21.23	22.64	23.00
	4H	28.35	29.73	28.75	30.08	30.45	21.00	22.38	21.39	22.73	23.10
	6H	29.44	30.73	29.85	31.09	31.48	21.04	22.32	21.45	22.69	23.08
	8H	29.97	31.20	30.40	31.59	31.99	21.03	22.25	21.45	22.64	23.04
	12H	30.54	31.72	30.97	32.10	32.53	21.01	22.19	21.44	22.57	23.00
4H	2H	25.43	26.82	25.83	27.16	27.54	21.34	22.72	21.74	23.07	23.44
	3H	28.12	29.29	28.53	29.69	30.09	22.68	23.85	23.09	24.24	24.64
	4H	29.42	30.48	29.85	30.89	31.33	23.22	24.28	23.65	24.69	25.13
	6H	30.70	31.63	31.15	32.07	32.53	23.49	24.42	23.94	24.86	25.32
	8H	31.33	32.20	31.79	32.65	33.11	23.53	24.40	23.99	24.85	25.31
	12H	32.01	32.81	32.49	33.28	33.75	23.54	24.33	24.02	24.80	25.27
8H	4H	29.78	30.66	30.24	31.10	31.57	24.16	25.04	24.62	25.48	25.94
	6H	31.26	32.00	31.76	32.49	32.96	24.75	25.49	25.24	25.98	26.45
	8H	32.05	32.71	32.56	33.22	33.70	24.93	25.59	25.44	26.10	26.58
	12H	32.94	33.53	33.44	34.02	34.58	25.03	25.62	25.54	26.11	26.67
12H	4H	29.82	30.61	30.30	31.09	31.56	24.38	25.17	24.86	25.65	26.11
	6H	31.35	32.02	31.86	32.52	33.01	25.10	25.77	25.61	26.27	26.76
	8H	32.23	32.82	32.74	33.31	33.87	25.41	26.01	25.92	26.50	27.05