

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: P892612

Luminaire Tested: 2MB-3SL-ASMF-UNV-L950

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892612
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-185-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-3SL-ASMF-UNV-L950
Description: 3000 Lumen 2FT MICROBAY LINEAR BAY with FROSTED ASYMMETRIC LENS, 90CRI, 5000K CCT
Light Source: -
Ballast/Driver: -

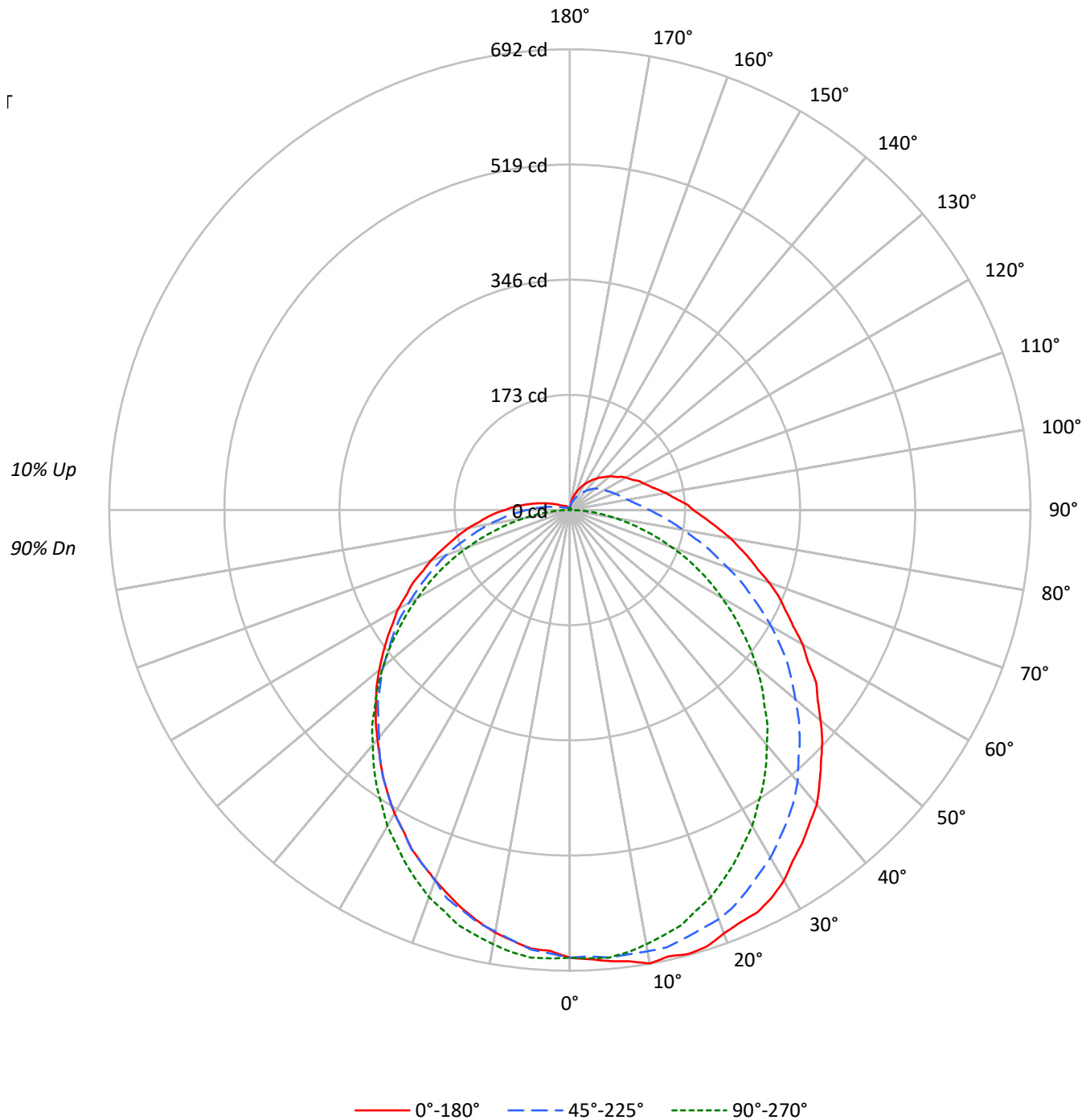
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2312.0 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.21 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 1.98' x H: 0.12')
CIE Type: Direct

Input Watts (W): 21
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 8
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	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	93	93	90
1	105	99	95	90	101	96	92	88	90	87	83	85	82	79	79	77	75	75	75	72
2	95	86	79	72	91	83	76	71	78	72	68	73	69	65	69	65	62	62	62	59
3	86	75	66	60	83	73	65	58	68	62	56	64	59	54	60	56	52	52	52	49
4	79	66	57	50	76	64	56	49	61	53	48	57	51	46	54	49	44	44	44	42
5	72	59	50	43	69	57	49	42	54	47	41	51	45	40	48	43	38	38	38	36
6	67	53	44	37	64	52	43	37	49	41	36	46	40	35	44	38	34	34	34	31
7	62	48	39	33	59	47	38	32	44	37	32	42	36	31	40	34	30	30	30	28
8	57	44	35	29	55	43	35	29	41	33	28	39	32	27	37	31	27	27	27	25
9	54	40	32	26	52	39	31	26	37	30	25	36	29	25	34	28	24	24	24	22
10	50	37	29	24	49	36	29	23	34	28	23	33	27	22	31	26	22	22	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	13770	13770	13770	13770	13770
5°	13904	13427	13322	13192	13520
10°	14222	13122	12718	12533	13255
15°	14390	12824	12153	11988	12939
20°	14416	12536	11510	11344	12597
25°	14632	12111	10833	10807	12330
30°	14673	11705	10191	10229	12011
35°	14586	11262	9514	9672	11711
40°	14655	10806	8821	9050	11410
45°	14542	10270	8137	8573	11219
50°	14573	9723	7480	8031	11068
55°	14798	9241	6725	7488	10957
60°	14917	8650	5954	6912	11008
65°	15268	8012	5173	6338	11133
70°	16259	7401	4240	5790	11336
75°	17843	6947	3244	5157	11838
80°	21279	6503	2173	4596	13344
85°	28952	6362	1090	4014	17014

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 90°
 Luminance: 60071 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.8	2.8
10°-20°	182.9	7.9
20°-30°	275.7	11.9
30°-40°	331.0	14.3
40°-50°	344.6	14.9
50°-60°	319.5	13.8
60°-70°	263.1	11.4
70°-80°	189.8	8.2
80°-90°	120.5	5.2
90°-100°	74.3	3.2
100°-110°	49.5	2.1
110°-120°	35.3	1.5
120°-130°	25.8	1.1
130°-140°	17.8	0.8
140°-150°	10.8	0.5
150°-160°	5.4	0.2
160°-170°	2.0	0.1
170°-180°	0.3	0.0
0°-30°	522.4	22.6
0°-40°	853.4	36.9
0°-60°	1517.5	65.6
0°-90°	2090.8	90.4
90°-120°	159.1	6.9
90°-150°	213.5	9.2
90°-180°	221.0	9.6
0°-180°	2312.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	672	672	672	672	672	
5°	680	675	675	663	661	65
15°	690	666	646	623	621	195
25°	667	630	585	562	562	307
35°	609	570	506	489	489	382
45°	534	488	413	408	412	413
55°	452	398	315	323	335	401
65°	358	299	214	237	261	356
75°	279	212	113	157	185	295
85°	212	144	30	91	125	180
90°	185	120	3	65	97	102
95°	165	101	2	43	75	131
105°	129	79	2	18	39	138
115°	106	66	2	8	19	106
125°	86	55	2	7	11	79
135°	69	44	2	5	8	54
145°	53	31	2	4	6	34
155°	36	20	3	2	4	17
165°	21	12	3	2	2	6
175°	3	5	3	1	0	1
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	672.5	672.5	672.5	672.5	672.5	672.5	672.5	672.5	672.5
2.5°	675.2	677.2	670.8	674.8	674.1	674.8	666.7	673.5	663.0
5°	680.2	681.2	674.8	677.2	674.8	669.1	663.0	660.7	661.4
7.5°	683.6	688.9	673.1	673.8	669.8	663.7	652.3	654.3	653.0
10°	691.6	685.6	673.1	670.1	662.4	656.0	642.9	643.9	644.6
12.5°	686.6	685.2	672.8	661.7	654.0	648.6	635.1	631.8	633.5
15°	690.3	684.6	666.1	657.3	645.6	636.1	622.7	620.3	620.7
17.5°	686.9	682.2	659.3	647.2	630.8	625.1	612.3	608.2	606.2
20°	676.8	674.5	654.3	633.5	618.7	607.6	592.1	589.7	591.4
22.5°	670.1	664.4	644.2	623.4	601.9	592.1	576.6	576.3	576.6
25°	666.7	659.3	630.4	608.6	584.7	576.0	562.5	557.5	561.8
27.5°	656.7	649.9	616.0	592.1	565.5	553.8	542.7	541.7	542.3
30°	643.2	630.1	602.9	573.6	548.1	536.0	526.9	520.1	526.5
32.5°	624.0	616.6	585.7	553.8	525.5	517.1	508.0	507.4	507.4
35°	609.3	603.9	569.6	536.3	506.0	494.6	489.2	486.9	489.2
37.5°	592.1	584.0	552.4	515.1	484.2	474.4	469.0	467.0	468.7
40°	577.3	562.5	532.3	493.3	460.3	451.6	445.8	447.9	449.5
42.5°	555.5	547.0	508.4	471.1	439.8	430.4	425.7	427.3	431.4
45°	533.9	526.2	488.5	447.9	413.2	408.2	407.8	406.8	411.9
47.5°	514.4	503.3	466.7	425.0	391.0	385.3	386.0	389.4	393.7
50°	491.9	478.8	442.5	400.5	366.5	362.8	365.5	367.8	373.6
52.5°	469.4	459.0	420.3	377.3	341.6	338.9	342.6	350.4	353.7
55°	451.9	433.1	398.4	350.0	315.0	315.4	322.8	327.2	334.6
57.5°	424.0	409.9	373.6	325.8	290.2	292.5	302.6	310.0	314.7
60°	404.1	386.3	349.3	299.9	263.9	267.6	279.1	290.2	298.2
62.5°	378.6	363.1	324.1	274.4	239.7	245.1	257.9	271.0	276.7
65°	357.8	340.3	299.2	248.8	214.5	220.9	236.7	251.5	260.9
67.5°	339.9	321.8	277.1	225.3	189.0	198.4	216.9	231.3	238.7
70°	318.7	297.6	251.8	199.0	162.4	173.5	197.0	213.8	222.2
72.5°	296.2	279.1	230.0	174.8	137.9	151.3	177.2	194.7	202.7
75°	278.7	259.6	211.5	150.6	113.0	129.1	157.0	176.9	184.9
77.5°	260.9	243.4	190.6	128.4	90.8	108.9	139.2	161.1	169.5
80°	245.1	224.9	173.2	110.3	67.6	89.1	122.4	143.9	153.7
82.5°	227.6	210.1	158.0	91.1	48.1	70.9	105.9	129.4	137.5
85°	212.2	194.0	143.9	76.0	29.6	54.8	90.8	115.0	124.7
87.5°	198.0	182.9	130.8	64.6	14.8	41.7	76.3	100.9	112.0
90°	185.3	168.1	119.7	54.1	2.7	30.3	64.6	88.8	97.2
92.5°	177.2	156.7	110.6	47.4	1.7	21.5	53.8	77.7	87.4
95°	165.1	146.9	101.2	42.4	1.7	14.5	43.4	66.6	75.0
97.5°	154.7	137.9	94.5	39.3	1.3	9.8	35.6	55.8	64.6
100°	146.6	130.8	88.4	36.6	1.7	7.1	28.2	47.4	55.1
102.5°	137.5	123.1	83.7	35.0	1.7	5.0	22.2	40.0	47.1
105°	129.4	116.7	79.4	33.3	1.7	4.4	17.8	33.0	39.3
107.5°	123.4	109.9	75.7	32.3	1.7	4.4	14.1	26.9	32.3
110°	117.3	104.6	72.0	31.3	1.7	4.0	11.1	22.2	26.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	113.3	99.5	68.6	30.3	2.0	4.0	9.1	18.5	22.2
115°	106.2	95.2	65.6	29.9	2.0	3.7	8.4	15.1	18.8
117.5°	101.2	91.1	62.5	28.9	2.0	3.7	8.1	12.4	15.1
120°	97.5	86.4	59.8	27.9	2.0	3.4	7.4	11.1	12.8
122.5°	92.8	82.0	57.5	27.2	2.0	3.4	7.1	10.4	11.4
125°	86.4	78.0	54.8	25.9	2.4	3.4	6.7	9.8	10.8
127.5°	82.4	74.3	52.8	24.2	2.4	3.0	6.4	9.1	10.1
130°	79.0	70.3	50.4	22.5	2.4	3.0	6.1	8.4	9.4
132.5°	74.0	66.2	47.1	21.2	2.4	2.7	5.4	7.7	8.7
135°	69.3	62.9	43.7	19.8	2.4	2.7	5.0	7.4	8.1
137.5°	66.2	59.5	40.7	18.5	2.4	2.4	4.7	6.7	7.4
140°	61.2	55.8	37.3	17.1	2.4	2.4	4.4	6.4	6.7
142.5°	57.5	52.1	34.3	15.8	2.4	2.4	4.0	5.7	6.4
145°	53.1	48.4	30.9	14.5	2.4	2.0	3.7	5.4	5.7
147.5°	49.1	44.0	28.2	13.4	2.4	2.0	3.4	4.7	5.0
150°	45.1	39.7	25.6	12.4	2.4	2.0	3.0	4.0	4.7
152.5°	40.7	34.3	22.9	11.4	2.4	2.0	2.7	3.7	4.0
155°	36.3	29.9	20.5	10.4	2.7	2.0	2.4	3.0	3.7
157.5°	32.6	25.9	18.2	9.4	2.7	1.7	2.4	2.7	3.0
160°	28.2	22.2	16.1	8.4	2.7	1.7	2.0	2.4	2.7
162.5°	24.9	18.5	14.1	7.7	2.7	1.7	2.0	2.0	2.4
165°	21.2	15.5	11.8	7.1	2.7	1.7	1.7	1.7	2.0
167.5°	17.1	12.1	9.8	6.4	2.7	1.7	1.7	1.3	1.7
170°	12.8	9.1	8.1	5.7	2.7	1.7	1.3	1.0	1.3
172.5°	5.7	7.1	6.4	5.0	3.0	1.7	1.3	1.0	0.7
175°	3.0	5.0	5.0	4.4	3.0	1.7	1.3	1.0	0.3
177.5°	2.4	3.0	3.7	3.7	3.0	2.0	1.3	0.7	0.3
180°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0



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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	19.44	20.92	19.95	21.42	21.97	18.32	19.80	18.83	20.30	20.84
	3H	21.53	22.88	22.05	23.39	23.98	20.16	21.50	20.68	22.02	22.60
	4H	22.48	23.76	23.02	24.28	24.88	20.88	22.16	21.42	22.68	23.28
	6H	23.40	24.59	23.95	25.13	25.74	21.48	22.67	22.03	23.21	23.82
	8H	23.83	24.97	24.39	25.53	26.15	21.71	22.85	22.28	23.42	24.03
	12H	24.25	25.34	24.82	25.90	26.55	21.92	23.01	22.49	23.57	24.21
4H	2H	19.93	21.20	20.47	21.73	22.33	18.89	20.17	19.43	20.69	21.29
	3H	22.24	23.33	22.79	23.90	24.52	20.92	22.00	21.47	22.57	23.19
	4H	23.36	24.35	23.93	24.93	25.58	21.75	22.74	22.32	23.32	23.97
	6H	24.46	25.34	25.06	25.95	26.61	22.47	23.35	23.06	23.95	24.61
	8H	24.99	25.82	25.59	26.42	27.10	22.76	23.59	23.36	24.19	24.87
	12H	25.52	26.27	26.14	26.90	27.58	23.03	23.78	23.65	24.41	25.09
8H	4H	23.60	24.43	24.20	25.03	25.71	22.09	22.92	22.69	23.52	24.20
	6H	24.89	25.59	25.52	26.23	26.91	22.94	23.65	23.57	24.29	24.97
	8H	25.56	26.19	26.20	26.84	27.54	23.32	23.95	23.96	24.61	25.30
	12H	26.26	26.83	26.91	27.47	28.23	23.68	24.24	24.32	24.89	25.64
12H	4H	23.62	24.37	24.24	25.00	25.68	22.16	22.91	22.78	23.54	24.22
	6H	24.94	25.57	25.58	26.23	26.92	23.06	23.69	23.70	24.34	25.04
	8H	25.68	26.25	26.32	26.89	27.65	23.50	24.06	24.14	24.70	25.46