

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: P892497

Luminaire Tested: 2MB-2SL-ASMF-UNV-L930

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892497
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-2SL-ASMF-UNV-L930
Description: 2000 Lumen 2FT MICROBAY LINEAR BAY with FROSTED ASYMMETRIC LENS, 90CRI, 3000K CCT
Light Source: -
Ballast/Driver: -

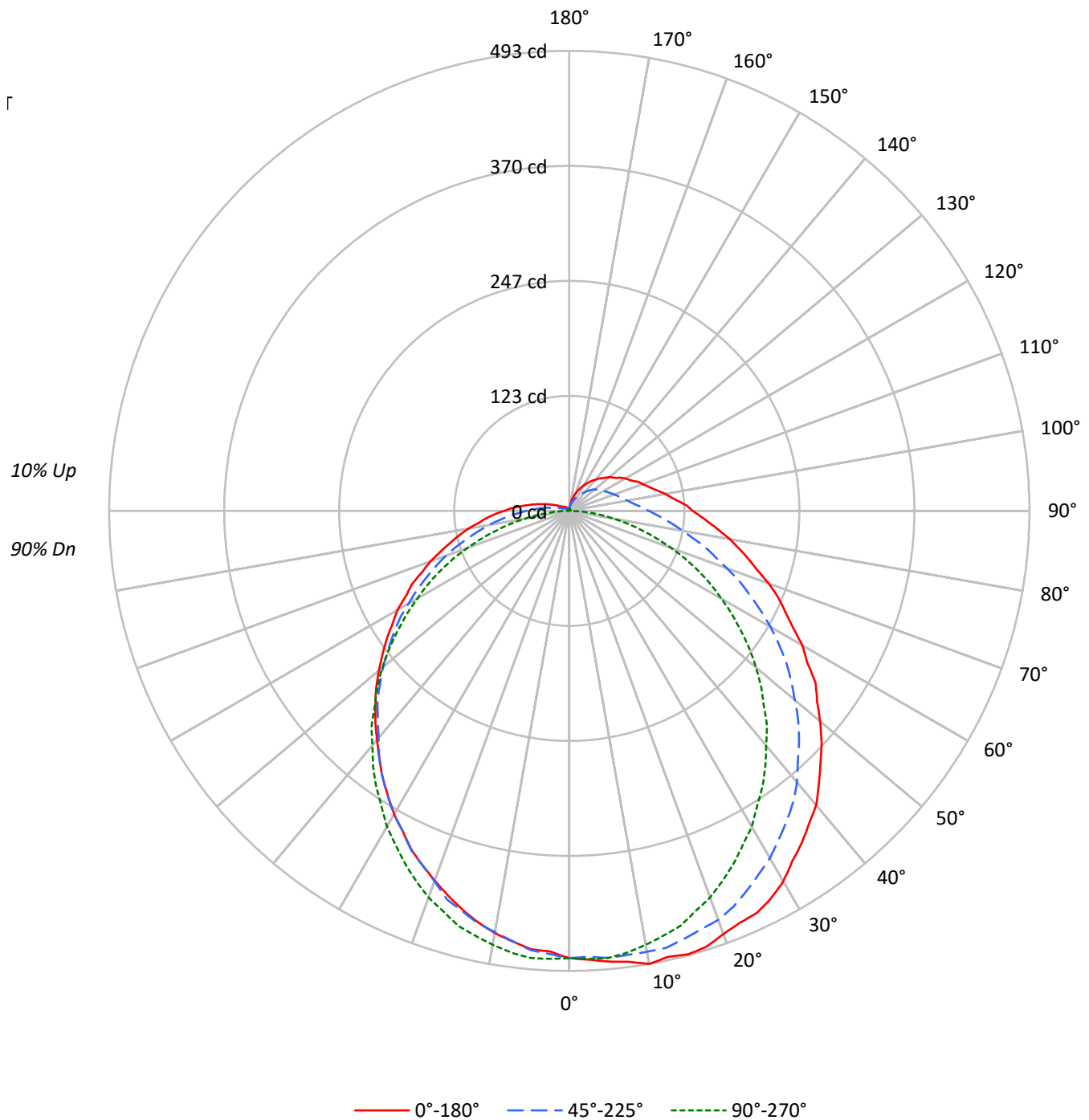
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1648.0 lumens
Efficiency: N/A
Efficacy: 110.6 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): 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	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	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	75	72
2	95	86	79	72	91	83	76	71	78	72	68	73	69	65	69	65	62	62	62	62	59
3	86	75	66	60	83	73	65	58	68	62	56	64	59	54	60	56	52	52	52	52	49
4	79	66	57	50	76	64	56	49	61	53	48	57	51	46	54	49	44	44	44	44	42
5	72	59	50	43	69	57	49	42	54	47	41	51	45	40	48	43	38	38	38	38	36
6	67	53	44	37	64	52	43	37	49	41	36	46	40	35	44	38	34	34	34	34	31
7	62	48	39	33	59	47	38	32	44	37	32	42	36	31	40	34	30	30	30	30	28
8	57	44	35	29	55	43	35	29	41	33	28	39	32	27	37	31	27	27	27	27	25
9	54	40	32	26	52	39	31	26	37	30	25	36	29	25	34	28	24	24	24	24	22
10	50	37	29	24	49	36	29	23	34	28	23	33	27	22	31	26	22	22	22	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	9814	9814	9814	9814	9814
5°	9910	9571	9496	9404	9636
10°	10138	9354	9064	8933	9447
15°	10256	9141	8663	8546	9222
20°	10276	8936	8204	8087	8980
25°	10431	8634	7722	7704	8790
30°	10459	8342	7264	7292	8561
35°	10396	8027	6782	6894	8347
40°	10446	7702	6287	6452	8133
45°	10367	7320	5801	6112	7997
50°	10387	6930	5331	5724	7889
55°	10547	6588	4795	5338	7810
60°	10635	6166	4244	4926	7848
65°	10881	5712	3687	4517	7937
70°	11591	5276	3024	4127	8081
75°	12721	4953	2311	3676	8438
80°	15167	4633	1549	3274	9507
85°	20629	4536	777	2861	12129

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 90°
 Luminance: 42825 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.5	2.8
10°-20°	130.3	7.9
20°-30°	196.6	11.9
30°-40°	235.9	14.3
40°-50°	245.7	14.9
50°-60°	227.7	13.8
60°-70°	187.5	11.4
70°-80°	135.3	8.2
80°-90°	85.9	5.2
90°-100°	52.9	3.2
100°-110°	35.3	2.1
110°-120°	25.1	1.5
120°-130°	18.4	1.1
130°-140°	12.7	0.8
140°-150°	7.7	0.5
150°-160°	3.8	0.2
160°-170°	1.4	0.1
170°-180°	0.2	0.0
0°-30°	372.4	22.6
0°-40°	608.3	36.9
0°-60°	1081.7	65.6
0°-90°	1490.4	90.4
90°-120°	113.4	6.9
90°-150°	152.2	9.2
90°-180°	158.0	9.6
0°-180°	1648.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	479	479	479	479	479	
5°	485	481	481	473	471	46
15°	492	475	460	444	442	139
25°	475	449	417	401	400	219
35°	434	406	361	349	349	272
45°	381	348	295	291	294	294
55°	322	284	225	230	238	286
65°	255	213	153	169	186	254
75°	199	151	80	112	132	211
85°	151	103	21	65	89	128
90°	132	85	2	46	69	73
95°	118	72	1	31	53	94
105°	92	57	1	13	28	99
115°	76	47	1	6	13	76
125°	62	39	2	5	8	56
135°	49	31	2	4	6	39
145°	38	22	2	3	4	24
155°	26	15	2	2	3	12
165°	15	8	2	1	1	4
175°	2	4	2	1	0	0
180°	1	1	1	1	1	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	479.3	479.3	479.3	479.3	479.3	479.3	479.3	479.3	479.3
2.5°	481.3	482.7	478.1	481.0	480.5	481.0	475.3	480.1	472.6
5°	484.8	485.6	481.0	482.7	481.0	476.9	472.6	470.9	471.4
7.5°	487.2	491.1	479.8	480.3	477.4	473.1	465.0	466.4	465.4
10°	493.0	488.7	479.8	477.7	472.1	467.6	458.2	459.0	459.4
12.5°	489.4	488.4	479.6	471.7	466.2	462.3	452.7	450.3	451.5
15°	492.0	488.0	474.8	468.5	460.2	453.4	443.9	442.2	442.4
17.5°	489.6	486.3	470.0	461.4	449.6	445.5	436.4	433.6	432.1
20°	482.4	480.8	466.4	451.5	441.0	433.1	422.1	420.4	421.6
22.5°	477.7	473.6	459.2	444.3	429.0	422.1	411.0	410.8	411.0
25°	475.3	470.0	449.4	433.8	416.8	410.5	401.0	397.4	400.5
27.5°	468.1	463.3	439.1	422.1	403.1	394.7	386.8	386.1	386.6
30°	458.5	449.1	429.7	408.9	390.7	382.0	375.6	370.8	375.3
32.5°	444.8	439.5	417.5	394.7	374.6	368.6	362.1	361.7	361.7
35°	434.3	430.4	406.0	382.3	360.7	352.5	348.7	347.0	348.7
37.5°	422.1	416.3	393.8	367.2	345.1	338.2	334.3	332.9	334.1
40°	411.5	401.0	379.4	351.6	328.1	321.9	317.8	319.2	320.4
42.5°	395.9	389.9	362.4	335.8	313.5	306.8	303.4	304.6	307.5
45°	380.6	375.1	348.2	319.2	294.6	291.0	290.7	290.0	293.6
47.5°	366.7	358.8	332.7	302.9	278.7	274.7	275.1	277.5	280.6
50°	350.6	341.3	315.4	285.4	261.2	258.6	260.5	262.2	266.3
52.5°	334.6	327.1	299.6	268.9	243.5	241.6	244.2	249.7	252.1
55°	322.1	308.7	284.0	249.5	224.6	224.8	230.1	233.2	238.5
57.5°	302.2	292.2	266.3	232.2	206.8	208.5	215.7	221.0	224.3
60°	288.1	275.4	249.0	213.8	188.1	190.8	198.9	206.8	212.6
62.5°	269.9	258.8	231.0	195.6	170.9	174.7	183.8	193.2	197.2
65°	255.0	242.5	213.3	177.4	152.9	157.5	168.7	179.3	186.0
67.5°	242.3	229.4	197.5	160.6	134.7	141.4	154.6	164.9	170.2
70°	227.2	212.1	179.5	141.9	115.8	123.7	140.4	152.4	158.4
72.5°	211.1	198.9	163.9	124.6	98.3	107.8	126.3	138.8	144.5
75°	198.7	185.0	150.8	107.4	80.5	92.0	111.9	126.1	131.8
77.5°	186.0	173.5	135.9	91.6	64.7	77.7	99.2	114.8	120.8
80°	174.7	160.3	123.4	78.6	48.2	63.5	87.2	102.6	109.5
82.5°	162.3	149.8	112.6	64.9	34.3	50.6	75.5	92.3	98.0
85°	151.2	138.3	102.6	54.2	21.1	39.1	64.7	82.0	88.9
87.5°	141.2	130.4	93.2	46.0	10.5	29.7	54.4	71.9	79.8
90°	132.1	119.8	85.3	38.6	1.9	21.6	46.0	63.3	69.3
92.5°	126.3	111.7	78.9	33.8	1.2	15.3	38.3	55.4	62.3
95°	117.7	104.7	72.1	30.2	1.2	10.3	30.9	47.5	53.4
97.5°	110.2	98.3	67.3	28.0	1.0	7.0	25.4	39.8	46.0
100°	104.5	93.2	63.0	26.1	1.2	5.0	20.1	33.8	39.3
102.5°	98.0	87.7	59.7	24.9	1.2	3.6	15.8	28.5	33.6
105°	92.3	83.2	56.6	23.7	1.2	3.1	12.7	23.5	28.0
107.5°	88.0	78.4	53.9	23.0	1.2	3.1	10.1	19.2	23.0
110°	83.6	74.5	51.3	22.3	1.2	2.9	7.9	15.8	19.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	80.8	70.9	48.9	21.6	1.4	2.9	6.5	13.2	15.8
115°	75.7	67.8	46.7	21.3	1.4	2.6	6.0	10.8	13.4
117.5°	72.1	64.9	44.6	20.6	1.4	2.6	5.8	8.9	10.8
120°	69.5	61.6	42.7	19.9	1.4	2.4	5.3	7.9	9.1
122.5°	66.1	58.5	41.0	19.4	1.4	2.4	5.0	7.4	8.1
125°	61.6	55.6	39.1	18.5	1.7	2.4	4.8	7.0	7.7
127.5°	58.7	53.0	37.6	17.3	1.7	2.2	4.6	6.5	7.2
130°	56.3	50.1	35.9	16.1	1.7	2.2	4.3	6.0	6.7
132.5°	52.7	47.2	33.6	15.1	1.7	1.9	3.8	5.5	6.2
135°	49.4	44.8	31.2	14.1	1.7	1.9	3.6	5.3	5.8
137.5°	47.2	42.4	29.0	13.2	1.7	1.7	3.4	4.8	5.3
140°	43.6	39.8	26.6	12.2	1.7	1.7	3.1	4.6	4.8
142.5°	41.0	37.1	24.4	11.3	1.7	1.7	2.9	4.1	4.6
145°	37.9	34.5	22.0	10.3	1.7	1.4	2.6	3.8	4.1
147.5°	35.0	31.4	20.1	9.6	1.7	1.4	2.4	3.4	3.6
150°	32.1	28.3	18.2	8.9	1.7	1.4	2.2	2.9	3.4
152.5°	29.0	24.4	16.3	8.1	1.7	1.4	1.9	2.6	2.9
155°	25.9	21.3	14.6	7.4	1.9	1.4	1.7	2.2	2.6
157.5°	23.2	18.5	12.9	6.7	1.9	1.2	1.7	1.9	2.2
160°	20.1	15.8	11.5	6.0	1.9	1.2	1.4	1.7	1.9
162.5°	17.7	13.2	10.1	5.5	1.9	1.2	1.4	1.4	1.7
165°	15.1	11.0	8.4	5.0	1.9	1.2	1.2	1.2	1.4
167.5°	12.2	8.6	7.0	4.6	1.9	1.2	1.2	1.0	1.2
170°	9.1	6.5	5.8	4.1	1.9	1.2	1.0	0.7	1.0
172.5°	4.1	5.0	4.6	3.6	2.2	1.2	1.0	0.7	0.5
175°	2.2	3.6	3.6	3.1	2.2	1.2	1.0	0.7	0.2
177.5°	1.7	2.2	2.6	2.6	2.2	1.4	1.0	0.5	0.2
180°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4



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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	18.27	19.75	18.77	20.25	20.79	17.14	18.62	17.65	19.12	19.67
	3H	20.36	21.70	20.88	22.22	22.80	18.98	20.33	19.50	20.84	21.42
	4H	21.30	22.58	21.84	23.11	23.70	19.70	20.98	20.24	21.51	22.10
	6H	22.22	23.41	22.78	23.95	24.56	20.30	21.49	20.86	22.03	22.64
	8H	22.65	23.79	23.22	24.36	24.97	20.54	21.68	21.10	22.24	22.86
	12H	23.08	24.17	23.65	24.73	25.37	20.74	21.83	21.31	22.39	23.04
4H	2H	18.75	20.03	19.29	20.55	21.15	17.71	18.99	18.25	19.52	20.11
	3H	21.07	22.15	21.62	22.72	23.34	19.74	20.83	20.29	21.40	22.02
	4H	22.18	23.18	22.75	23.75	24.40	20.57	21.57	21.14	22.14	22.79
	6H	23.29	24.17	23.88	24.77	25.43	21.29	22.17	21.89	22.78	23.44
	8H	23.82	24.64	24.41	25.25	25.92	21.59	22.41	22.18	23.02	23.69
	12H	24.35	25.10	24.97	25.73	26.41	21.85	22.60	22.47	23.23	23.91
8H	4H	22.43	23.25	23.03	23.86	24.53	20.92	21.74	21.51	22.34	23.02
	6H	23.71	24.41	24.34	25.06	25.74	21.77	22.47	22.40	23.11	23.79
	8H	24.38	25.01	25.02	25.67	26.36	22.15	22.78	22.79	23.43	24.12
	12H	25.09	25.65	25.73	26.29	27.05	22.50	23.07	23.15	23.71	24.47
12H	4H	22.44	23.19	23.06	23.82	24.51	20.98	21.73	21.60	22.36	23.04
	6H	23.76	24.40	24.40	25.05	25.74	21.88	22.51	22.52	23.17	23.86
	8H	24.51	25.07	25.15	25.71	26.47	22.32	22.89	22.97	23.53	24.29