

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: P892515

Luminaire Tested: 2MB-2SL-ASYMR-UNV-L940

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892515
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-L940
Description: 2000 Lumen 2FT MICROBAY LINEAR BAY with ASYMMERIC REFLECTOR, 90CRI, 4000K CCT
Light Source: -
Ballast/Driver: -

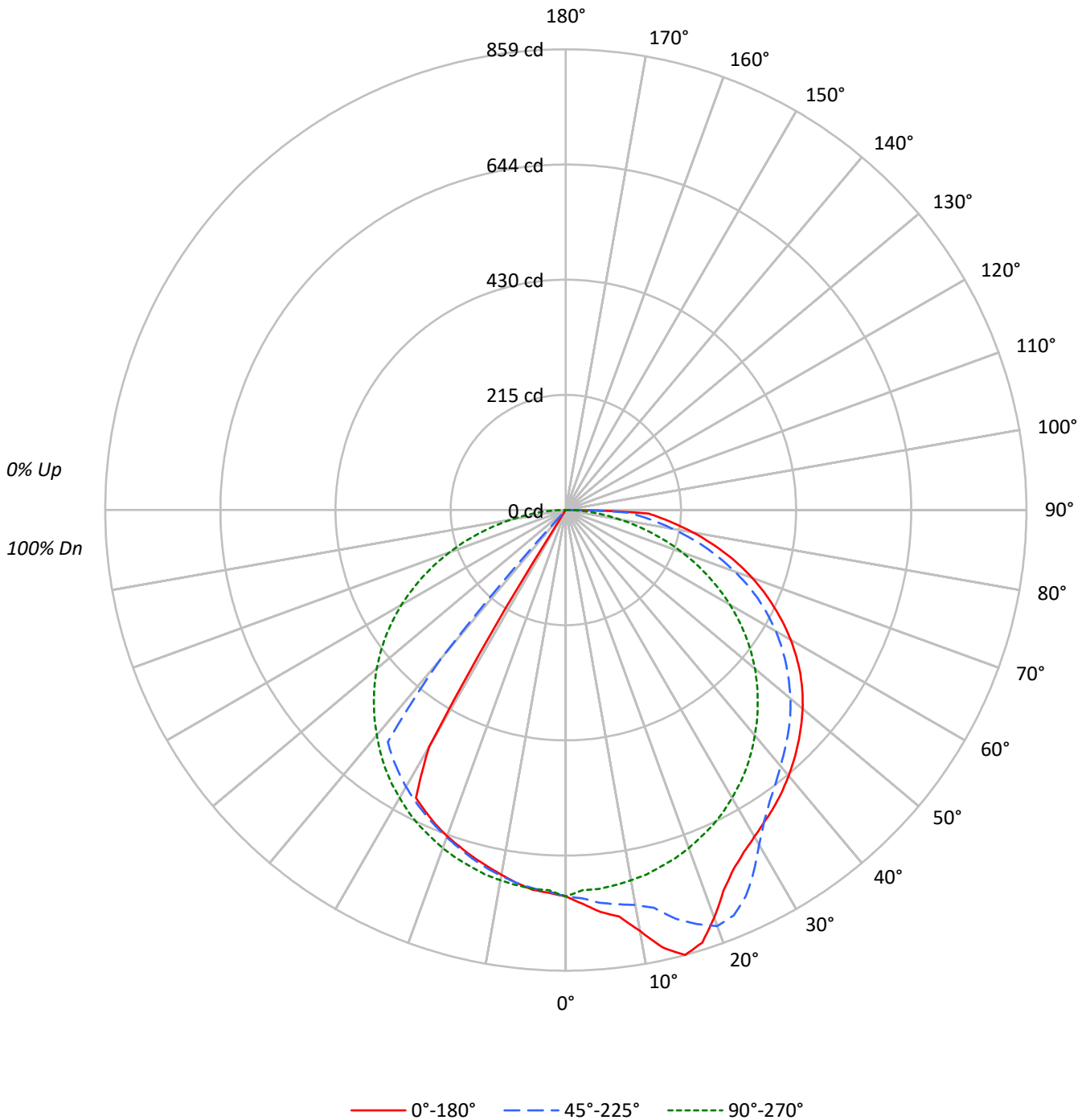
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1949.0 lumens
Efficiency: N/A
Efficacy: 130.8 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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	85	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	71	71	69
3	90	79	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	61	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	53	53	50
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	46	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	41	41	39
7	66	52	44	37	64	51	43	37	50	42	37	48	42	37	47	41	36	36	36	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	33	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	30	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	32	27	27	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	18808	18808	18808	18808	18808
5°	19721	19268	18586	18555	18621
10°	21132	19819	18584	18364	18308
15°	23218	21320	18590	18188	18099
20°	22480	22938	18637	18043	17984
25°	21297	22890	18684	17981	17852
30°	21205	21730	18682	17961	15372
35°	21565	21131	18712	17963	210
40°	22034	21233	18687	12389	140
45°	22637	21662	18690	229	92
50°	23428	22205	18700	167	32
55°	24320	22836	18649	114	18
60°	25293	23612	18484	42	21
65°	26484	24544	18150	49	49
70°	28251	25572	17572	61	61
75°	30918	27216	16816	171	81
80°	36294	30461	15576	256	120
85°	54010	42776	14588	359	240

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 92594 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.0	3.5
10°-20°	206.1	10.6
20°-30°	316.8	16.3
30°-40°	339.5	17.4
40°-50°	308.4	15.8
50°-60°	281.3	14.4
60°-70°	209.2	10.7
70°-80°	147.3	7.6
80°-90°	71.3	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°	591.9	30.4
0°-40°	931.5	47.8
0°-60°	1521.1	78.0
0°-90°	1949.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1949.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	720	720	720	720	720	
5°	752	735	709	708	710	73
15°	859	789	688	673	670	237
25°	739	795	649	624	620	344
35°	677	663	587	564	7	424
45°	613	587	506	6	2	474
55°	534	502	410	2	0	477
65°	429	397	294	1	1	424
75°	306	270	167	2	1	323
85°	180	143	49	1	1	181
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°	720.4	720.4	720.4	720.4	720.4	720.4	720.4	720.4	720.4
2.5°	735.2	727.0	724.9	730.7	709.6	723.7	712.1	714.6	714.6
5°	752.5	741.0	735.2	733.6	709.2	718.7	708.0	708.0	710.5
7.5°	764.5	751.7	741.4	737.3	705.5	713.8	701.4	701.4	701.4
10°	797.1	773.2	747.6	740.2	701.0	707.2	692.7	693.5	690.6
12.5°	835.5	814.0	759.5	738.9	696.0	698.9	683.6	683.2	679.9
15°	859.0	842.9	788.8	737.3	687.8	690.2	672.9	671.7	669.6
17.5°	845.8	843.3	809.1	736.0	680.3	678.3	660.9	659.7	658.1
20°	809.1	815.2	825.6	733.6	670.8	666.7	649.4	648.6	647.3
22.5°	768.2	774.4	818.1	737.7	659.3	654.3	637.0	636.2	634.5
25°	739.3	739.3	794.6	747.6	648.6	639.5	624.2	623.0	619.7
27.5°	719.1	715.4	759.5	758.7	635.0	624.6	610.6	609.4	605.2
30°	703.4	697.3	720.8	764.1	619.7	608.5	595.8	594.5	509.9
32.5°	689.4	682.8	688.2	768.6	604.4	591.2	580.1	413.8	18.2
35°	676.6	669.2	663.0	765.3	587.1	573.9	563.6	12.0	6.6
37.5°	662.2	656.4	642.4	748.0	568.5	555.3	545.4	6.6	5.8
40°	646.5	641.1	623.0	722.4	548.3	537.2	363.5	5.8	4.1
42.5°	630.4	626.3	604.8	685.3	528.1	517.0	11.6	4.5	3.3
45°	613.1	609.4	586.7	640.3	506.2	495.9	6.2	3.3	2.5
47.5°	595.3	590.0	567.7	592.0	483.9	473.6	5.4	2.5	1.7
50°	576.8	571.0	546.7	549.5	460.4	450.1	4.1	1.7	0.8
52.5°	556.2	549.1	524.4	511.2	435.7	426.2	3.3	0.8	0.4
55°	534.3	526.4	501.7	477.8	409.7	399.0	2.5	0.8	0.4
57.5°	509.9	501.3	477.8	446.0	382.0	269.8	1.7	0.8	0.4
60°	484.4	475.7	452.2	416.3	354.0	18.6	0.8	0.8	0.4
62.5°	457.1	448.1	425.4	386.2	323.9	15.3	0.8	0.8	0.8
65°	428.7	417.9	397.3	355.2	293.8	12.8	0.8	0.8	0.8
67.5°	400.2	386.6	367.2	323.5	262.8	10.7	0.8	0.8	0.8
70°	370.1	355.2	335.0	291.3	230.2	8.7	0.8	0.8	0.8
72.5°	339.1	324.7	302.8	258.7	199.7	6.6	0.8	0.8	0.8
75°	306.5	293.3	269.8	226.1	166.7	5.0	1.7	0.8	0.8
77.5°	272.7	262.4	236.0	192.7	134.5	3.3	1.7	0.8	0.8
80°	241.4	229.8	202.6	158.8	103.6	2.5	1.7	1.2	0.8
82.5°	209.2	198.9	171.6	127.9	74.3	2.1	1.7	1.2	0.8
85°	180.3	170.4	142.8	99.8	48.7	1.7	1.2	1.2	0.8
87.5°	154.7	145.6	118.4	73.0	27.6	1.2	1.2	1.2	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	24.73	26.34	25.09	26.65	26.97	20.16	21.77	20.52	22.09	22.40
	3H	27.17	28.64	27.55	28.96	29.32	20.80	22.27	21.18	22.59	22.95
	4H	28.30	29.68	28.70	30.03	30.40	20.95	22.33	21.34	22.68	23.05
	6H	29.39	30.67	29.80	31.04	31.43	20.99	22.27	21.40	22.64	23.03
	8H	29.92	31.15	30.34	31.54	31.94	20.97	22.20	21.40	22.59	22.99
	12H	30.49	31.67	30.92	32.05	32.48	20.96	22.13	21.39	22.52	22.94
4H	2H	25.38	26.77	25.78	27.11	27.49	21.29	22.67	21.68	23.02	23.39
	3H	28.07	29.24	28.48	29.64	30.04	22.63	23.80	23.04	24.19	24.59
	4H	29.37	30.43	29.80	30.84	31.28	23.16	24.23	23.59	24.64	25.07
	6H	30.65	31.58	31.10	32.02	32.48	23.44	24.37	23.89	24.81	25.27
	8H	31.28	32.15	31.74	32.60	33.06	23.48	24.35	23.94	24.80	25.26
	12H	31.96	32.75	32.44	33.23	33.70	23.49	24.28	23.97	24.75	25.22
8H	4H	29.73	30.61	30.19	31.05	31.51	24.11	24.99	24.57	25.43	25.89
	6H	31.21	31.95	31.71	32.44	32.91	24.70	25.44	25.19	25.92	26.40
	8H	32.00	32.66	32.50	33.17	33.65	24.88	25.54	25.39	26.05	26.53
	12H	32.89	33.48	33.39	33.97	34.53	24.98	25.57	25.49	26.06	26.62
12H	4H	29.77	30.56	30.25	31.04	31.51	24.33	25.12	24.81	25.59	26.06
	6H	31.30	31.97	31.81	32.47	32.96	25.05	25.72	25.56	26.22	26.71
	8H	32.18	32.77	32.69	33.26	33.82	25.36	25.95	25.87	26.44	27.00