

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: P892512

Luminaire Tested: 2MB-2SL-ASYMR-UNV-L850

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892512
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-L850
Description: 2000 Lumen 2FT MICROBAY LINEAR BAY with ASYMMERIC REFLECTOR, 80CRI, 5000K CCT
Light Source: -
Ballast/Driver: -

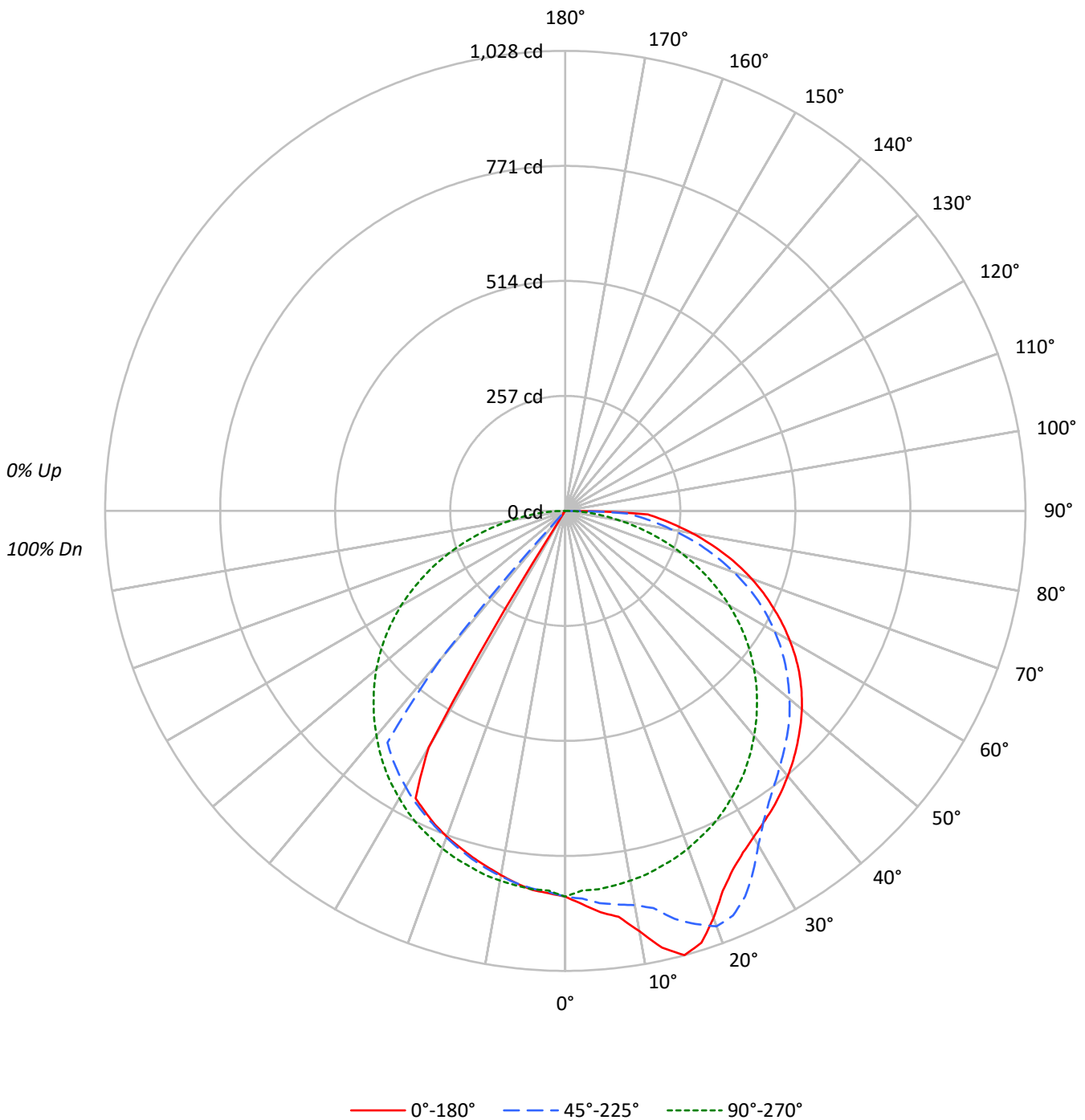
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2332.0 lumens
Efficiency: N/A
Efficacy: 156.5 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 (Ain): 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	100	100	100
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83	83	83	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69	69	69	69
3	90	79	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59	59	59	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	50	50	50	50
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44	44	44	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39	39	39	39
7	66	52	44	37	64	51	43	37	50	42	37	48	42	37	47	41	36	35	35	35	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31	31	31	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28	28	28	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	32	27	26	26	26	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	22502	22502	22502	22502	22502
5°	23597	23055	22240	22201	22279
10°	25283	23714	22235	21972	21908
15°	27780	25513	22242	21761	21656
20°	26894	27445	22302	21588	21518
25°	25483	27390	22354	21516	21360
30°	25375	25999	22354	21489	18396
35°	25804	25284	22390	21491	252
40°	26362	25404	22361	14822	167
45°	27086	25919	22364	273	111
50°	28030	26567	22376	199	41
55°	29100	27324	22313	137	23
60°	30259	28249	22119	52	26
65°	31685	29369	21714	62	62
70°	33801	30595	21030	76	76
75°	37000	32562	20114	202	101
80°	43421	36445	18628	301	150
85°	64614	51164	17464	449	300

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 110790 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.6	3.5
10°-20°	246.6	10.6
20°-30°	379.1	16.3
30°-40°	406.3	17.4
40°-50°	369.0	15.8
50°-60°	336.5	14.4
60°-70°	250.4	10.7
70°-80°	176.2	7.6
80°-90°	85.4	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°	708.3	30.4
0°-40°	1114.5	47.8
0°-60°	1820.0	78.0
0°-90°	2332.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2332.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	862	862	862	862	862	
5°	900	880	849	847	850	87
15°	1028	944	823	805	801	284
25°	885	951	776	747	742	411
35°	810	793	702	674	8	507
45°	734	702	606	7	3	567
55°	639	600	490	3	0	571
65°	513	475	352	1	1	508
75°	367	323	199	2	1	387
85°	216	171	58	2	1	217
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°	861.9	861.9	861.9	861.9	861.9	861.9	861.9	861.9	861.9
2.5°	879.7	869.8	867.3	874.3	849.1	865.9	852.0	855.0	855.0
5°	900.4	886.6	879.7	877.7	848.6	859.9	847.1	847.1	850.1
7.5°	914.7	899.4	887.1	882.2	844.1	854.0	839.2	839.2	839.2
10°	953.7	925.1	894.5	885.6	838.7	846.1	828.8	829.8	826.4
12.5°	999.6	974.0	908.8	884.1	832.8	836.2	818.0	817.5	813.5
15°	1027.8	1008.5	943.9	882.2	822.9	825.9	805.1	803.7	801.2
17.5°	1012.0	1009.0	968.0	880.7	814.0	811.6	790.8	789.3	787.4
20°	968.0	975.5	987.8	877.7	802.7	797.7	777.0	776.0	774.5
22.5°	919.2	926.6	978.9	882.6	788.9	782.9	762.2	761.2	759.2
25°	884.6	884.6	950.8	894.5	776.0	765.2	746.9	745.4	741.5
27.5°	860.4	856.0	908.8	907.8	759.7	747.4	730.6	729.1	724.2
30°	841.7	834.3	862.4	914.2	741.5	728.1	712.8	711.3	610.2
32.5°	824.9	817.0	823.4	919.7	723.2	707.4	694.1	495.1	21.7
35°	809.6	800.7	793.3	915.7	702.5	686.7	674.3	14.3	7.9
37.5°	792.3	785.4	768.6	895.0	680.2	664.5	652.6	7.9	6.9
40°	773.5	767.1	745.4	864.4	656.1	642.7	434.9	6.9	4.9
42.5°	754.3	749.4	723.7	820.0	631.9	618.5	13.8	5.4	3.9
45°	733.6	729.1	702.0	766.1	605.7	593.4	7.4	3.9	3.0
47.5°	712.3	705.9	679.3	708.4	579.1	566.7	6.4	3.0	2.0
50°	690.1	683.2	654.1	657.5	550.9	538.6	4.9	2.0	1.0
52.5°	665.4	657.0	627.4	611.6	521.3	509.9	3.9	1.0	0.5
55°	639.3	629.9	600.3	571.6	490.2	477.4	3.0	1.0	0.5
57.5°	610.2	599.8	571.6	533.6	457.1	322.8	2.0	1.0	0.5
60°	579.5	569.2	541.0	498.1	423.6	22.2	1.0	1.0	0.5
62.5°	547.0	536.1	509.0	462.1	387.5	18.3	1.0	1.0	1.0
65°	512.9	500.1	475.4	425.0	351.5	15.3	1.0	1.0	1.0
67.5°	478.8	462.5	439.3	387.0	314.5	12.8	1.0	1.0	1.0
70°	442.8	425.0	400.8	348.5	275.5	10.4	1.0	1.0	1.0
72.5°	405.8	388.5	362.3	309.5	238.9	7.9	1.0	1.0	1.0
75°	366.8	351.0	322.8	270.5	199.4	5.9	2.0	1.0	1.0
77.5°	326.3	314.0	282.4	230.5	160.9	3.9	2.0	1.0	1.0
80°	288.8	275.0	242.4	190.1	123.9	3.0	2.0	1.5	1.0
82.5°	250.3	237.9	205.4	153.0	88.9	2.5	2.0	1.5	1.0
85°	215.7	203.9	170.8	119.5	58.3	2.0	1.5	1.5	1.0
87.5°	185.1	174.3	141.7	87.4	33.1	1.5	1.5	1.5	1.0
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	25.35	26.96	25.71	27.28	27.59	20.78	22.40	21.15	22.71	23.02
	3H	27.80	29.26	28.17	29.59	29.95	21.42	22.89	21.80	23.22	23.58
	4H	28.92	30.30	29.32	30.65	31.03	21.57	22.95	21.97	23.30	23.67
	6H	30.01	31.30	30.42	31.66	32.05	21.61	22.89	22.02	23.26	23.65
	8H	30.54	31.77	30.97	32.16	32.56	21.60	22.83	22.02	23.21	23.61
	12H	31.11	32.29	31.54	32.67	33.10	21.58	22.76	22.01	23.14	23.57
4H	2H	26.01	27.39	26.41	27.74	28.11	21.91	23.29	22.31	23.64	24.01
	3H	28.69	29.86	29.10	30.26	30.66	23.25	24.42	23.66	24.82	25.22
	4H	29.99	31.05	30.42	31.47	31.90	23.79	24.85	24.22	25.26	25.70
	6H	31.27	32.21	31.73	32.65	33.10	24.06	25.00	24.51	25.44	25.89
	8H	31.90	32.78	32.36	33.22	33.68	24.10	24.98	24.56	25.42	25.88
	12H	32.59	33.38	33.07	33.85	34.32	24.11	24.90	24.59	25.38	25.85
8H	4H	30.35	31.23	30.81	31.67	32.14	24.73	25.61	25.19	26.05	26.52
	6H	31.84	32.57	32.33	33.06	33.54	25.32	26.06	25.82	26.55	27.02
	8H	32.62	33.29	33.13	33.79	34.27	25.50	26.17	26.01	26.67	27.16
	12H	33.51	34.10	34.02	34.59	35.15	25.60	26.20	26.11	26.69	27.24
12H	4H	30.39	31.19	30.87	31.66	32.13	24.95	25.74	25.43	26.22	26.69
	6H	31.93	32.59	32.43	33.10	33.58	25.67	26.34	26.18	26.84	27.33
	8H	32.81	33.40	33.31	33.89	34.45	25.99	26.58	26.49	27.07	27.63