

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: P892536

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892536
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-2SL-LVR-UNV-L850
Description: 2000 Lumen 2FT MICROBAY LINEAR BAY with LOUVER, 80CRI, 5000K CCT
Light Source: -
Ballast/Driver: -

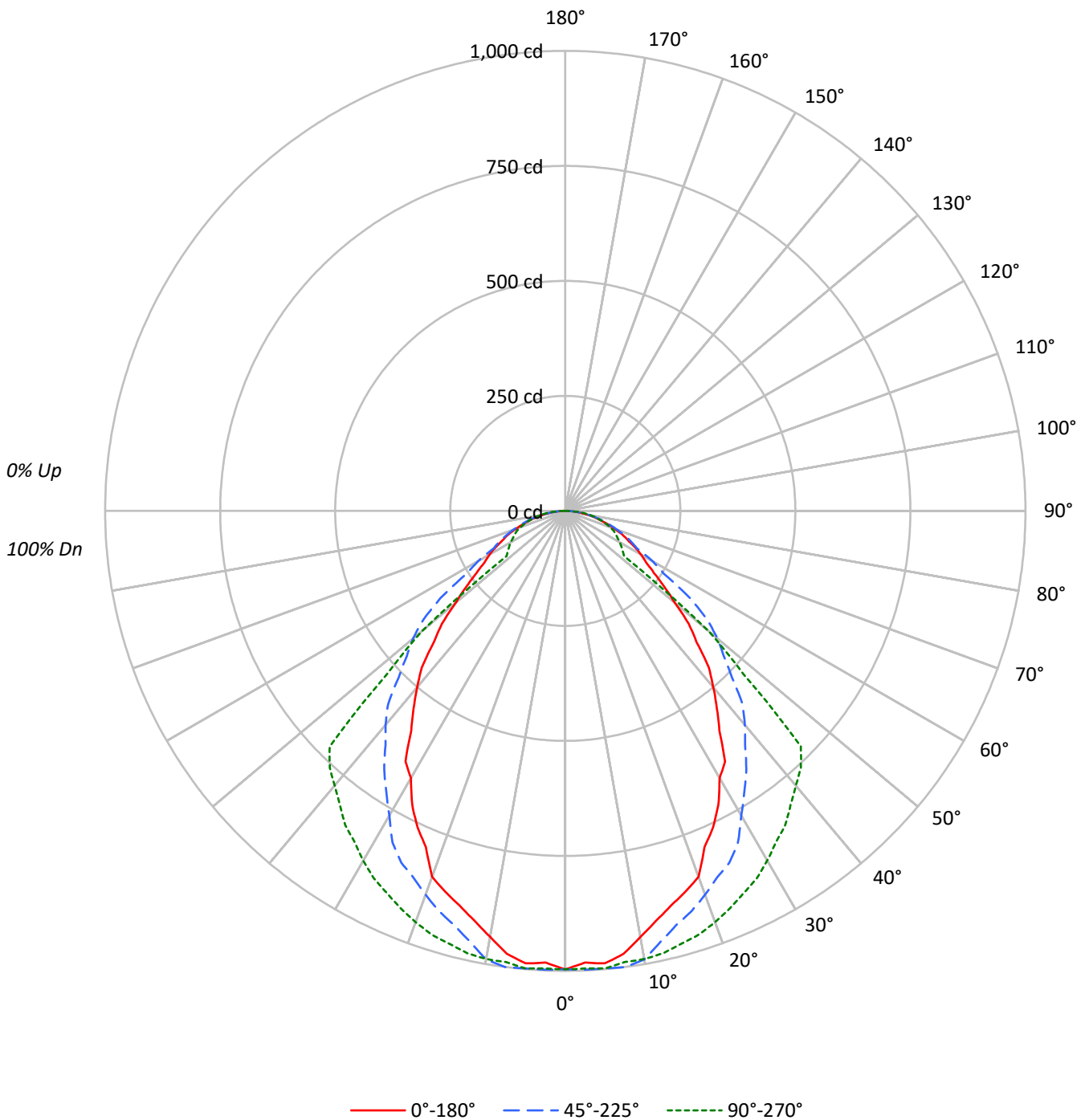
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2079.0 lumens
Efficiency: N/A
Efficacy: 139.5 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.3 / 1.26
Luminous Opening: Rectangular (W 0.38' x L: 1.98' x H: 0')
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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	100	
1	110	106	102	99	108	104	100	97	100	97	94	96	94	91	92	90	89	89	87	
2	102	94	88	83	99	93	87	82	89	84	80	86	82	79	83	80	77	77	75	
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	67	65	
4	87	76	68	62	84	75	67	62	72	66	61	70	64	60	68	63	59	59	57	
5	80	69	60	54	78	68	60	54	66	59	54	64	58	53	62	57	53	53	51	
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	47	45	
7	70	57	49	43	68	56	49	43	55	48	43	53	47	43	52	47	42	42	40	
8	65	52	45	39	64	52	44	39	50	44	39	49	43	39	48	43	38	38	37	
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	35	33	
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	32	30	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14255	14255	14255
5°	14179	14336	14336
10°	13660	14384	14369
15°	13150	13806	14424
20°	12882	13517	14481
25°	11987	13314	14471
30°	11079	12633	14502
35°	10195	11980	14558
40°	9347	11341	14553
45°	8167	10364	14649
50°	6908	9608	9065
55°	5869	8263	3794
60°	5439	6266	3911
65°	5054	5331	4106
70°	4768	5036	4316
75°	4400	4753	4455
80°	4028	4399	4696
85°	3562	4005	5055

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 14649 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.5	4.5
10°-20°	264.6	12.7
20°-30°	384.5	18.5
30°-40°	435.4	20.9
40°-50°	406.7	19.6
50°-60°	231.1	11.1
60°-70°	145.2	7.0
70°-80°	89.1	4.3
80°-90°	28.0	1.3
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°	743.5	35.8
0°-40°	1178.9	56.7
0°-60°	1816.7	87.4
0°-90°	2079.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2079.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	996	996	996	996	996	
5°	987	997	998	995	998	93
15°	888	903	932	983	974	251
25°	759	774	844	882	917	348
35°	584	623	686	776	834	368
45°	404	445	512	651	724	314
55°	235	257	331	174	152	215
65°	149	155	158	137	121	150
75°	80	82	86	88	81	85
85°	22	23	24	27	31	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	996.5	996.5	996.5	996.5	996.5
2.5°	982.9	993.8	998.3	997.4	995.6
5°	987.4	997.4	998.3	994.7	998.3
7.5°	971.1	994.7	1000.1	991.1	989.2
10°	940.4	954.0	990.2	993.8	989.2
12.5°	912.3	928.6	958.5	993.8	984.7
15°	887.9	903.3	932.2	982.9	973.9
17.5°	868.0	873.4	912.3	971.1	965.7
20°	846.2	857.1	887.9	942.2	951.2
22.5°	791.0	820.9	862.5	916.8	934.9
25°	759.4	773.8	843.5	881.5	916.8
27.5°	720.4	746.7	812.8	854.4	900.6
30°	670.7	700.5	764.8	826.3	877.9
32.5°	646.2	657.1	724.1	803.7	852.6
35°	583.8	622.7	686.0	775.7	833.6
37.5°	541.2	564.8	641.7	748.5	804.6
40°	500.5	527.7	607.3	718.6	779.3
42.5°	461.6	486.0	570.2	688.8	757.5
45°	403.7	445.3	512.3	650.8	724.1
47.5°	363.8	390.1	467.0	604.6	524.9
50°	310.4	342.1	431.7	414.5	407.3
52.5°	271.5	288.7	389.2	350.3	161.1
55°	235.3	257.0	331.3	173.8	152.1
57.5°	208.2	222.6	254.3	161.1	144.8
60°	190.1	193.7	219.0	153.9	136.7
62.5°	170.2	173.8	174.7	145.7	128.5
65°	149.3	154.8	157.5	136.7	121.3
67.5°	134.0	134.9	138.5	126.7	114.0
70°	114.0	115.8	120.4	115.8	103.2
72.5°	96.8	99.6	102.3	103.2	92.3
75°	79.6	82.4	86.0	87.8	80.6
77.5°	65.2	66.1	69.7	74.2	68.8
80°	48.9	51.6	53.4	57.9	57.0
82.5°	35.3	36.2	38.9	42.5	44.3
85°	21.7	22.6	24.4	27.2	30.8
87.5°	9.1	10.0	10.9	12.7	14.5
90°	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	16.95	18.43	17.31	18.74	19.06	14.70	16.17	15.06	16.49	16.80
	3H	18.54	19.86	18.91	20.19	20.55	17.03	18.35	17.41	18.68	19.04
	4H	19.14	20.38	19.54	20.73	21.11	17.97	19.21	18.38	19.56	19.94
	6H	19.60	20.74	20.01	21.11	21.50	18.77	19.91	19.18	20.28	20.67
	8H	19.75	20.84	20.18	21.23	21.63	19.07	20.16	19.50	20.55	20.95
	12H	19.85	20.89	20.28	21.28	21.71	19.32	20.36	19.75	20.74	21.17
4H	2H	17.52	18.76	17.92	19.11	19.49	15.85	17.09	16.25	17.44	17.82
	3H	19.34	20.37	19.75	20.77	21.17	18.29	19.32	18.70	19.72	20.12
	4H	20.07	21.00	20.51	21.41	21.85	19.34	20.26	19.77	20.68	21.12
	6H	20.67	21.47	21.12	21.91	22.37	20.23	21.04	20.69	21.48	21.94
	8H	20.86	21.61	21.33	22.06	22.53	20.58	21.33	21.04	21.77	22.24
	12H	21.01	21.68	21.49	22.16	22.63	20.86	21.53	21.35	22.01	22.49
8H	4H	20.38	21.13	20.84	21.58	22.04	19.74	20.49	20.21	20.94	21.40
	6H	21.10	21.72	21.60	22.22	22.69	20.78	21.41	21.28	21.90	22.38
	8H	21.38	21.94	21.89	22.45	22.93	21.22	21.78	21.74	22.29	22.78
	12H	21.59	22.09	22.10	22.58	23.15	21.61	22.10	22.12	22.60	23.16
12H	4H	20.42	21.09	20.90	21.57	22.04	19.78	20.45	20.26	20.93	21.40
	6H	21.17	21.73	21.68	22.24	22.73	20.85	21.41	21.37	21.92	22.41
	8H	21.50	22.00	22.01	22.49	23.06	21.36	21.85	21.87	22.35	22.91