

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: P892544

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892544
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-26)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-2SL-LVRA-UNV-L850
Description: 2000 Lumen 2FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 80CRI, 5000K CCT
Light Source: -
Ballast/Driver: -

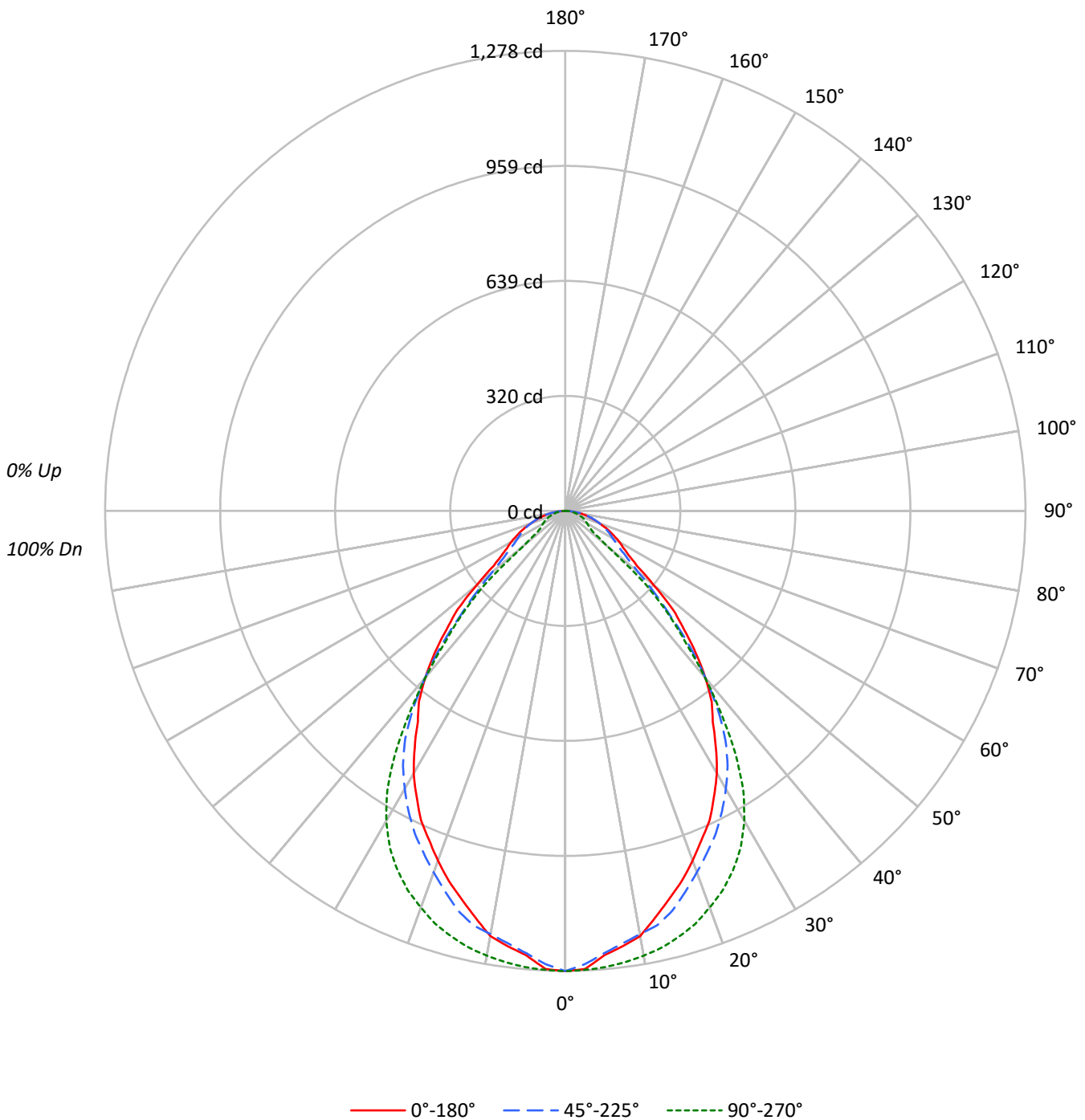
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2075.0 lumens
Efficiency: N/A
Efficacy: 139.3 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.16 / 1.12
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

TEST NUMBER: P892544
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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		0
RCR																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102		100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90		88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80		78
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71		69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63		62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57		55
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52		50
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47		45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43		41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40		38
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37		35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18290	18290	18290
5°	17797	17716	18270
10°	17418	17341	18227
15°	16519	17027	18125
20°	15737	16268	17848
25°	14970	15609	17393
30°	13907	14735	16423
35°	12471	13541	14404
40°	11298	11322	11261
45°	9446	8366	8159
50°	7135	5889	3336
55°	5367	4709	2105
60°	4987	4337	2026
65°	4641	4329	2031
70°	4245	4245	1999
75°	4024	4134	1929
80°	3715	3913	1985
85°	3250	3414	2167

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 9666 cd/sqm



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 CATALOG NUMBER: 2MB-2SL-LVRA-UNV-L850

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.1	5.7
10°-20°	325.4	15.7
20°-30°	461.4	22.2
30°-40°	475.4	22.9
40°-50°	332.0	16.0
50°-60°	159.3	7.7
60°-70°	111.8	5.4
70°-80°	69.9	3.4
80°-90°	21.6	1.0
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°	905.0	43.6
0°-40°	1380.4	66.5
0°-60°	1871.7	90.2
0°-90°	2075.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2075.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1278	1278	1278	1278	1278	
5°	1239	1238	1234	1266	1272	117
15°	1115	1124	1150	1183	1224	314
25°	948	958	989	1056	1102	434
35°	714	734	775	792	825	450
45°	467	478	414	392	403	360
55°	215	205	189	121	84	202
65°	137	128	128	97	60	136
75°	73	72	75	65	35	77
85°	20	20	21	20	13	22
90°	0	0	0	0	0	



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CATALOG NUMBER: 2MB-2SL-LVRA-UNV-L850

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1278.5	1278.5	1278.5	1278.5	1278.5
2.5°	1273.6	1269.6	1260.1	1277.5	1276.2
5°	1239.3	1237.7	1233.7	1266.0	1272.3
7.5°	1219.9	1216.6	1212.0	1247.6	1265.0
10°	1199.1	1203.1	1193.8	1226.5	1254.8
12.5°	1156.3	1166.8	1179.3	1204.7	1242.3
15°	1115.4	1123.7	1149.7	1182.6	1223.8
17.5°	1077.2	1086.7	1109.2	1158.6	1202.4
20°	1033.7	1046.9	1068.6	1131.9	1172.4
22.5°	988.9	1001.1	1028.4	1096.3	1141.4
25°	948.4	957.9	988.9	1055.8	1101.9
27.5°	894.6	912.4	941.8	1006.3	1054.8
30°	841.9	857.1	892.0	946.4	994.2
32.5°	778.3	800.4	839.0	880.5	920.3
35°	714.1	733.5	775.4	791.5	824.8
37.5°	667.3	672.5	696.3	694.3	713.1
40°	605.0	615.5	606.3	581.6	603.0
42.5°	537.8	550.3	513.1	484.4	492.0
45°	466.9	477.8	413.5	392.5	403.3
47.5°	405.6	404.6	333.5	319.3	304.1
50°	320.6	331.2	264.6	238.2	149.9
52.5°	250.4	254.4	218.1	152.2	98.5
55°	215.2	204.6	188.8	120.9	84.4
57.5°	191.1	177.9	167.4	112.4	77.1
60°	174.3	159.5	151.6	106.8	70.8
62.5°	155.2	143.7	140.7	101.8	65.2
65°	137.1	128.2	127.9	97.2	60.0
67.5°	119.0	114.0	115.3	91.6	54.0
70°	101.5	100.5	101.5	84.4	47.8
72.5°	86.7	85.7	88.3	75.1	40.9
75°	72.8	71.8	74.8	64.6	34.9
77.5°	58.0	58.7	60.6	53.7	29.3
80°	45.1	45.1	47.5	42.2	24.1
82.5°	32.3	32.6	33.9	31.0	18.8
85°	19.8	19.8	20.8	20.4	13.2
87.5°	6.6	7.6	8.9	9.6	6.6
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	15.74	17.10	16.11	17.41	17.72	12.08	13.43	12.44	13.74	14.06
	3H	17.48	18.69	17.86	19.02	19.38	14.05	15.26	14.43	15.59	15.95
	4H	18.15	19.28	18.56	19.63	20.01	14.76	15.89	15.16	16.24	16.62
	6H	18.66	19.70	19.07	20.07	20.46	15.28	16.32	15.69	16.69	17.08
	8H	18.83	19.82	19.26	20.21	20.61	15.47	16.45	15.90	16.84	17.25
	12H	18.94	19.88	19.37	20.27	20.70	15.61	16.55	16.04	16.93	17.36
4H	2H	16.27	17.40	16.68	17.75	18.13	13.70	14.83	14.10	15.18	15.56
	3H	18.25	19.18	18.66	19.59	19.99	15.88	16.81	16.29	17.21	17.61
	4H	19.05	19.89	19.49	20.31	20.75	16.76	17.59	17.19	18.01	18.45
	6H	19.70	20.42	20.16	20.87	21.33	17.40	18.12	17.86	18.57	19.03
	8H	19.92	20.59	20.38	21.04	21.51	17.61	18.29	18.08	18.73	19.20
	12H	20.07	20.67	20.56	21.15	21.63	17.77	18.37	18.25	18.85	19.32
8H	4H	19.34	20.01	19.81	20.46	20.93	17.41	18.08	17.87	18.53	19.00
	6H	20.12	20.68	20.62	21.17	21.65	18.27	18.82	18.77	19.32	19.80
	8H	20.42	20.92	20.94	21.44	21.93	18.60	19.09	19.12	19.61	20.10
	12H	20.66	21.10	21.17	21.59	22.16	18.86	19.30	19.37	19.79	20.36
12H	4H	19.35	19.96	19.84	20.44	20.91	17.48	18.08	17.96	18.56	19.03
	6H	20.17	20.67	20.69	21.19	21.68	18.40	18.90	18.92	19.42	19.91
	8H	20.54	20.98	21.05	21.47	22.04	18.82	19.26	19.33	19.75	20.32