

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: P892475

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892475
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-2SL-A-UNV-L940
Description: 2000 Lumen 2FT MICROBAY LINEAR BAY with AISLE OPTIC, 90CRI, 4000K CCT
Light Source: -
Ballast/Driver: -

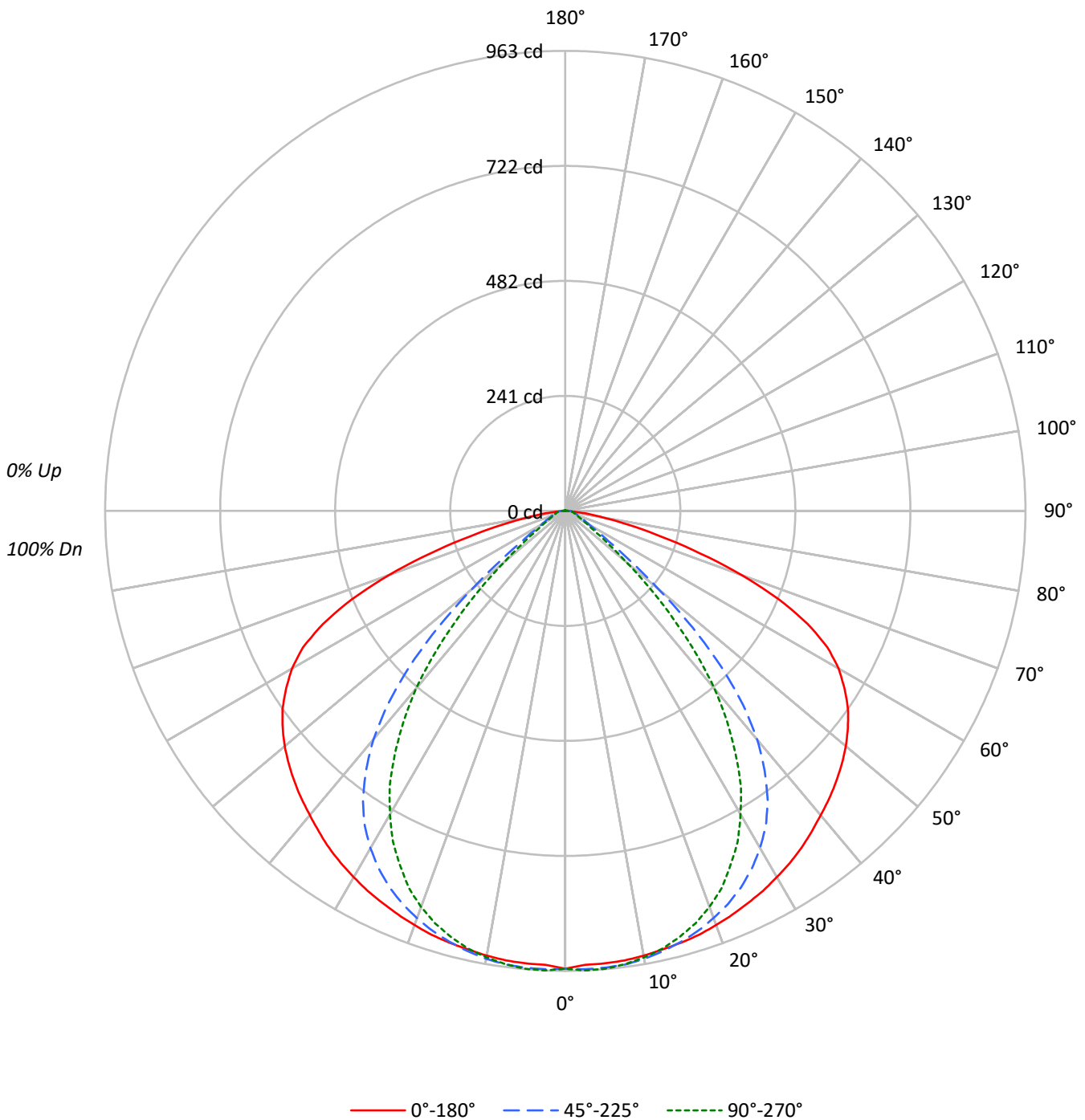
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2009.9 lumens
Efficiency: N/A
Efficacy: 134.9 lumens/watt
Spacing Criteria (0/90/45): 1.39 / 1.15 / 1.25
Luminous Opening: Rectangular (W 0.27' 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: P892475
CATALOG NUMBER: 2MB-2SL-A-UNV-L940

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	102	102	102	100
1	111	107	103	100	108	105	101	99	100	98	95	97	94	93	93	91	90	93	91	90	88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	84	81	79	77
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	76	73	69	76	73	69	67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	70	65	61	59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	63	59	55	63	59	55	53
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	58	53	49	47
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	54	48	44	42
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	50	44	40	38
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	40	36	46	40	36	35
10	58	46	39	34	57	46	39	34	45	38	34	44	38	33	43	37	33	43	37	33	32

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19625	19625	19625
5°	19545	19724	19776
10°	19655	19796	19732
15°	19840	19800	19575
20°	20108	19768	19224
25°	20454	19649	18490
30°	20932	19277	17343
35°	21538	18460	15538
40°	22229	16701	12994
45°	23213	13387	9264
50°	24421	8139	5314
55°	25782	3927	2856
60°	27045	2404	1945
65°	27094	1938	1604
70°	23451	1760	1497
75°	16511	1780	1630
80°	9728	2134	2064
85°	4558	3219	3078

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 62.5°
 Luminance: 27428 cd/sqm



TEST NUMBER: P892475
 CATALOG NUMBER: 2MB-2SL-A-UNV-L940

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.3	4.5
10°-20°	263.5	13.1
20°-30°	398.8	19.8
30°-40°	460.6	22.9
40°-50°	393.9	19.6
50°-60°	215.1	10.7
60°-70°	108.7	5.4
70°-80°	52.8	2.6
80°-90°	18.1	0.9
90°-100°	4.4	0.2
100°-110°	0.7	0.0
110°-120°	0.3	0.0
120°-130°	0.2	0.0
130°-140°	0.4	0.0
140°-150°	0.4	0.0
150°-160°	0.3	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-30°	753.7	37.5
0°-40°	1214.3	60.4
0°-60°	1823.3	90.7
0°-90°	2002.8	99.7
90°-120°	5.3	0.3
90°-150°	6.3	0.3
90°-180°	7.0	0.3
0°-180°	2009.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	958	958	958	958	958	
5°	951	958	960	963	962	91
15°	936	942	934	930	923	265
25°	905	900	870	836	818	418
35°	862	832	738	652	622	540
45°	802	700	462	344	320	619
55°	722	332	110	86	80	644
65°	559	62	40	36	33	541
75°	209	34	22	22	21	231
85°	19	19	14	14	13	30
90°	0	11	9	9	8	1
95°	0	1	4	6	5	0
105°	0	0	1	1	1	0
115°	0	0	0	1	1	0
125°	0	0	1	1	0	0
135°	1	1	1	1	1	0
145°	1	1	1	1	1	0
155°	1	1	1	1	1	0
165°	1	1	1	1	1	0
175°	1	1	1	1	1	0
180°	1	1	1	1	1	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	958.4	958.4	958.4	958.4	958.4
2.5°	950.9	957.8	960.3	964.6	962.8
5°	950.9	958.4	959.6	963.4	962.1
7.5°	949.0	955.9	957.8	959.6	957.1
10°	945.3	952.1	952.1	952.1	949.0
12.5°	940.3	947.8	944.0	941.5	938.4
15°	935.9	941.5	934.0	929.7	923.4
17.5°	930.3	934.7	922.2	913.4	905.3
20°	922.8	924.7	907.2	890.9	882.2
22.5°	914.7	912.8	890.3	866.6	854.7
25°	905.3	900.3	869.7	835.9	818.4
27.5°	896.5	885.9	844.7	799.1	781.0
30°	885.3	870.9	815.3	757.8	733.5
32.5°	874.1	852.8	781.0	711.0	684.1
35°	861.6	832.2	738.5	652.3	621.6
37.5°	846.6	806.6	685.4	588.5	556.0
40°	831.6	776.6	624.8	514.8	486.1
42.5°	817.2	742.9	550.4	432.3	404.2
45°	801.6	699.7	462.3	343.6	319.9
47.5°	784.7	640.4	360.5	260.5	240.5
50°	766.6	563.5	255.5	182.4	166.8
52.5°	745.4	457.3	168.7	123.1	113.1
55°	722.2	331.8	110.0	85.6	80.0
57.5°	692.9	216.2	77.5	63.7	59.4
60°	660.4	129.3	58.7	50.6	47.5
62.5°	618.5	83.7	47.5	42.5	38.7
65°	559.2	61.9	40.0	35.6	33.1
67.5°	484.2	51.2	33.7	30.6	28.1
70°	391.7	45.0	29.4	26.9	25.0
72.5°	296.1	39.4	25.6	23.7	22.5
75°	208.7	34.4	22.5	21.9	20.6
77.5°	136.8	30.0	20.6	20.0	19.4
80°	82.5	25.6	18.1	18.1	17.5
82.5°	46.2	22.5	16.2	16.2	15.0
85°	19.4	19.4	13.7	13.7	13.1
87.5°	5.6	15.0	11.2	11.2	10.0
90°	0.0	11.2	8.7	8.7	8.1
92.5°	0.0	6.2	6.2	6.9	6.2
95°	0.0	1.2	3.7	5.6	5.0
97.5°	0.0	0.6	2.5	4.4	3.7
100°	0.0	0.0	1.2	3.1	2.5
102.5°	0.0	0.0	0.6	1.9	1.9
105°	0.0	0.0	0.6	1.2	0.6
107.5°	0.0	0.0	0.6	0.6	0.6
110°	0.0	0.0	0.6	0.6	0.6



TEST NUMBER: P892475
 CATALOG NUMBER: 2MB-2SL-A-UNV-L940

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.6	0.6	0.6
115°	0.0	0.0	0.0	0.6	0.6
117.5°	0.0	0.0	0.0	0.6	0.0
120°	0.0	0.0	0.0	0.6	0.0
122.5°	0.0	0.0	0.0	0.6	0.0
125°	0.0	0.0	0.6	0.6	0.0
127.5°	0.0	0.0	0.6	0.6	0.6
130°	0.0	0.0	0.6	0.6	0.6
132.5°	0.6	0.0	0.6	0.6	0.6
135°	0.6	0.6	0.6	0.6	0.6
137.5°	0.6	0.6	0.6	0.6	0.6
140°	0.6	0.6	0.6	0.6	0.6
142.5°	0.6	0.6	0.6	0.6	0.6
145°	0.6	0.6	0.6	0.6	0.6
147.5°	0.6	0.6	0.6	0.6	0.6
150°	0.6	0.6	0.6	0.6	0.6
152.5°	0.6	0.6	0.6	0.6	0.6
155°	0.6	0.6	0.6	1.2	0.6
157.5°	0.6	0.6	0.6	1.2	0.6
160°	0.6	0.6	0.6	1.2	0.6
162.5°	0.6	0.6	1.2	1.2	1.2
165°	0.6	0.6	1.2	1.2	1.2
167.5°	0.6	0.6	1.2	1.2	1.2
170°	0.6	0.6	1.2	1.2	1.2
172.5°	0.6	0.6	1.2	1.2	1.2
175°	0.6	0.6	1.2	1.2	1.2
177.5°	0.6	0.6	1.2	1.2	1.2
180°	1.2	1.2	1.2	1.2	1.2



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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	20.51	21.93	20.88	22.25	22.57	9.63	11.04	10.00	11.36	11.69
	3H	23.29	24.55	23.68	24.89	25.26	10.64	11.89	11.02	12.23	12.60
	4H	24.12	25.30	24.53	25.65	26.04	11.19	12.37	11.60	12.72	13.11
	6H	24.52	25.60	24.94	25.97	26.38	11.89	12.97	12.31	13.35	13.75
	8H	24.59	25.62	25.03	26.02	26.43	12.27	13.29	12.70	13.69	14.10
	12H	24.61	25.59	25.05	25.98	26.42	12.68	13.66	13.12	14.05	14.49
4H	2H	20.33	21.51	20.74	21.86	22.25	10.06	11.24	10.47	11.60	11.99
	3H	23.13	24.09	23.54	24.50	24.91	11.34	12.30	11.76	12.71	13.12
	4H	23.96	24.82	24.40	25.25	25.70	12.08	12.94	12.52	13.36	13.81
	6H	24.43	25.18	24.90	25.63	26.10	12.99	13.74	13.46	14.19	14.66
	8H	24.54	25.24	25.02	25.69	26.17	13.47	14.17	13.95	14.62	15.10
	12H	24.59	25.22	25.09	25.70	26.18	14.02	14.64	14.51	15.13	15.61
8H	4H	23.85	24.55	24.33	25.00	25.48	12.52	13.21	12.99	13.67	14.14
	6H	24.33	24.90	24.83	25.40	25.89	13.63	14.21	14.14	14.71	15.20
	8H	24.46	24.98	24.98	25.50	25.99	14.27	14.79	14.80	15.31	15.81
	12H	24.55	25.01	25.07	25.51	26.09	15.01	15.47	15.53	15.97	16.55
12H	4H	23.82	24.44	24.31	24.92	25.40	12.68	13.30	13.17	13.79	14.27
	6H	24.28	24.80	24.80	25.31	25.81	13.84	14.36	14.37	14.88	15.38
	8H	24.44	24.90	24.95	25.40	25.97	14.58	15.04	15.10	15.54	16.12