

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: P893302

Luminaire Tested: 4MB-2SL-LVR-UNV-L935

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893302
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-8)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4MB-2SL-LVR-UNV-L935
Description: 2000 Lumen 4FT MICROBAY LINEAR BAY with LOUVER, 90CRI, 3500K CCT
Light Source: -
Ballast/Driver: -

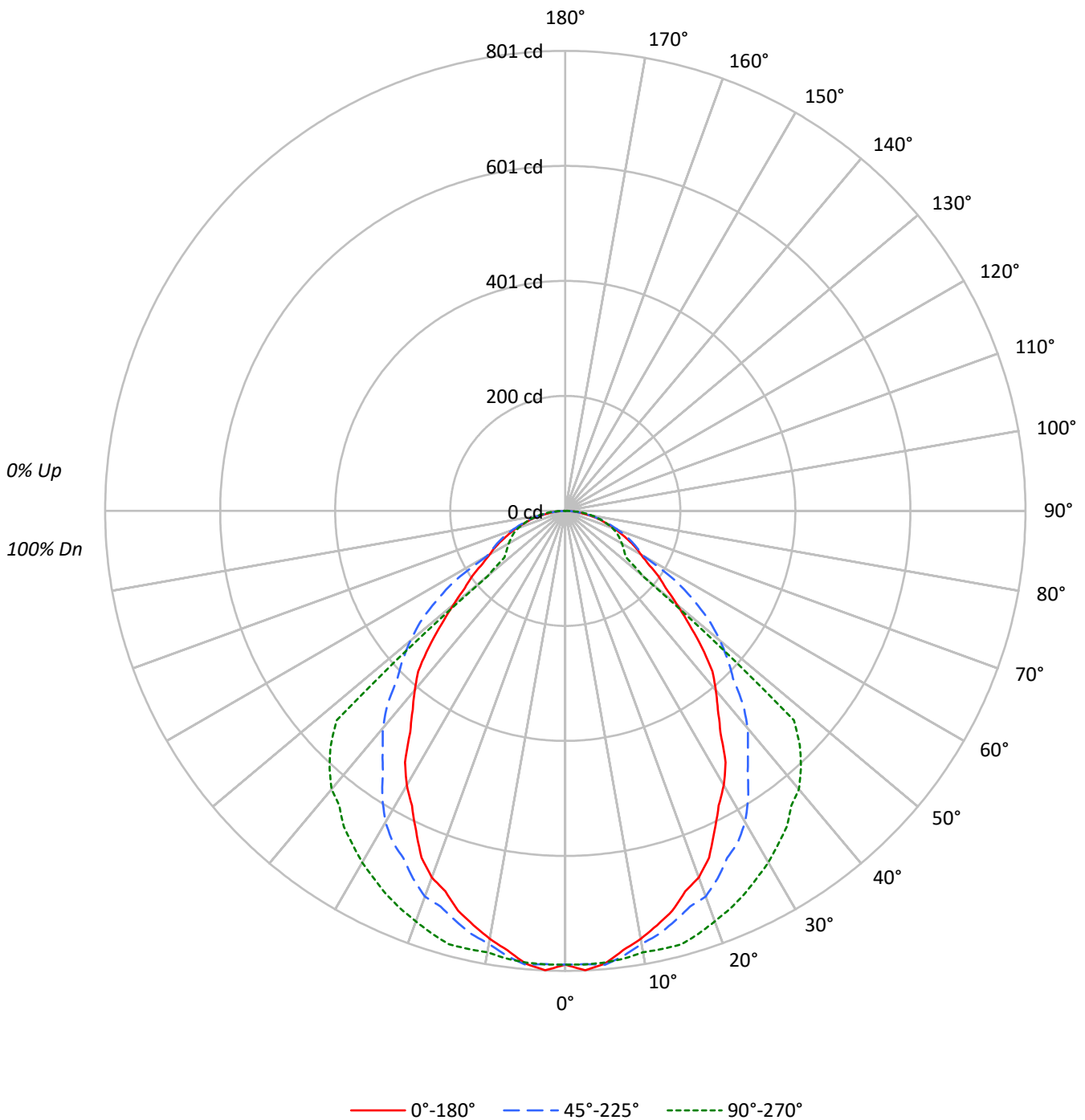
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1686.0 lumens
Efficiency: N/A
Efficacy: 122.2 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.32 / 1.27
Luminous Opening: Rectangular (W 0.38' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 13.8
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	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	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	89	89	89	87
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	77	77	77	75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	67	67	67	65
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	59	59	59	57
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	57	52	52	52	52	50
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	47	47	47	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	42	42	42	40
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	38	38	38	36
9	61	48	40	35	59	48	40	35	47	40	35	45	39	35	44	39	35	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5622	5622	5622
5°	5652	5666	5637
10°	5466	5530	5638
15°	5309	5442	5754
20°	5142	5411	5759
25°	4824	5236	5784
30°	4532	5141	5808
35°	4087	4808	5835
40°	3785	4587	5876
45°	3386	4158	5810
50°	2809	3895	1951
55°	2447	3419	1562
60°	2164	2228	1619
65°	2059	2167	1719
70°	1931	2049	1814
75°	1798	1930	1864
80°	1635	1819	1950
85°	1453	1551	2106

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5810 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.9	4.4
10°-20°	210.8	12.5
20°-30°	310.1	18.4
30°-40°	354.6	21.0
40°-50°	335.8	19.9
50°-60°	185.0	11.0
60°-70°	118.8	7.0
70°-80°	73.3	4.3
80°-90°	22.6	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°	595.9	35.3
0°-40°	950.5	56.4
0°-60°	1471.3	87.3
0°-90°	1686.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1686.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	790	790	790	790	790	
5°	791	798	793	793	789	74
15°	721	730	739	778	781	202
25°	614	642	667	711	737	283
35°	470	511	554	634	672	297
45°	336	368	413	530	577	257
55°	197	207	276	142	126	176
65°	122	126	129	115	102	121
75°	65	67	70	74	68	70
85°	18	18	19	22	26	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	790.1	790.1	790.1	790.1	790.1
2.5°	800.6	802.6	789.7	789.3	790.5
5°	791.3	797.7	793.3	793.3	789.3
7.5°	771.5	782.4	781.2	790.5	786.0
10°	756.6	765.4	765.4	789.7	780.4
12.5°	738.8	748.9	754.6	780.0	781.2
15°	720.7	729.5	738.8	777.6	781.2
17.5°	694.4	710.6	722.3	760.2	771.9
20°	679.1	688.8	714.6	745.3	760.6
22.5°	653.7	667.8	692.8	727.1	749.7
25°	614.5	642.0	667.0	710.6	736.8
27.5°	578.2	598.8	650.4	696.4	721.5
30°	551.6	567.7	625.8	675.9	706.9
32.5°	519.3	545.5	592.7	655.7	688.8
35°	470.5	510.8	553.6	633.9	671.8
37.5°	436.2	464.0	522.1	611.3	646.4
40°	407.5	433.0	493.9	583.1	632.7
42.5°	378.9	399.5	458.4	562.1	607.3
45°	336.5	368.4	413.2	530.2	577.4
47.5°	292.1	326.0	383.7	503.2	539.5
50°	253.8	280.8	351.9	449.5	176.3
52.5°	220.3	245.3	318.0	162.6	133.2
55°	197.3	207.0	275.6	142.0	125.9
57.5°	169.9	185.6	231.2	135.2	119.4
60°	152.1	159.0	156.6	128.3	113.8
62.5°	138.0	142.8	142.0	121.5	107.3
65°	122.3	126.3	128.7	114.6	102.1
67.5°	106.5	110.2	113.8	106.1	94.8
70°	92.8	95.2	98.5	96.0	87.2
72.5°	78.7	81.5	83.5	85.5	77.1
75°	65.4	66.6	70.2	73.8	67.8
77.5°	53.3	54.5	56.9	60.9	57.7
80°	39.9	41.2	44.4	47.6	47.6
82.5°	28.2	29.1	31.1	35.5	37.5
85°	17.8	17.8	19.0	21.8	25.8
87.5°	6.9	6.9	8.1	9.7	12.9
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	13.95	15.43	14.31	15.74	16.06	11.75	13.23	12.12	13.55	13.86
	3H	15.47	16.80	15.85	17.13	17.49	14.08	15.41	14.46	15.74	16.10
	4H	16.07	17.31	16.47	17.66	18.04	15.03	16.27	15.43	16.62	17.00
	6H	16.52	17.67	16.94	18.04	18.43	15.82	16.96	16.23	17.33	17.72
	8H	16.67	17.76	17.10	18.15	18.55	16.13	17.22	16.55	17.61	18.01
	12H	16.77	17.81	17.20	18.19	18.62	16.37	17.42	16.81	17.80	18.23
4H	2H	14.50	15.74	14.90	16.09	16.47	12.86	14.10	13.26	14.45	14.83
	3H	16.27	17.30	16.68	17.70	18.10	15.30	16.33	15.71	16.73	17.13
	4H	16.99	17.92	17.42	18.33	18.77	16.37	17.29	16.80	17.71	18.15
	6H	17.58	18.38	18.04	18.83	19.29	17.25	18.06	17.71	18.50	18.96
	8H	17.77	18.52	18.23	18.96	19.43	17.60	18.36	18.07	18.80	19.27
	12H	17.90	18.58	18.39	19.06	19.53	17.89	18.57	18.38	19.05	19.52
8H	4H	17.30	18.05	17.76	18.50	18.96	16.75	17.51	17.22	17.95	18.42
	6H	18.01	18.63	18.51	19.13	19.60	17.79	18.41	18.29	18.90	19.38
	8H	18.27	18.83	18.79	19.34	19.83	18.23	18.80	18.75	19.31	19.79
	12H	18.48	18.98	18.99	19.47	20.04	18.62	19.12	19.13	19.61	20.17
12H	4H	17.33	18.01	17.82	18.49	18.96	16.79	17.46	17.27	17.94	18.41
	6H	18.08	18.64	18.59	19.15	19.64	17.85	18.42	18.37	18.93	19.41
	8H	18.40	18.89	18.91	19.39	19.95	18.36	18.86	18.87	19.35	19.92