

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: P893702

Luminaire Tested: 4MB-6SL-AOL-UNV-L935

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893702
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-14)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4MB-6SL-AOL-UNV-L935
Description: 6000 Lumen 4FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS NO UPLIGHT, 9
3500K CCT
Light Source: -
Ballast/Driver: -

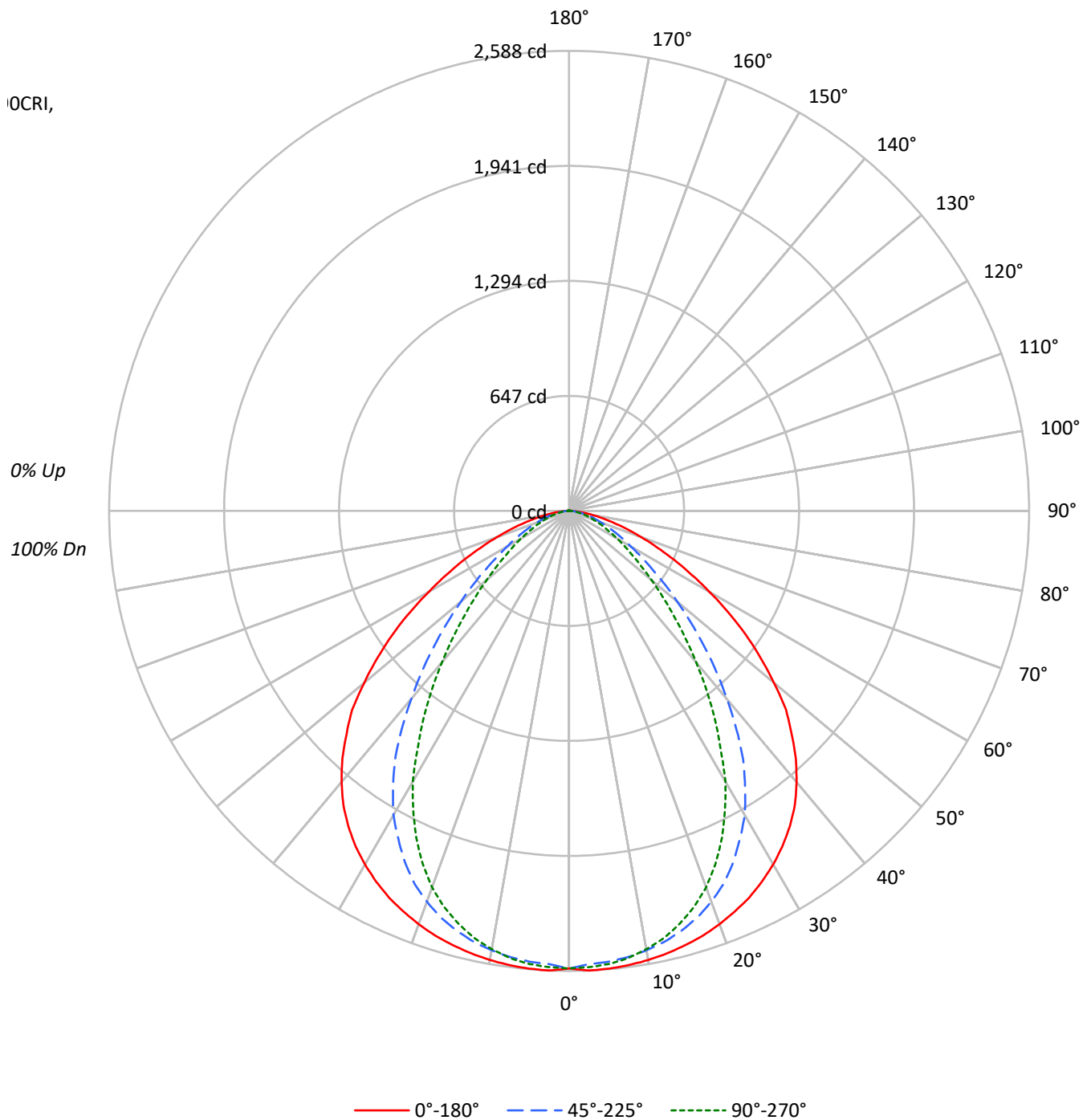
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5141.0 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.06 / 1.16
Luminous Opening: Rectangular (W 0.27' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 44.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 4
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				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	104	101	98	100	98	95	96	94	92	93	91	89	89	89	89	87
2	102	95	89	85	100	93	88	84	90	85	82	87	83	80	84	81	78	78	78	78	76
3	94	85	78	73	92	84	77	72	81	75	71	78	73	70	76	72	68	68	68	68	66
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	60	60	60	60	58
5	81	70	62	56	79	69	61	55	66	60	55	65	59	54	63	58	54	54	54	54	52
6	75	63	55	50	74	63	55	49	61	54	49	59	53	49	58	52	48	48	48	48	46
7	70	58	50	45	69	57	50	44	56	49	44	54	48	44	53	48	43	43	43	43	42
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	39	39	39	38
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	36	36	36	34
10	58	46	38	34	57	45	38	33	44	38	33	43	37	33	43	37	33	33	33	33	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26210	26210	26210
5°	26424	26023	26159
10°	26531	25958	25889
15°	26668	25772	25344
20°	26812	25356	24420
25°	26962	24530	22838
30°	27009	23241	20679
35°	26920	21230	17789
40°	26471	18373	14781
45°	25487	15440	11961
50°	23850	12574	9579
55°	21550	10107	7681
60°	18586	8225	6361
65°	15726	6849	5229
70°	12837	5824	4440
75°	10282	4911	3777
80°	8011	4199	3249
85°	6216	3704	2933

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 25487 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.7	4.7
10°-20°	693.5	13.5
20°-30°	1010.8	19.7
30°-40°	1089.6	21.2
40°-50°	913.4	17.8
50°-60°	618.4	12.0
60°-70°	352.6	6.9
70°-80°	161.3	3.1
80°-90°	42.2	0.8
90°-100°	5.2	0.1
100°-110°	3.5	0.1
110°-120°	1.9	0.0
120°-130°	1.1	0.0
130°-140°	1.1	0.0
140°-150°	0.9	0.0
150°-160°	0.8	0.0
160°-170°	0.6	0.0
170°-180°	0.2	0.0
0°-30°	1948.1	37.9
0°-40°	3037.6	59.1
0°-60°	4569.5	88.9
0°-90°	5125.6	99.7
90°-120°	10.7	0.2
90°-150°	13.8	0.3
90°-180°	15.0	0.3
0°-180°	5141.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2574	2574	2574	2574	2574	
5°	2585	2576	2546	2566	2559	246
15°	2529	2507	2444	2428	2404	715
25°	2399	2336	2183	2083	2032	1105
35°	2165	2002	1708	1499	1431	1352
45°	1770	1476	1072	884	830	1362
55°	1214	888	569	461	433	1081
65°	653	454	284	230	217	651
75°	261	192	125	102	96	285
85°	53	45	32	27	25	62
90°	7	7	4	4	3	7
95°	11	7	4	2	2	9
105°	7	5	2	2	1	8
115°	4	3	2	1	1	4
125°	2	2	2	1	1	2
135°	1	2	2	2	1	1
145°	2	2	2	2	2	1
155°	2	2	2	2	2	1
165°	2	2	2	2	2	0
175°	2	2	2	3	3	0
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2573.6	2573.6	2573.6	2573.6	2573.6
2.5°	2588.4	2581.7	2552.2	2576.5	2569.2
5°	2584.7	2576.5	2545.5	2566.2	2558.8
7.5°	2577.3	2566.9	2532.2	2547.7	2538.2
10°	2565.5	2552.9	2510.1	2519.0	2503.5
12.5°	2549.2	2533.7	2482.8	2480.6	2462.1
15°	2529.3	2507.1	2444.4	2428.1	2403.8
17.5°	2504.9	2476.9	2398.6	2366.1	2336.6
20°	2473.9	2437.7	2339.6	2287.9	2253.2
22.5°	2438.5	2389.8	2270.9	2188.2	2150.6
25°	2399.4	2335.9	2183.0	2082.6	2032.4
27.5°	2350.6	2270.9	2081.2	1951.2	1899.6
30°	2296.7	2195.6	1976.3	1810.2	1758.5
32.5°	2235.5	2109.2	1842.7	1658.1	1585.8
35°	2165.3	2002.2	1707.6	1498.7	1430.8
37.5°	2086.3	1890.7	1545.9	1337.7	1269.1
40°	1991.1	1758.5	1382.0	1176.1	1111.8
42.5°	1888.5	1624.2	1224.8	1022.5	967.1
45°	1769.6	1476.5	1072.0	883.7	830.5
47.5°	1655.2	1327.4	928.7	756.7	713.2
50°	1505.3	1168.7	793.6	640.8	604.6
52.5°	1359.1	1021.8	678.5	547.8	513.8
55°	1213.7	888.1	569.2	461.4	432.6
57.5°	1060.1	757.5	479.1	390.5	371.3
60°	912.5	644.5	403.8	327.8	312.3
62.5°	777.4	540.4	341.8	276.8	262.1
65°	652.6	454.0	284.2	230.3	217.0
67.5°	534.5	373.6	237.0	191.9	182.4
70°	431.1	302.7	195.6	158.0	149.1
72.5°	341.8	242.2	156.5	129.2	119.6
75°	261.3	191.9	124.8	101.9	96.0
77.5°	194.9	144.7	96.0	78.3	73.8
80°	136.6	104.8	71.6	59.1	55.4
82.5°	93.0	72.3	50.2	41.3	39.1
85°	53.2	45.0	31.7	26.6	25.1
87.5°	27.3	23.6	17.0	12.6	11.1
90°	7.4	7.4	4.4	3.7	3.0
92.5°	11.8	6.6	4.4	3.0	2.2
95°	11.1	6.6	3.7	2.2	2.2
97.5°	10.3	6.6	3.0	2.2	1.5
100°	9.6	5.9	3.0	1.5	1.5
102.5°	8.9	5.9	3.0	1.5	1.5
105°	7.4	5.2	2.2	1.5	0.7
107.5°	6.6	4.4	2.2	1.5	0.7
110°	5.2	3.7	2.2	1.5	0.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	4.4	3.7	1.5	1.5	0.7
115°	3.7	3.0	1.5	0.7	0.7
117.5°	3.0	2.2	1.5	0.7	0.7
120°	2.2	2.2	1.5	0.7	0.7
122.5°	2.2	1.5	1.5	0.7	0.7
125°	1.5	1.5	1.5	0.7	0.7
127.5°	1.5	1.5	1.5	0.7	0.7
130°	1.5	1.5	1.5	0.7	0.7
132.5°	1.5	1.5	1.5	1.5	0.7
135°	0.7	1.5	1.5	1.5	0.7
137.5°	1.5	1.5	1.5	1.5	1.5
140°	1.5	1.5	1.5	1.5	1.5
142.5°	1.5	1.5	1.5	1.5	1.5
145°	1.5	1.5	1.5	1.5	1.5
147.5°	1.5	1.5	1.5	1.5	1.5
150°	1.5	1.5	1.5	1.5	1.5
152.5°	1.5	1.5	1.5	1.5	1.5
155°	1.5	1.5	1.5	2.2	2.2
157.5°	1.5	1.5	2.2	2.2	2.2
160°	1.5	1.5	2.2	2.2	2.2
162.5°	1.5	1.5	2.2	2.2	2.2
165°	1.5	2.2	2.2	2.2	2.2
167.5°	1.5	2.2	2.2	2.2	3.0
170°	1.5	2.2	2.2	3.0	3.0
172.5°	1.5	2.2	2.2	3.0	3.0
175°	2.2	2.2	2.2	3.0	3.0
177.5°	2.2	2.2	2.2	3.0	3.0
180°	2.2	2.2	2.2	2.2	2.2



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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	21.72	23.16	22.09	23.48	23.80	16.56	18.00	16.93	18.32	18.64
	3H	23.02	24.31	23.41	24.64	25.01	17.57	18.85	17.95	19.19	19.56
	4H	23.45	24.65	23.86	25.00	25.39	17.91	19.11	18.31	19.46	19.85
	6H	23.72	24.82	24.13	25.19	25.59	18.13	19.24	18.55	19.61	20.01
	8H	23.79	24.84	24.22	25.23	25.64	18.20	19.25	18.63	19.65	20.06
	12H	23.83	24.83	24.26	25.22	25.66	18.24	19.25	18.68	19.63	20.07
4H	2H	21.71	22.91	22.12	23.27	23.66	17.18	18.38	17.59	18.74	19.13
	3H	23.18	24.17	23.60	24.58	24.99	18.38	19.37	18.80	19.77	20.18
	4H	23.71	24.59	24.14	25.01	25.46	18.80	19.68	19.23	20.10	20.55
	6H	24.08	24.85	24.55	25.30	25.77	19.11	19.87	19.57	20.32	20.79
	8H	24.19	24.91	24.66	25.36	25.84	19.20	19.92	19.67	20.37	20.84
	12H	24.27	24.91	24.76	25.39	25.87	19.27	19.91	19.76	20.39	20.87
8H	4H	23.69	24.40	24.16	24.85	25.33	19.13	19.85	19.60	20.30	20.77
	6H	24.12	24.71	24.62	25.21	25.69	19.52	20.11	20.03	20.61	21.10
	8H	24.27	24.80	24.80	25.32	25.82	19.66	20.19	20.19	20.71	21.21
	12H	24.40	24.87	24.92	25.37	25.95	19.79	20.26	20.30	20.75	21.33
12H	4H	23.66	24.30	24.15	24.78	25.26	19.18	19.81	19.66	20.30	20.78
	6H	24.09	24.62	24.61	25.13	25.63	19.59	20.12	20.11	20.64	21.13
	8H	24.28	24.74	24.79	25.24	25.82	19.78	20.25	20.30	20.75	21.32