

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: P893704

Luminaire Tested: 4MB-6SL-AOL-UNV-L950

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893704
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-L950
Description: 6000 Lumen 4FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS NO UPLIGHT, 9
5000K CCT
Light Source: -
Ballast/Driver: -

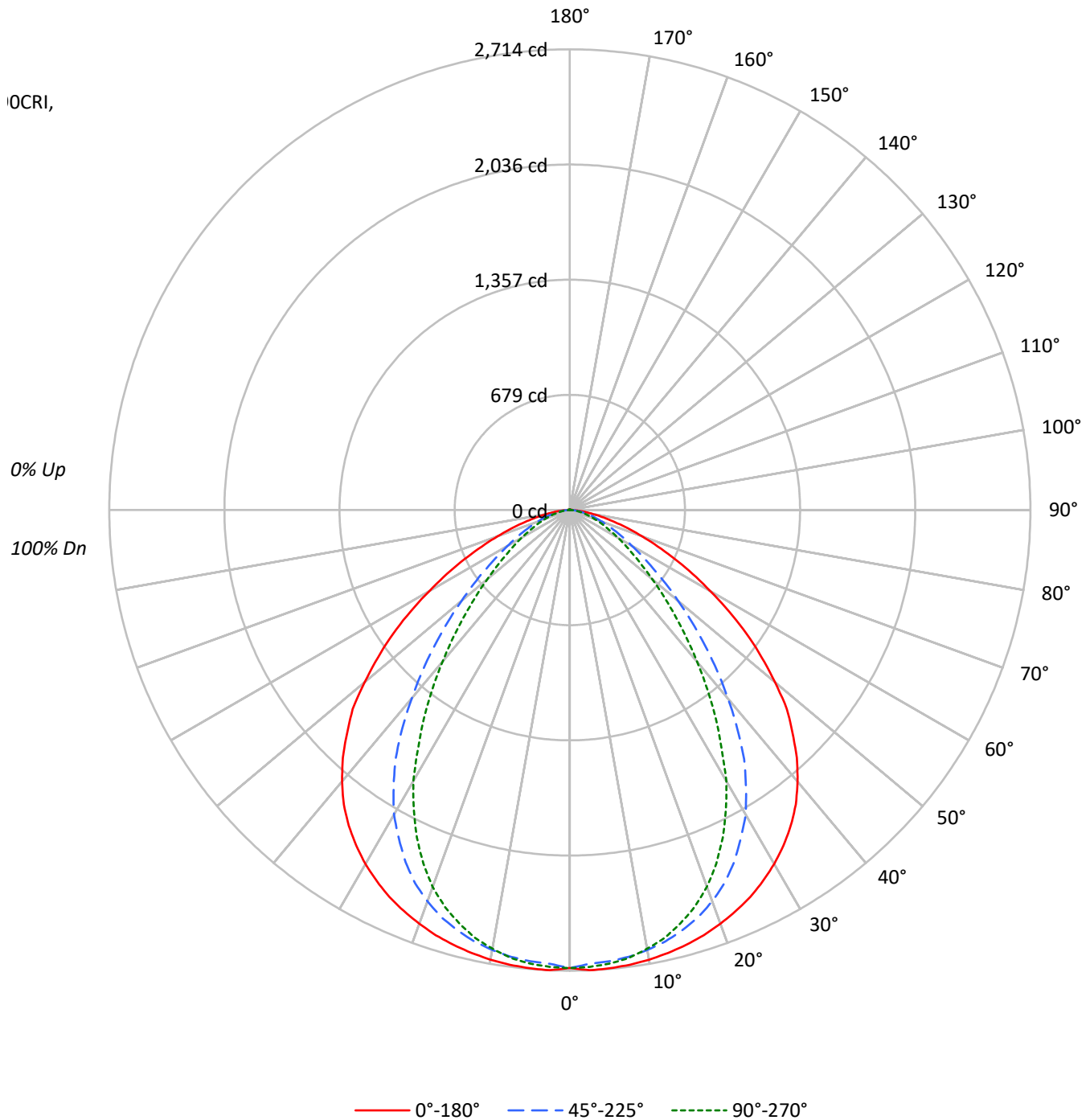
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5389.9 lumens
Efficiency: N/A
Efficacy: 121.4 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 (A_{in}): 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				
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	67	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°	27479	27479	27479
5°	27703	27283	27427
10°	27815	27215	27143
15°	27959	27021	26572
20°	28110	26584	25602
25°	28268	25719	23945
30°	28317	24367	21681
35°	28225	22258	18650
40°	27752	19264	15497
45°	26721	16187	12542
50°	25005	13184	10043
55°	22594	10597	8054
60°	19486	8624	6669
65°	16488	7181	5485
70°	13459	6107	4657
75°	10782	5147	3958
80°	8398	4405	3407
85°	6509	3891	3073

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 26721 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.5	4.7
10°-20°	727.1	13.5
20°-30°	1059.8	19.7
30°-40°	1142.4	21.2
40°-50°	957.7	17.8
50°-60°	648.3	12.0
60°-70°	369.7	6.9
70°-80°	169.1	3.1
80°-90°	44.3	0.8
90°-100°	5.4	0.1
100°-110°	3.7	0.1
110°-120°	2.0	0.0
120°-130°	1.2	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°	2042.4	37.9
0°-40°	3184.8	59.1
0°-60°	4790.8	88.9
0°-90°	5373.9	99.7
90°-120°	11.1	0.2
90°-150°	14.3	0.3
90°-180°	16.0	0.3
0°-180°	5389.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2698	2698	2698	2698	2698	
5°	2710	2701	2669	2690	2683	258
15°	2652	2629	2563	2546	2520	749
25°	2516	2449	2289	2184	2131	1159
35°	2270	2099	1790	1571	1500	1417
45°	1855	1548	1124	926	871	1428
55°	1272	931	597	484	454	1133
65°	684	476	298	242	228	683
75°	274	201	131	107	101	299
85°	56	47	33	28	26	65
90°	8	8	5	4	3	8
95°	12	7	4	2	2	9
105°	8	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°	2698.2	2698.2	2698.2	2698.2	2698.2
2.5°	2713.7	2706.8	2675.8	2701.3	2693.6
5°	2709.8	2701.3	2668.8	2690.5	2682.8
7.5°	2702.1	2691.3	2654.9	2671.1	2661.1
10°	2689.7	2676.6	2631.7	2641.0	2624.7
12.5°	2672.7	2656.4	2603.0	2600.7	2581.4
15°	2651.8	2628.6	2562.8	2545.8	2520.2
17.5°	2626.3	2596.8	2514.8	2480.7	2449.8
20°	2593.7	2555.8	2452.9	2398.7	2362.3
22.5°	2556.6	2505.5	2380.9	2294.2	2254.7
25°	2515.6	2449.0	2288.8	2183.5	2130.9
27.5°	2464.5	2380.9	2182.0	2045.7	1991.6
30°	2408.0	2301.9	2072.1	1897.9	1843.7
32.5°	2343.7	2211.4	1932.0	1738.5	1662.6
35°	2270.2	2099.1	1790.3	1571.3	1500.1
37.5°	2187.4	1982.3	1620.8	1402.5	1330.5
40°	2087.5	1843.7	1449.0	1233.0	1165.7
42.5°	1979.9	1702.8	1284.1	1072.0	1014.0
45°	1855.3	1548.0	1123.9	926.5	870.8
47.5°	1735.4	1391.7	973.7	793.4	747.7
50°	1578.2	1225.3	832.1	671.9	633.9
52.5°	1425.0	1071.2	711.3	574.3	538.7
55°	1272.5	931.1	596.8	483.8	453.6
57.5°	1111.5	794.1	502.3	409.5	389.3
60°	956.7	675.7	423.4	343.7	327.4
62.5°	815.0	566.6	358.4	290.3	274.8
65°	684.2	476.0	298.0	241.5	227.6
67.5°	560.4	391.7	248.5	201.2	191.2
70°	452.0	317.3	205.1	165.6	156.4
72.5°	358.4	253.9	164.1	135.5	125.4
75°	274.0	201.2	130.8	106.8	100.6
77.5°	204.3	151.7	100.6	82.0	77.4
80°	143.2	109.9	75.1	61.9	58.1
82.5°	97.5	75.9	52.6	43.3	41.0
85°	55.7	47.2	33.3	27.9	26.3
87.5°	28.6	24.8	17.8	13.2	11.6
90°	7.7	7.7	4.6	3.9	3.1
92.5°	12.4	7.0	4.6	3.1	2.3
95°	11.6	7.0	3.9	2.3	2.3
97.5°	10.8	7.0	3.1	2.3	1.5
100°	10.1	6.2	3.1	1.5	1.5
102.5°	9.3	6.2	3.1	1.5	1.5
105°	7.7	5.4	2.3	1.5	0.8
107.5°	7.0	4.6	2.3	1.5	0.8
110°	5.4	3.9	2.3	1.5	0.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	4.6	3.9	1.5	1.5	0.8
115°	3.9	3.1	1.5	0.8	0.8
117.5°	3.1	2.3	1.5	0.8	0.8
120°	2.3	2.3	1.5	0.8	0.8
122.5°	2.3	1.5	1.5	0.8	0.8
125°	1.5	1.5	1.5	0.8	0.8
127.5°	1.5	1.5	1.5	0.8	0.8
130°	1.5	1.5	1.5	0.8	0.8
132.5°	1.5	1.5	1.5	1.5	0.8
135°	0.8	1.5	1.5	1.5	0.8
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	2.3	2.3
157.5°	1.5	1.5	2.3	2.3	2.3
160°	1.5	1.5	2.3	2.3	2.3
162.5°	1.5	1.5	2.3	2.3	2.3
165°	1.5	2.3	2.3	2.3	2.3
167.5°	1.5	2.3	2.3	2.3	3.1
170°	1.5	2.3	2.3	3.1	3.1
172.5°	1.5	2.3	2.3	3.1	3.1
175°	2.3	2.3	2.3	3.1	3.1
177.5°	2.3	2.3	2.3	3.1	3.1
180°	2.3	2.3	2.3	2.3	2.3



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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	21.88	23.32	22.25	23.64	23.96	16.72	18.16	17.10	18.48	18.81
	3H	23.19	24.47	23.57	24.81	25.18	17.74	19.02	18.12	19.35	19.72
	4H	23.61	24.81	24.02	25.17	25.56	18.07	19.27	18.48	19.63	20.01
	6H	23.88	24.98	24.30	25.36	25.76	18.30	19.40	18.72	19.78	20.18
	8H	23.95	25.00	24.38	25.40	25.81	18.36	19.41	18.80	19.81	20.22
	12H	23.99	24.99	24.43	25.38	25.82	18.41	19.41	18.84	19.80	20.24
4H	2H	21.88	23.08	22.28	23.43	23.82	17.35	18.55	17.75	18.90	19.29
	3H	23.35	24.33	23.76	24.74	25.15	18.54	19.53	18.96	19.94	20.35
	4H	23.87	24.75	24.31	25.18	25.63	18.96	19.85	19.40	20.27	20.72
	6H	24.25	25.01	24.71	25.46	25.93	19.27	20.04	19.74	20.49	20.96
	8H	24.36	25.07	24.83	25.53	26.00	19.36	20.08	19.84	20.53	21.01
	12H	24.43	25.07	24.92	25.56	26.04	19.44	20.07	19.92	20.56	21.04
8H	4H	23.85	24.57	24.32	25.02	25.49	19.29	20.01	19.77	20.46	20.94
	6H	24.28	24.87	24.79	25.37	25.86	19.69	20.28	20.19	20.78	21.26
	8H	24.44	24.97	24.96	25.49	25.98	19.83	20.36	20.35	20.87	21.37
	12H	24.57	25.04	25.09	25.54	26.11	19.95	20.42	20.47	20.92	21.49
12H	4H	23.82	24.46	24.31	24.95	25.43	19.34	19.98	19.83	20.46	20.94
	6H	24.25	24.78	24.77	25.30	25.79	19.75	20.28	20.28	20.80	21.30
	8H	24.44	24.91	24.96	25.41	25.98	19.94	20.41	20.46	20.91	21.49