

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: P893688

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893688
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-16)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4MB-6SL-A-UNV-L950
Description: 6000 Lumen 4FT MICROBAY LINEAR BAY with AISLE OPTIC, 90CRI, 5000K CCT
Light Source: -
Ballast/Driver: -

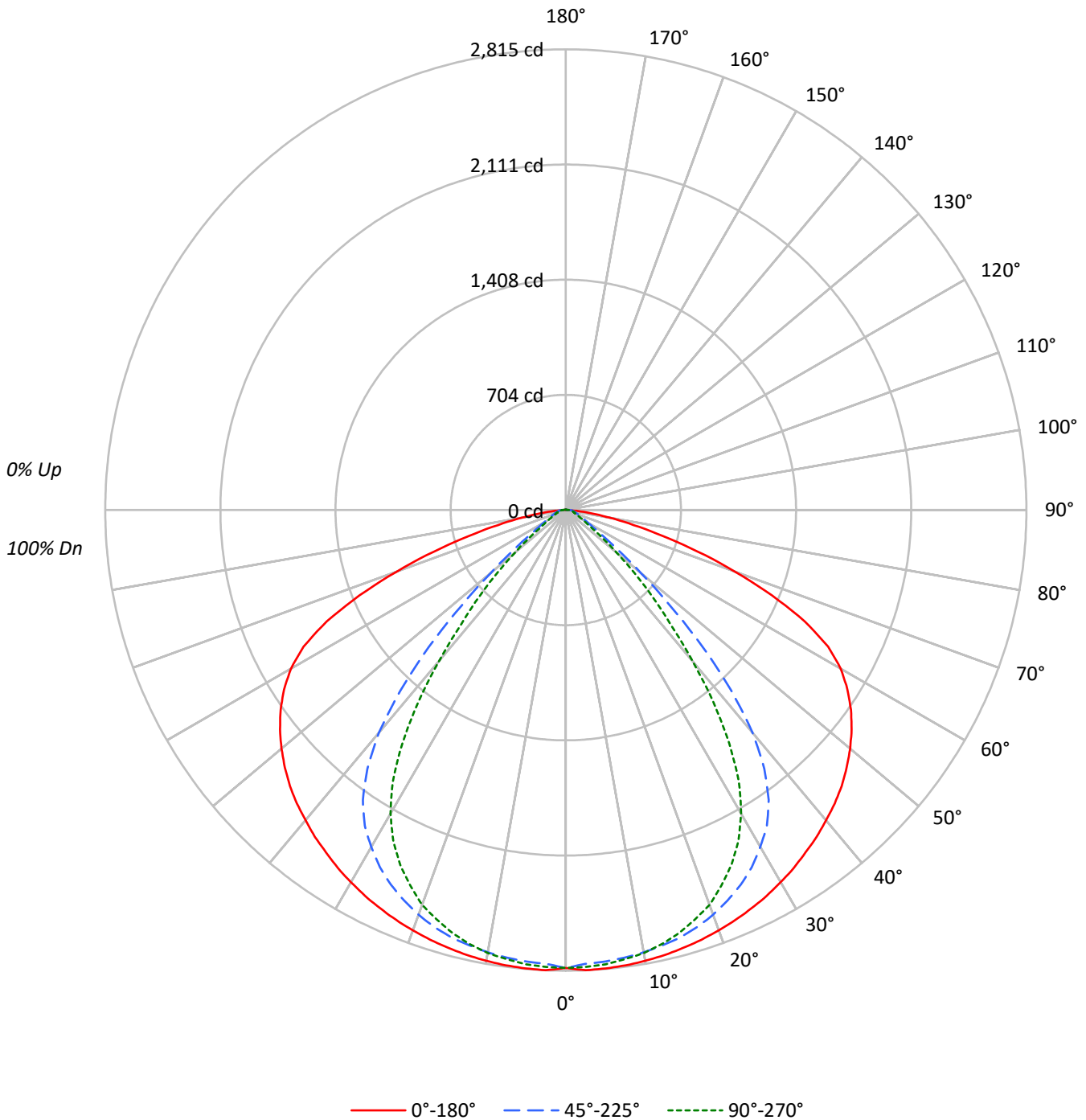
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5735.0 lumens
Efficiency: N/A
Efficacy: 129.2 lumens/watt
Spacing Criteria (0/90/45): 1.41 / 1.15 / 1.23
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

TEST NUMBER: P893688
CATALOG NUMBER: 4MB-6SL-A-UNV-L950

Luminous Intensity Polar Plot





TEST NUMBER: P893688

CATALOG NUMBER: 4MB-6SL-A-UNV-L950

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	28491	28491	28491
5°	28743	28316	28482
10°	28924	28379	28419
15°	29211	28501	28207
20°	29624	28525	27828
25°	30176	28402	26888
30°	30879	27956	25198
35°	31760	26881	21664
40°	32892	23608	16013
45°	34340	17035	10770
50°	35935	9517	6426
55°	37772	4920	3519
60°	39513	3200	2491
65°	38839	2629	1978
70°	32754	2421	1843
75°	24093	2467	1979
80°	16070	2903	2498
85°	8775	4709	3798

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 62.5°
 Luminance: 39850 cd/sqm



TEST NUMBER: P893688
 CATALOG NUMBER: 4MB-6SL-A-UNV-L950

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.6	4.6
10°-20°	767.7	13.4
20°-30°	1167.7	20.4
30°-40°	1333.6	23.3
40°-50°	1075.9	18.8
50°-60°	588.9	10.3
60°-70°	310.5	5.4
70°-80°	152.3	2.7
80°-90°	53.6	0.9
90°-100°	11.5	0.2
100°-110°	1.6	0.0
110°-120°	1.0	0.0
120°-130°	0.9	0.0
130°-140°	0.9	0.0
140°-150°	1.1	0.0
150°-160°	1.0	0.0
160°-170°	0.8	0.0
170°-180°	0.3	0.0
0°-30°	2201.0	38.4
0°-40°	3534.7	61.6
0°-60°	5199.5	90.7
0°-90°	5715.9	99.7
90°-120°	14.1	0.2
90°-150°	17.0	0.3
90°-180°	19.0	0.3
0°-180°	5735.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2798	2798	2798	2798	2798	
5°	2812	2803	2770	2794	2786	268
15°	2770	2754	2703	2699	2675	784
25°	2685	2647	2528	2442	2393	1241
35°	2555	2447	2162	1868	1742	1603
45°	2384	2048	1183	808	748	1840
55°	2127	876	277	214	198	1898
65°	1612	202	109	88	82	1559
75°	612	114	63	53	50	676
85°	75	60	40	36	32	104
90°	3	31	25	22	20	5
95°	2	4	8	13	12	2
105°	1	0	1	2	2	1
115°	1	1	1	2	1	1
125°	1	1	1	2	1	1
135°	1	1	2	2	1	1
145°	2	2	2	2	2	1
155°	2	2	2	3	2	1
165°	2	2	3	3	3	0
175°	2	2	3	4	3	0
180°	3	3	3	3	3	



TEST NUMBER: P893688

CATALOG NUMBER: 4MB-6SL-A-UNV-L950

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2797.6	2797.6	2797.6	2797.6	2797.6
2.5°	2814.7	2806.9	2775.2	2802.3	2794.5
5°	2811.6	2803.1	2769.8	2794.5	2786.0
7.5°	2806.2	2795.3	2758.9	2781.4	2768.2
10°	2796.9	2786.0	2744.2	2762.0	2748.1
12.5°	2786.0	2771.3	2724.9	2734.2	2716.4
15°	2770.5	2753.5	2703.2	2698.6	2675.3
17.5°	2753.5	2732.6	2671.5	2651.3	2623.5
20°	2733.4	2707.8	2632.0	2592.5	2567.7
22.5°	2710.9	2677.7	2582.4	2522.1	2483.4
25°	2685.4	2646.7	2527.5	2441.5	2392.8
27.5°	2658.3	2605.7	2460.9	2347.9	2282.1
30°	2625.8	2562.3	2377.3	2224.8	2142.7
32.5°	2593.3	2508.1	2287.5	2066.1	1968.6
35°	2554.6	2447.0	2162.1	1867.9	1742.5
37.5°	2518.2	2373.4	1992.6	1619.4	1484.7
40°	2474.1	2286.7	1775.8	1333.8	1204.5
42.5°	2432.3	2186.1	1494.8	1058.2	946.0
45°	2384.3	2048.3	1182.8	808.2	747.8
47.5°	2328.5	1860.2	860.0	601.5	563.6
50°	2268.1	1601.6	600.7	436.6	405.6
52.5°	2201.6	1252.5	404.9	303.5	286.4
55°	2127.3	875.5	277.1	214.4	198.2
57.5°	2041.3	569.7	201.3	161.8	151.0
60°	1939.9	363.8	157.1	128.5	122.3
62.5°	1806.8	255.5	129.3	106.1	100.6
65°	1611.7	202.0	109.1	88.2	82.1
67.5°	1364.8	171.1	93.7	74.3	70.4
70°	1100.0	148.6	81.3	64.3	61.9
72.5°	845.3	130.1	70.4	57.3	55.7
75°	612.3	113.8	62.7	52.6	50.3
77.5°	424.2	98.3	55.7	47.2	45.7
80°	274.0	85.2	49.5	43.4	42.6
82.5°	157.1	71.2	44.9	41.8	41.0
85°	75.1	59.6	40.3	36.4	32.5
87.5°	24.0	44.1	31.7	27.9	24.8
90°	3.1	31.0	24.8	21.7	20.1
92.5°	3.1	17.0	17.8	17.8	17.0
95°	2.3	3.9	8.5	13.2	12.4
97.5°	2.3	1.5	5.4	9.3	9.3
100°	1.5	0.8	2.3	6.2	6.2
102.5°	1.5	0.8	0.8	3.9	3.9
105°	0.8	0.0	0.8	1.5	1.5
107.5°	0.8	0.8	0.8	1.5	0.8
110°	0.8	0.8	0.8	1.5	0.8



TEST NUMBER: P893688

CATALOG NUMBER: 4MB-6SL-A-UNV-L950

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	0.8	0.8	1.5	0.8
115°	0.8	0.8	0.8	1.5	0.8
117.5°	0.8	0.8	0.8	1.5	0.8
120°	0.8	0.8	0.8	1.5	0.8
122.5°	0.8	0.8	0.8	1.5	0.8
125°	0.8	0.8	0.8	1.5	0.8
127.5°	0.8	0.8	0.8	1.5	0.8
130°	0.8	0.8	1.5	1.5	0.8
132.5°	0.8	0.8	1.5	1.5	0.8
135°	0.8	0.8	1.5	1.5	0.8
137.5°	0.8	0.8	1.5	1.5	1.5
140°	1.5	0.8	1.5	1.5	1.5
142.5°	1.5	1.5	1.5	2.3	1.5
145°	1.5	1.5	1.5	2.3	1.5
147.5°	1.5	1.5	2.3	2.3	1.5
150°	1.5	1.5	2.3	2.3	1.5
152.5°	1.5	1.5	2.3	2.3	2.3
155°	1.5	1.5	2.3	3.1	2.3
157.5°	1.5	1.5	2.3	3.1	2.3
160°	1.5	2.3	3.1	3.1	2.3
162.5°	1.5	2.3	3.1	3.1	3.1
165°	1.5	2.3	3.1	3.1	3.1
167.5°	2.3	2.3	3.1	3.9	3.1
170°	2.3	2.3	3.1	3.9	3.1
172.5°	2.3	2.3	3.1	3.9	3.1
175°	2.3	2.3	3.1	3.9	3.1
177.5°	2.3	2.3	3.1	3.9	3.9
180°	3.1	3.1	3.1	3.1	3.1



TEST NUMBER: P893688
 CATALOG NUMBER: 4MB-6SL-A-UNV-L950

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	21.54	22.94	21.91	23.26	23.59	10.06	11.46	10.43	11.78	12.10
	3H	24.45	25.70	24.84	26.04	26.41	10.99	12.24	11.38	12.57	12.95
	4H	25.35	26.51	25.75	26.87	27.26	11.51	12.67	11.92	13.03	13.42
	6H	25.84	26.91	26.26	27.29	27.69	12.15	13.22	12.57	13.59	13.99
	8H	25.96	26.97	26.39	27.37	27.78	12.56	13.58	13.00	13.98	14.39
	12H	26.00	26.97	26.44	27.36	27.80	13.01	13.98	13.45	14.37	14.81
4H	2H	21.36	22.52	21.77	22.88	23.27	10.58	11.74	10.98	12.10	12.49
	3H	24.29	25.24	24.71	25.65	26.06	11.77	12.72	12.19	13.13	13.54
	4H	25.19	26.04	25.63	26.47	26.92	12.44	13.29	12.88	13.72	14.16
	6H	25.78	26.52	26.25	26.98	27.45	13.26	14.00	13.73	14.45	14.92
	8H	25.94	26.64	26.42	27.09	27.57	13.79	14.48	14.26	14.94	15.41
	12H	26.04	26.65	26.53	27.14	27.62	14.37	14.99	14.86	15.47	15.95
8H	4H	25.08	25.77	25.55	26.23	26.70	13.03	13.72	13.50	14.17	14.65
	6H	25.68	26.25	26.19	26.75	27.24	14.03	14.60	14.54	15.10	15.59
	8H	25.87	26.38	26.39	26.90	27.40	14.71	15.22	15.23	15.74	16.24
	12H	26.01	26.47	26.53	26.97	27.54	15.47	15.93	15.99	16.43	17.00
12H	4H	25.04	25.66	25.53	26.14	26.63	13.29	13.90	13.78	14.39	14.87
	6H	25.63	26.14	26.15	26.66	27.16	14.34	14.86	14.87	15.37	15.87
	8H	25.84	26.30	26.36	26.80	27.38	15.11	15.56	15.62	16.06	16.64