

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: P893224

Luminaire Tested: 4MB-10HL-RND-UNV-L950

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893224
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2403-334-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4MB-10HL-RND-UNV-L950
Description: 10000 Lumen 4FT MICROBAY LINEAR BAY with ROUND FROSTED LENS, 90CRI, 5000K CCT
Light Source: -
Ballast/Driver: -

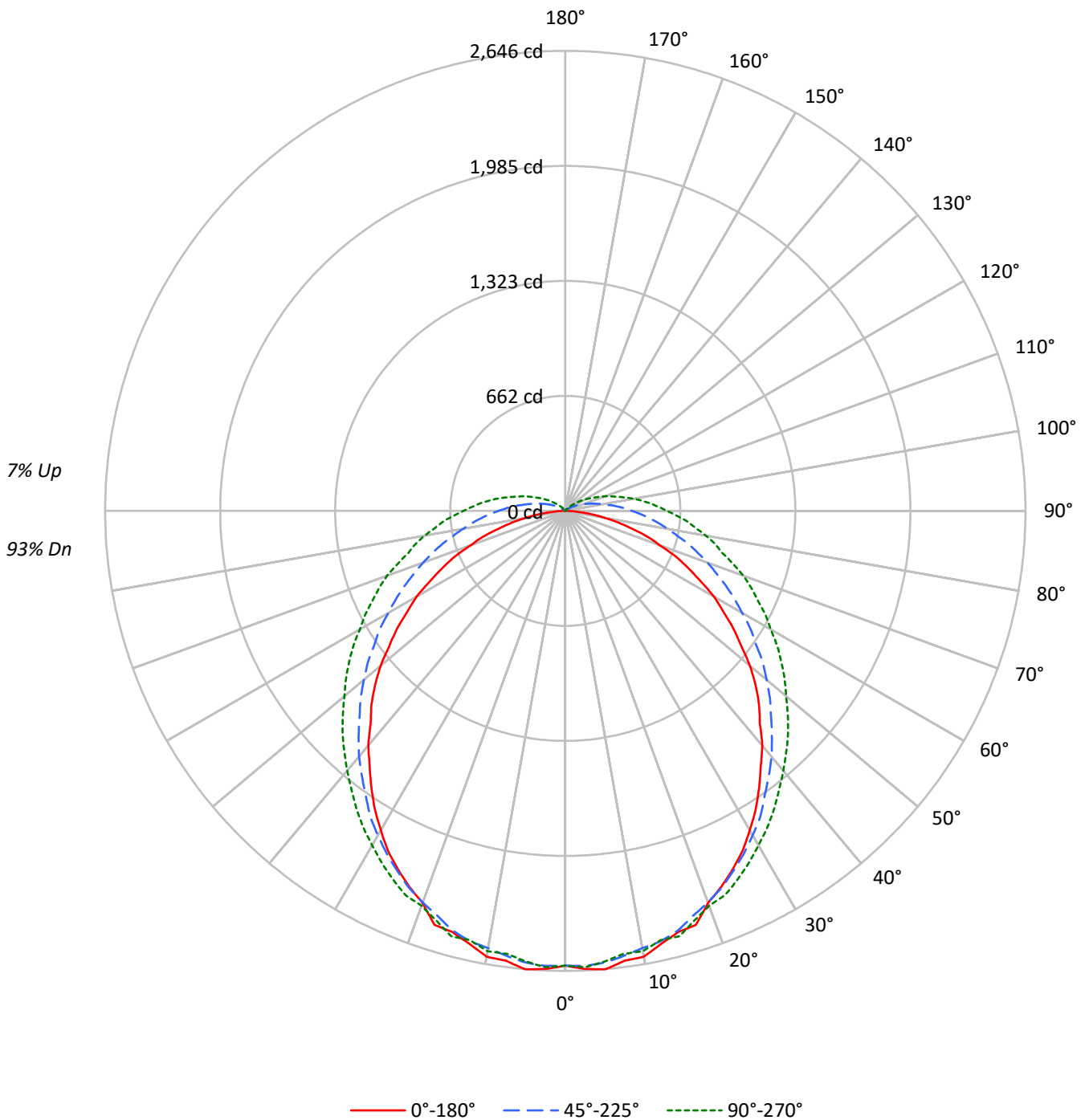
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8615.0 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.35
Luminous Opening: Rectangular (W 0.38' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 75.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 7.45
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P893224
CATALOG NUMBER: 4MB-10HL-RND-UNV-L950

Luminous Intensity Polar Plot





TEST NUMBER: P893224
 CATALOG NUMBER: 4MB-10HL-RND-UNV-L950

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.0	2.9
10°-20°	705.9	8.2
20°-30°	1057.8	12.3
30°-40°	1257.1	14.6
40°-50°	1301.4	15.1
50°-60°	1206.0	14.0
60°-70°	1004.1	11.7
70°-80°	745.2	8.7
80°-90°	492.9	5.7
90°-100°	300.0	3.5
100°-110°	168.1	2.0
110°-120°	82.8	1.0
120°-130°	33.7	0.4
130°-140°	9.8	0.1
140°-150°	1.4	0.0
150°-160°	0.4	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-30°	2011.7	23.4
0°-40°	3268.8	37.9
0°-60°	5776.3	67.0
0°-90°	8018.5	93.1
90°-120°	550.9	6.4
90°-150°	595.8	6.9
90°-180°	597.0	6.9
0°-180°	8615.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2615	2615	2615	2615	2615	
5°	2646	2618	2608	2621	2601	250
15°	2508	2498	2499	2503	2533	710
25°	2276	2273	2285	2330	2342	1047
35°	1943	1957	1999	2063	2093	1216
45°	1576	1598	1673	1777	1811	1214
55°	1180	1230	1339	1473	1517	1055
65°	780	853	1019	1169	1223	775
75°	398	519	730	887	934	426
85°	93	262	486	658	706	105
90°	5	170	384	537	585	7
95°	1	105	298	444	493	1
105°	1	35	162	274	312	1
115°	1	8	75	151	181	1
125°	1	2	28	69	88	1
135°	2	1	7	23	31	1
145°	2	1	0	2	4	2
155°	2	2	0	0	0	1
165°	4	2	0	0	0	1
175°	4	2	0	0	0	0
180°	1	1	1	1	1	



TEST NUMBER: P893224

CATALOG NUMBER: 4MB-10HL-RND-UNV-L950

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2615.4	2615.4	2615.4	2615.4	2615.4
2.5°	2637.0	2623.8	2619.0	2613.0	2627.4
5°	2646.5	2617.8	2608.3	2621.4	2601.1
7.5°	2609.5	2602.3	2581.9	2589.1	2570.0
10°	2603.5	2564.0	2553.2	2577.2	2571.2
12.5°	2549.6	2516.1	2535.3	2552.0	2529.3
15°	2507.8	2498.2	2499.4	2503.0	2532.9
17.5°	2497.0	2453.9	2442.0	2471.9	2469.5
20°	2398.9	2390.5	2396.5	2436.0	2416.8
22.5°	2341.5	2315.1	2347.4	2385.7	2394.1
25°	2275.6	2273.3	2285.2	2329.5	2341.5
27.5°	2206.3	2190.7	2223.0	2274.5	2284.0
30°	2121.3	2115.3	2154.8	2199.1	2220.6
32.5°	2037.6	2041.1	2086.6	2123.7	2160.8
35°	1943.0	1957.4	1999.3	2062.7	2092.6
37.5°	1847.3	1865.3	1921.5	1994.5	2019.6
40°	1762.4	1766.0	1844.9	1919.1	1950.2
42.5°	1655.9	1691.8	1758.8	1856.9	1880.8
45°	1575.7	1598.5	1672.6	1776.7	1811.4
47.5°	1484.8	1511.1	1596.1	1697.8	1734.9
50°	1385.5	1409.4	1511.1	1627.2	1657.1
52.5°	1275.4	1324.5	1431.0	1550.6	1590.1
55°	1179.7	1230.0	1338.8	1472.8	1517.1
57.5°	1076.8	1127.1	1263.5	1387.9	1445.3
60°	988.3	1036.1	1174.9	1329.3	1364.0
62.5°	878.2	946.4	1097.1	1249.1	1298.1
65°	780.1	853.1	1019.4	1168.9	1222.8
67.5°	690.4	765.7	939.2	1099.5	1158.2
70°	580.3	679.6	871.0	1028.9	1090.0
72.5°	498.9	598.2	798.0	954.8	1009.8
75°	398.4	519.3	729.8	886.6	934.4
77.5°	314.7	445.1	659.2	835.1	883.0
80°	229.7	378.1	598.2	766.9	822.0
82.5°	156.7	315.9	542.0	703.5	756.2
85°	93.3	262.0	485.8	658.0	705.9
87.5°	40.7	214.2	434.3	592.2	641.3
90°	4.8	169.9	384.1	537.2	585.1
92.5°	1.2	136.4	339.8	488.2	534.8
95°	1.2	105.3	297.9	443.9	492.9
97.5°	1.2	81.4	256.0	398.4	445.1
100°	1.2	62.2	221.3	350.6	400.8
102.5°	1.2	46.7	187.8	311.1	354.1
105°	1.2	34.7	161.5	274.0	312.3
107.5°	1.2	25.1	135.2	239.3	277.6
110°	1.2	17.9	113.7	207.0	245.3



TEST NUMBER: P893224

CATALOG NUMBER: 4MB-10HL-RND-UNV-L950

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	13.2	92.1	178.3	210.6
115°	1.2	8.4	75.4	150.8	180.7
117.5°	1.2	6.0	59.8	126.8	155.5
120°	1.2	4.8	47.9	105.3	130.4
122.5°	1.2	3.6	37.1	86.1	110.1
125°	1.2	2.4	27.5	69.4	88.5
127.5°	1.2	2.4	20.3	55.0	71.8
130°	1.2	1.2	14.4	41.9	56.2
132.5°	1.2	1.2	9.6	31.1	41.9
135°	2.4	1.2	7.2	22.7	31.1
137.5°	2.4	1.2	4.8	15.6	21.5
140°	2.4	1.2	2.4	9.6	13.2
142.5°	2.4	1.2	1.2	4.8	7.2
145°	2.4	1.2	0.0	2.4	3.6
147.5°	2.4	1.2	0.0	1.2	1.2
150°	2.4	1.2	0.0	0.0	0.0
152.5°	2.4	1.2	0.0	0.0	0.0
155°	2.4	2.4	0.0	0.0	0.0
157.5°	2.4	2.4	0.0	0.0	0.0
160°	2.4	2.4	0.0	0.0	0.0
162.5°	2.4	2.4	0.0	0.0	0.0
165°	3.6	2.4	0.0	0.0	0.0
167.5°	3.6	2.4	0.0	0.0	0.0
170°	3.6	2.4	0.0	0.0	0.0
172.5°	3.6	2.4	0.0	0.0	0.0
175°	3.6	2.4	0.0	0.0	0.0
177.5°	3.6	2.4	0.0	0.0	0.0
180°	1.2	1.2	1.2	1.2	1.2



TEST NUMBER: P893224
 CATALOG NUMBER: 4MB-10HL-RND-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	20.39	21.92	20.86	22.38	22.86	21.96	23.50	22.43	23.95	24.44
	3H	22.15	23.55	22.63	24.02	24.54	24.55	25.95	25.03	26.41	26.94
	4H	22.81	24.14	23.31	24.62	25.16	25.80	27.14	26.31	27.62	28.15
	6H	23.29	24.53	23.80	25.02	25.57	27.19	28.43	27.70	28.92	29.48
	8H	23.43	24.62	23.96	25.14	25.70	27.92	29.10	28.44	29.62	30.18
	12H	23.53	24.67	24.07	25.19	25.78	28.76	29.90	29.29	30.41	31.00
4H	2H	21.34	22.67	21.85	23.16	23.69	22.53	23.86	23.03	24.35	24.88
	3H	23.38	24.52	23.90	25.04	25.60	25.40	26.54	25.91	27.06	27.62
	4H	24.20	25.24	24.73	25.77	26.36	26.88	27.92	27.41	28.46	29.05
	6H	24.85	25.77	25.40	26.33	26.93	28.50	29.42	29.05	29.98	30.59
	8H	25.07	25.94	25.63	26.50	27.12	29.35	30.22	29.91	30.78	31.40
	12H	25.24	26.03	25.82	26.62	27.24	30.35	31.13	30.93	31.72	32.35
8H	4H	25.04	25.91	25.60	26.47	27.09	27.25	28.12	27.81	28.68	29.30
	6H	25.97	26.70	26.56	27.31	27.93	29.13	29.86	29.72	30.47	31.09
	8H	26.35	27.02	26.95	27.63	28.27	30.19	30.85	30.79	31.47	32.10
	12H	26.67	27.27	27.28	27.87	28.57	31.44	32.04	32.05	32.64	33.34
12H	4H	25.31	26.09	25.89	26.68	27.31	27.29	28.08	27.87	28.67	29.29
	6H	26.39	27.06	27.00	27.67	28.31	29.24	29.90	29.84	30.52	31.16
	8H	26.93	27.53	27.54	28.13	28.83	30.41	31.01	31.02	31.61	32.31