

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: P893752

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

Issue Date: 11/11/2024

**Test Information**

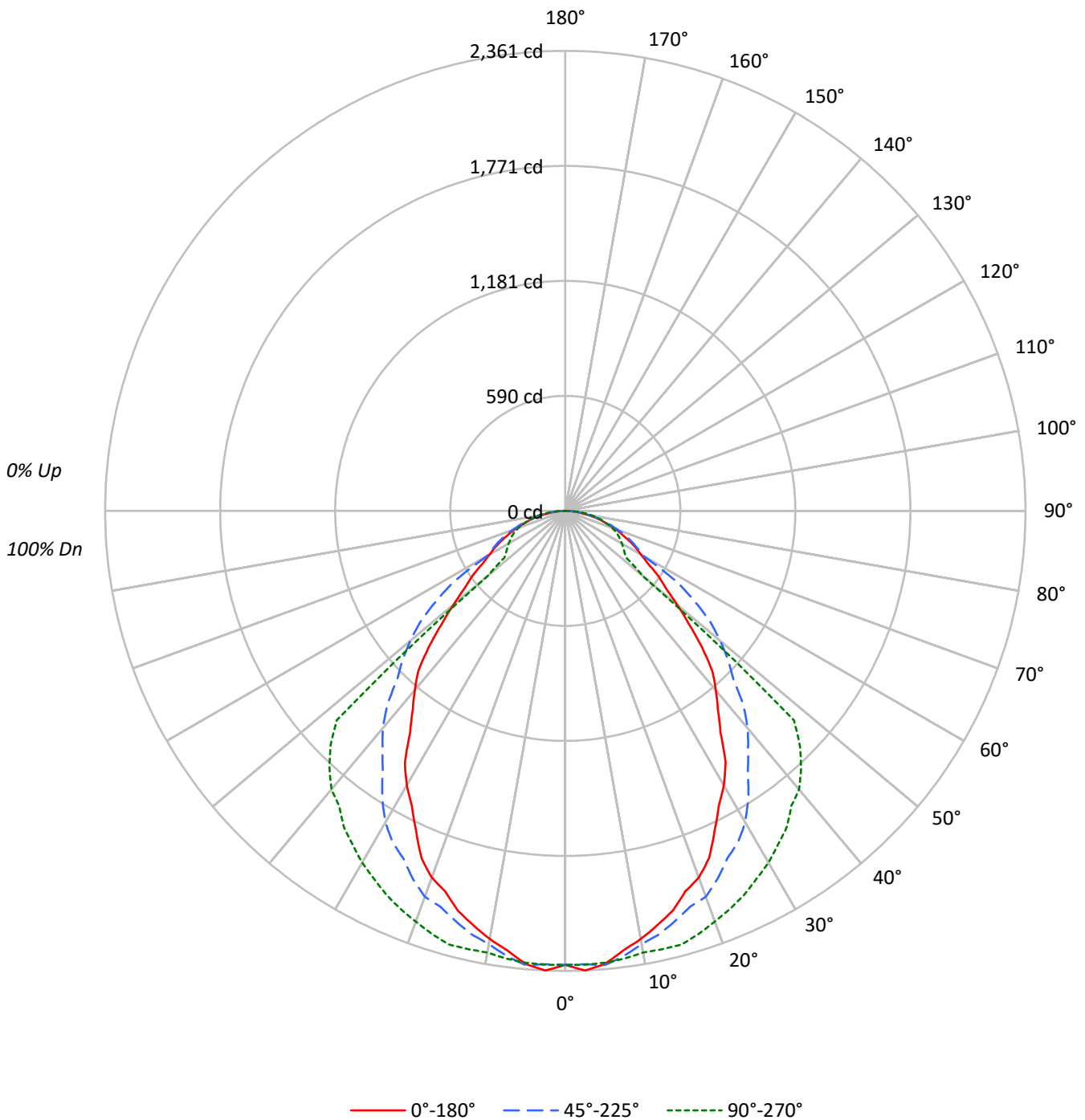
Test Method: LM-79-2019  
Report Number: P893752  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 4MB-6SL-LVR-UNV-L950  
Description: 6000 Lumen 4FT MICROBAY LINEAR BAY with LOUVER, 90CRI, 5000K CCT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4972.0 lumens  
Efficiency: N/A  
Efficacy: 112.0 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): 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

TEST NUMBER: P893752  
CATALOG NUMBER: 4MB-6SL-LVR-UNV-L950

### Luminous Intensity Polar Plot





TEST NUMBER: P893752

CATALOG NUMBER: 4MB-6SL-LVR-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	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°	16577	16577	16577
5°	16666	16708	16623
10°	16119	16308	16626
15°	15654	16049	16969
20°	15164	15956	16983
25°	14228	15442	17058
30°	13364	15163	17128
35°	12052	14180	17208
40°	11162	13528	17329
45°	9986	12261	17134
50°	8285	11485	5756
55°	7218	10081	4606
60°	6384	6570	4776
65°	6069	6391	5069
70°	5694	6039	5346
75°	5300	5690	5495
80°	4827	5363	5753
85°	4278	4563	6221

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 17134 cd/sqm



TEST NUMBER: P893752  
 CATALOG NUMBER: 4MB-6SL-LVR-UNV-L950

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	221.0	4.4
10°-20°	621.7	12.5
20°-30°	914.5	18.4
30°-40°	1045.8	21.0
40°-50°	990.3	19.9
50°-60°	545.6	11.0
60°-70°	350.3	7.0
70°-80°	216.2	4.3
80°-90°	66.6	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°	1757.2	35.3
0°-40°	2803.0	56.4
0°-60°	4339.0	87.3
0°-90°	4972.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4972.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2330	2330	2330	2330	2330	
5°	2334	2352	2339	2339	2328	219
15°	2125	2151	2179	2293	2304	597
25°	1812	1893	1967	2096	2173	835
35°	1388	1506	1633	1869	1981	877
45°	992	1086	1218	1564	1703	759
55°	582	610	813	419	371	520
65°	360	372	380	338	301	357
75°	193	196	207	218	200	205
85°	52	52	56	64	76	58
90°	0	0	0	0	0	



TEST NUMBER: P893752

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

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2329.9	2329.9	2329.9	2329.9	2329.9
2.5°	2360.8	2366.8	2328.7	2327.5	2331.1
5°	2333.5	2352.5	2339.4	2339.4	2327.5
7.5°	2275.2	2307.3	2303.7	2331.1	2318.0
10°	2231.1	2257.3	2257.3	2328.7	2301.3
12.5°	2178.8	2208.5	2225.2	2300.1	2303.7
15°	2125.2	2151.4	2178.8	2293.0	2303.7
17.5°	2047.9	2095.5	2130.0	2241.8	2276.3
20°	2002.7	2031.2	2107.4	2197.8	2243.0
22.5°	1927.7	1969.3	2043.1	2144.3	2210.9
25°	1812.3	1893.2	1967.0	2095.5	2172.8
27.5°	1705.2	1765.9	1918.2	2053.8	2127.6
30°	1626.6	1674.2	1845.6	1993.1	2084.8
32.5°	1531.4	1608.8	1748.0	1933.6	2031.2
35°	1387.5	1506.5	1632.6	1869.4	1981.2
37.5°	1286.3	1368.4	1539.8	1802.7	1906.3
40°	1201.8	1276.8	1456.5	1719.5	1865.8
42.5°	1117.3	1178.0	1351.8	1657.6	1790.8
45°	992.4	1086.4	1218.5	1563.6	1702.8
47.5°	861.5	961.5	1131.6	1483.8	1590.9
50°	748.5	828.2	1037.6	1325.6	520.0
52.5°	649.7	723.5	937.7	479.5	392.7
55°	581.9	610.4	812.7	418.9	371.3
57.5°	501.0	547.4	681.8	398.6	352.2
60°	448.6	468.8	461.7	378.4	335.6
62.5°	407.0	421.2	418.9	358.2	316.5
65°	360.5	372.4	379.6	337.9	301.1
67.5°	314.1	324.9	335.6	313.0	279.6
70°	273.7	280.8	290.3	283.2	257.0
72.5°	232.0	240.4	246.3	252.3	227.3
75°	192.8	196.3	207.0	217.8	199.9
77.5°	157.1	160.6	167.8	179.7	170.2
80°	117.8	121.4	130.9	140.4	140.4
82.5°	83.3	85.7	91.6	104.7	110.7
85°	52.4	52.4	55.9	64.3	76.2
87.5°	20.2	20.2	23.8	28.6	38.1
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P893752  
 CATALOG NUMBER: 4MB-6SL-LVR-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	17.71	19.19	18.07	19.50	19.82	15.51	16.99	15.87	17.30	17.62
	3H	19.23	20.56	19.61	20.89	21.25	17.84	19.17	18.22	19.49	19.86
	4H	19.82	21.07	20.23	21.42	21.80	18.79	20.03	19.19	20.38	20.76
	6H	20.28	21.43	20.69	21.80	22.19	19.57	20.72	19.99	21.09	21.48
	8H	20.43	21.52	20.85	21.91	22.31	19.89	20.98	20.31	21.37	21.77
	12H	20.52	21.57	20.95	21.95	22.38	20.13	21.18	20.56	21.56	21.99
4H	2H	18.26	19.50	18.66	19.85	20.23	16.61	17.86	17.01	18.20	18.58
	3H	20.03	21.06	20.44	21.46	21.86	19.06	20.09	19.47	20.49	20.89
	4H	20.75	21.67	21.18	22.09	22.53	20.12	21.05	20.56	21.47	21.91
	6H	21.33	22.14	21.79	22.58	23.04	21.01	21.82	21.47	22.26	22.72
	8H	21.52	22.28	21.99	22.72	23.19	21.36	22.12	21.83	22.56	23.03
	12H	21.66	22.33	22.14	22.81	23.28	21.65	22.33	22.14	22.80	23.28
8H	4H	21.06	21.81	21.52	22.25	22.72	20.51	21.26	20.98	21.71	22.18
	6H	21.77	22.39	22.26	22.88	23.36	21.55	22.17	22.04	22.66	23.14
	8H	22.03	22.59	22.54	23.10	23.59	21.99	22.55	22.51	23.06	23.55
	12H	22.24	22.74	22.75	23.23	23.79	22.38	22.88	22.89	23.37	23.93
12H	4H	21.09	21.76	21.57	22.24	22.72	20.55	21.22	21.03	21.70	22.17
	6H	21.83	22.39	22.35	22.90	23.39	21.61	22.17	22.13	22.68	23.17
	8H	22.15	22.65	22.66	23.14	23.71	22.12	22.62	22.63	23.11	23.68