

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: P893765

Luminaire Tested: 4MB-6SL-LVRF-UNV-L930

Issue Date: 11/11/2024

**Test Information**

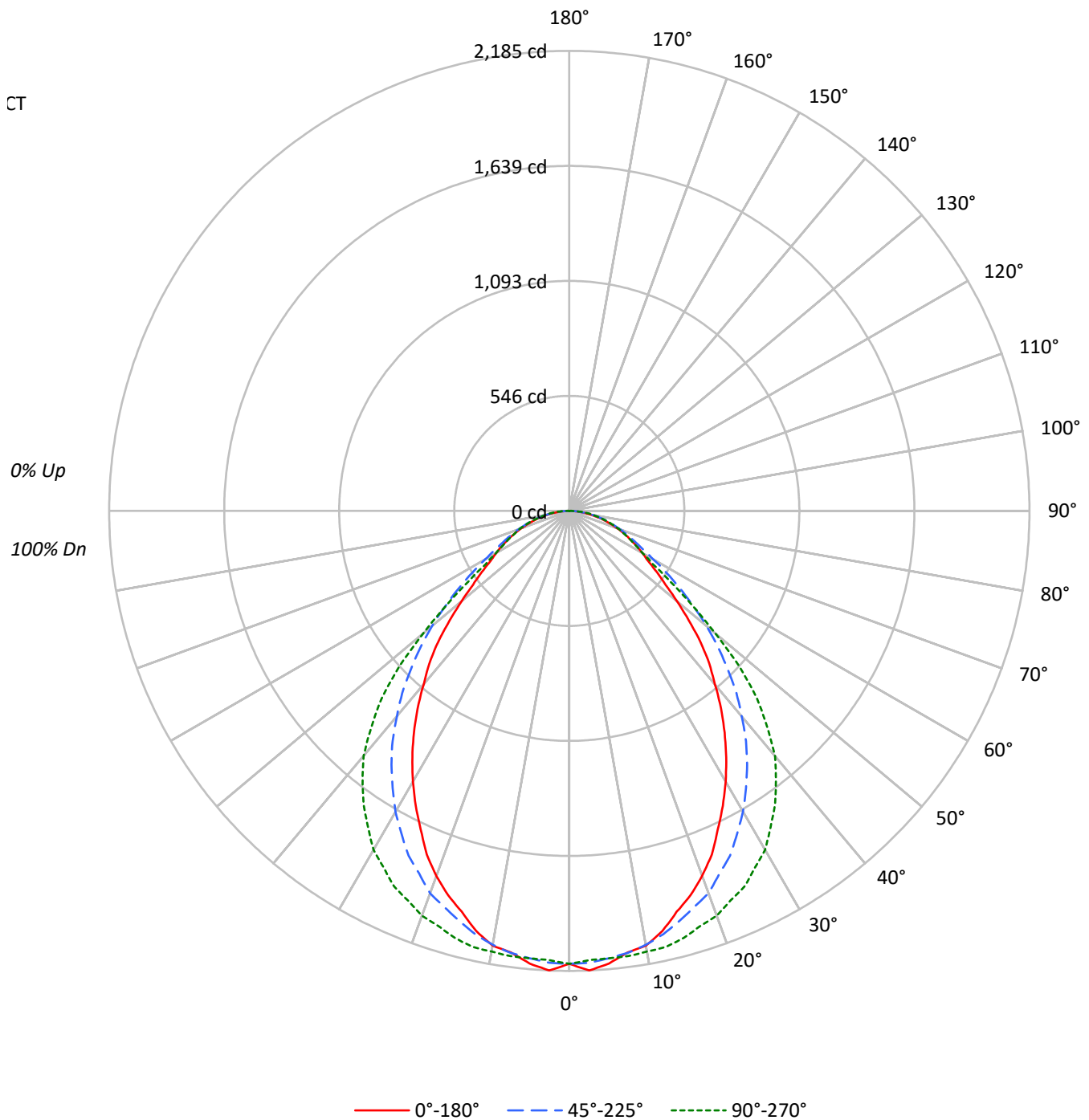
Test Method: LM-79-2019  
Report Number: P893765  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 4MB-6SL-LVRF-UNV-L930  
Description: 6000 Lumen 4FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 90CRI, 3000K C  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4471.0 lumens  
Efficiency: N/A  
Efficacy: 100.7 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.27 / 1.23  
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 (A<sub>in</sub>): 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: P893765  
CATALOG NUMBER: 4MB-6SL-LVRF-UNV-L930

### Luminous Intensity Polar Plot





TEST NUMBER: P893765

CATALOG NUMBER: 4MB-6SL-LVRF-UNV-L930

**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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	100	
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	89	87	
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	77	75	
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	71	67	67	65	
4	87	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59	59	57	
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	56	52	52	50	
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	47	45	
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	42	40	
8	65	52	44	39	63	52	44	39	50	44	39	49	43	38	48	42	38	38	36	
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	35	33	
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	32	30	

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	15306	15306	15306
5°	15413	15236	15236
10°	15146	15122	15356
15°	14519	14857	15467
20°	13967	14637	15492
25°	13103	14184	15457
30°	12196	13557	15275
35°	11165	12787	14788
40°	9996	11825	14110
45°	8870	10705	12686
50°	7380	9423	10005
55°	6287	7938	7272
60°	5699	6559	5746
65°	5367	5744	5349
70°	5051	5330	5213
75°	4706	5075	4981
80°	4310	4675	4814
85°	3747	4106	5388

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 12686 cd/sqm



TEST NUMBER: P893765  
 CATALOG NUMBER: 4MB-6SL-LVRF-UNV-L930

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	203.7	4.6
10°-20°	573.1	12.8
20°-30°	832.3	18.6
30°-40°	926.8	20.7
40°-50°	818.8	18.3
50°-60°	537.3	12.0
60°-70°	329.0	7.4
70°-80°	191.5	4.3
80°-90°	58.6	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°	1609.1	36.0
0°-40°	2535.9	56.7
0°-60°	3891.9	87.0
0°-90°	4471.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4471.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2151	2151	2151	2151	2151	
5°	2158	2159	2133	2155	2133	203
15°	1971	1994	2017	2096	2100	556
25°	1669	1709	1807	1922	1969	768
35°	1285	1355	1472	1628	1703	802
45°	882	935	1064	1207	1261	674
55°	507	543	640	634	586	460
65°	319	324	341	331	318	317
75°	171	173	185	188	181	182
85°	46	48	50	57	66	52
90°	0	0	0	0	0	



TEST NUMBER: P893765

CATALOG NUMBER: 4MB-6SL-LVRF-UNV-L930

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2151.2	2151.2	2151.2	2151.2	2151.2
2.5°	2184.8	2158.0	2147.9	2158.0	2135.6
5°	2158.0	2159.1	2133.3	2154.6	2133.3
7.5°	2115.4	2130.0	2117.7	2150.1	2133.3
10°	2096.4	2097.5	2093.1	2126.6	2125.5
12.5°	2043.8	2047.2	2059.5	2109.8	2121.0
15°	1971.1	1993.5	2017.0	2096.4	2099.8
17.5°	1914.1	1940.9	1972.2	2057.3	2067.3
20°	1844.7	1855.9	1933.1	2008.0	2046.1
22.5°	1767.5	1788.8	1863.7	1964.4	2002.5
25°	1669.1	1709.4	1806.7	1921.9	1968.9
27.5°	1578.5	1625.5	1726.1	1854.8	1909.6
30°	1484.5	1538.2	1650.1	1776.5	1859.3
32.5°	1387.2	1454.3	1560.6	1706.0	1778.7
35°	1285.4	1354.7	1472.2	1627.7	1702.6
37.5°	1183.6	1250.7	1378.2	1544.9	1612.0
40°	1076.2	1142.2	1273.1	1442.0	1519.2
42.5°	983.3	1040.4	1174.6	1318.9	1390.5
45°	881.5	935.2	1063.9	1207.1	1260.8
47.5°	769.7	832.3	957.6	1075.1	1096.3
50°	666.7	731.6	851.3	919.6	903.9
52.5°	576.1	630.9	740.6	769.7	732.7
55°	506.8	542.6	639.9	634.3	586.2
57.5°	443.0	465.4	548.2	516.8	471.0
60°	400.5	410.6	460.9	431.8	403.8
62.5°	360.2	364.7	391.5	375.9	354.6
65°	318.8	324.4	341.2	331.1	317.7
67.5°	280.8	283.0	298.7	296.5	279.7
70°	242.8	246.1	256.2	260.7	250.6
72.5°	205.8	209.2	219.3	223.7	214.8
75°	171.2	173.4	184.6	187.9	181.2
77.5°	137.6	142.1	148.8	154.4	146.5
80°	105.2	107.4	114.1	120.8	117.5
82.5°	73.8	77.2	81.7	90.6	92.9
85°	45.9	48.1	50.3	57.1	66.0
87.5°	17.9	19.0	22.4	24.6	32.4
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P893765  
 CATALOG NUMBER: 4MB-6SL-LVRF-UNV-L930

**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	17.01	18.49	17.37	18.80	19.12	17.66	19.14	18.03	19.45	19.77
	3H	18.61	19.94	18.99	20.26	20.63	19.10	20.42	19.47	20.75	21.11
	4H	19.23	20.47	19.63	20.82	21.20	19.70	20.94	20.10	21.29	21.67
	6H	19.70	20.84	20.11	21.21	21.60	20.19	21.33	20.60	21.70	22.09
	8H	19.85	20.94	20.28	21.33	21.73	20.39	21.48	20.81	21.87	22.27
	12H	19.95	20.99	20.38	21.38	21.81	20.55	21.60	20.98	21.98	22.41
4H	2H	17.63	18.87	18.03	19.22	19.60	18.15	19.40	18.55	19.75	20.12
	3H	19.45	20.48	19.86	20.88	21.28	19.85	20.88	20.26	21.28	21.68
	4H	20.19	21.12	20.62	21.53	21.97	20.60	21.53	21.04	21.95	22.39
	6H	20.79	21.59	21.25	22.04	22.50	21.24	22.04	21.70	22.49	22.95
	8H	20.98	21.74	21.45	22.18	22.65	21.49	22.25	21.96	22.69	23.16
	12H	21.13	21.80	21.61	22.28	22.75	21.72	22.39	22.20	22.87	23.34
8H	4H	20.51	21.26	20.97	21.71	22.17	20.87	21.63	21.34	22.07	22.54
	6H	21.23	21.85	21.73	22.35	22.83	21.65	22.27	22.15	22.76	23.24
	8H	21.50	22.07	22.02	22.58	23.06	21.99	22.55	22.51	23.07	23.55
	12H	21.72	22.22	22.23	22.71	23.28	22.31	22.81	22.82	23.30	23.87
12H	4H	20.54	21.21	21.03	21.69	22.17	20.89	21.57	21.38	22.05	22.52
	6H	21.30	21.86	21.81	22.37	22.86	21.70	22.26	22.21	22.77	23.26
	8H	21.63	22.13	22.14	22.62	23.18	22.10	22.60	22.61	23.09	23.66