

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: P893750

Luminaire Tested: 4MB-6SL-LVR-UNV-L935

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893750
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-L935
Description: 6000 Lumen 4FT MICROBAY LINEAR BAY with LOUVER, 90CRI, 3500K CCT
Light Source: -
Ballast/Driver: -

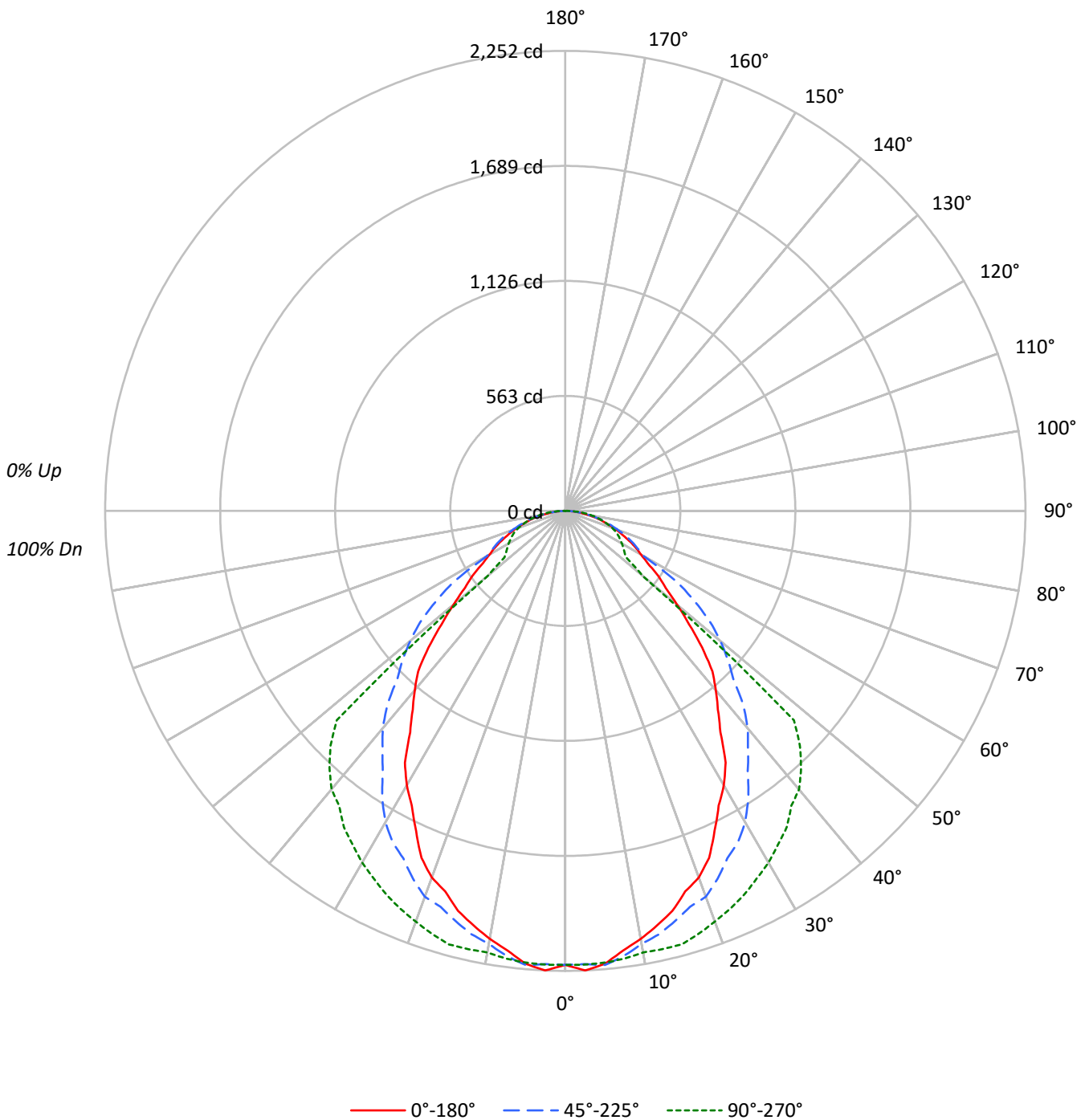
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4742.0 lumens
Efficiency: N/A
Efficacy: 106.8 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 (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	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°	15810	15810	15810
5°	15895	15936	15854
10°	15374	15554	15858
15°	14930	15307	16184
20°	14462	15218	16198
25°	13569	14728	16269
30°	12746	14461	16335
35°	11494	13525	16413
40°	10646	12902	16528
45°	9524	11693	16341
50°	7901	10954	5489
55°	6885	9615	4392
60°	6089	6265	4554
65°	5790	6094	4833
70°	5430	5760	5099
75°	5055	5429	5242
80°	4605	5114	5486
85°	4074	4351	5927

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 16341 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.8	4.4
10°-20°	592.9	12.5
20°-30°	872.2	18.4
30°-40°	997.5	21.0
40°-50°	944.5	19.9
50°-60°	520.4	11.0
60°-70°	334.1	7.0
70°-80°	206.2	4.3
80°-90°	63.5	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°	1675.9	35.3
0°-40°	2673.4	56.4
0°-60°	4138.2	87.3
0°-90°	4742.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4742.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2222	2222	2222	2222	2222	
5°	2226	2244	2231	2231	2220	209
15°	2027	2052	2078	2187	2197	569
25°	1728	1806	1876	1998	2072	796
35°	1323	1437	1557	1783	1890	836
45°	946	1036	1162	1491	1624	724
55°	555	582	775	400	354	496
65°	344	355	362	322	287	340
75°	184	187	198	208	191	196
85°	50	50	53	61	73	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2222.1	2222.1	2222.1	2222.1	2222.1
2.5°	2251.6	2257.3	2221.0	2219.8	2223.2
5°	2225.5	2243.7	2231.2	2231.2	2219.8
7.5°	2169.9	2200.5	2197.1	2223.2	2210.8
10°	2127.9	2152.9	2152.9	2221.0	2194.9
12.5°	2078.0	2106.4	2122.2	2193.7	2197.1
15°	2026.9	2051.9	2078.0	2186.9	2197.1
17.5°	1953.1	1998.5	2031.4	2138.1	2171.0
20°	1910.0	1937.3	2009.9	2096.1	2139.3
22.5°	1838.5	1878.2	1948.6	2045.1	2108.6
25°	1728.4	1805.6	1876.0	1998.5	2072.3
27.5°	1626.3	1684.2	1829.4	1958.8	2029.2
30°	1551.4	1596.8	1760.2	1900.9	1988.3
32.5°	1460.6	1534.4	1667.1	1844.2	1937.3
35°	1323.3	1436.8	1557.1	1782.9	1889.6
37.5°	1226.8	1305.1	1468.5	1719.4	1818.1
40°	1146.2	1217.7	1389.1	1639.9	1779.5
42.5°	1065.7	1123.5	1289.2	1580.9	1708.0
45°	946.5	1036.2	1162.1	1491.2	1624.0
47.5°	821.7	917.0	1079.3	1415.2	1517.3
50°	713.8	789.9	989.6	1264.3	495.9
52.5°	619.6	690.0	894.3	457.4	374.5
55°	555.0	582.2	775.1	399.5	354.1
57.5°	477.8	522.0	650.3	380.2	335.9
60°	427.9	447.1	440.3	360.9	320.0
62.5°	388.1	401.8	399.5	341.6	301.9
65°	343.9	355.2	362.0	322.3	287.1
67.5°	299.6	309.8	320.0	298.5	266.7
70°	261.0	267.8	276.9	270.1	245.1
72.5°	221.3	229.2	234.9	240.6	216.8
75°	183.9	187.3	197.5	207.7	190.7
77.5°	149.8	153.2	160.0	171.4	162.3
80°	112.4	115.8	124.8	133.9	133.9
82.5°	79.4	81.7	87.4	99.9	105.5
85°	49.9	49.9	53.3	61.3	72.6
87.5°	19.3	19.3	22.7	27.2	36.3
90°	0.0	0.0	0.0	0.0	0.0



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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	17.54	19.02	17.91	19.34	19.65	15.34	16.83	15.71	17.14	17.45
	3H	19.07	20.39	19.45	20.72	21.08	17.67	19.00	18.05	19.33	19.69
	4H	19.66	20.90	20.06	21.25	21.63	18.62	19.87	19.03	20.22	20.60
	6H	20.12	21.26	20.53	21.63	22.02	19.41	20.56	19.82	20.92	21.32
	8H	20.26	21.35	20.69	21.74	22.14	19.72	20.81	20.15	21.20	21.60
	12H	20.36	21.40	20.79	21.78	22.21	19.97	21.01	20.40	21.40	21.83
4H	2H	18.09	19.33	18.49	19.68	20.06	16.45	17.69	16.85	18.04	18.42
	3H	19.86	20.89	20.27	21.29	21.69	18.89	19.92	19.30	20.32	20.72
	4H	20.58	21.51	21.02	21.93	22.37	19.96	20.89	20.39	21.30	21.74
	6H	21.17	21.97	21.63	22.42	22.88	20.85	21.65	21.31	22.10	22.56
	8H	21.36	22.11	21.82	22.56	23.02	21.20	21.95	21.66	22.40	22.86
	12H	21.50	22.17	21.98	22.65	23.12	21.49	22.16	21.97	22.64	23.11
8H	4H	20.89	21.64	21.36	22.09	22.56	20.35	21.10	20.81	21.54	22.01
	6H	21.60	22.23	22.10	22.72	23.20	21.38	22.01	21.88	22.50	22.98
	8H	21.86	22.43	22.38	22.94	23.43	21.83	22.39	22.34	22.90	23.39
	12H	22.07	22.57	22.58	23.06	23.63	22.21	22.71	22.72	23.20	23.77
12H	4H	20.93	21.60	21.41	22.08	22.55	20.38	21.05	20.86	21.53	22.01
	6H	21.67	22.23	22.18	22.74	23.23	21.45	22.01	21.96	22.52	23.01
	8H	21.99	22.49	22.50	22.98	23.54	21.95	22.45	22.46	22.95	23.51