

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: P893751

Luminaire Tested: 4MB-6SL-LVR-UNV-L940

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893751
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-L940
Description: 6000 Lumen 4FT MICROBAY LINEAR BAY with LOUVER, 90CRI, 4000K CCT
Light Source: -
Ballast/Driver: -

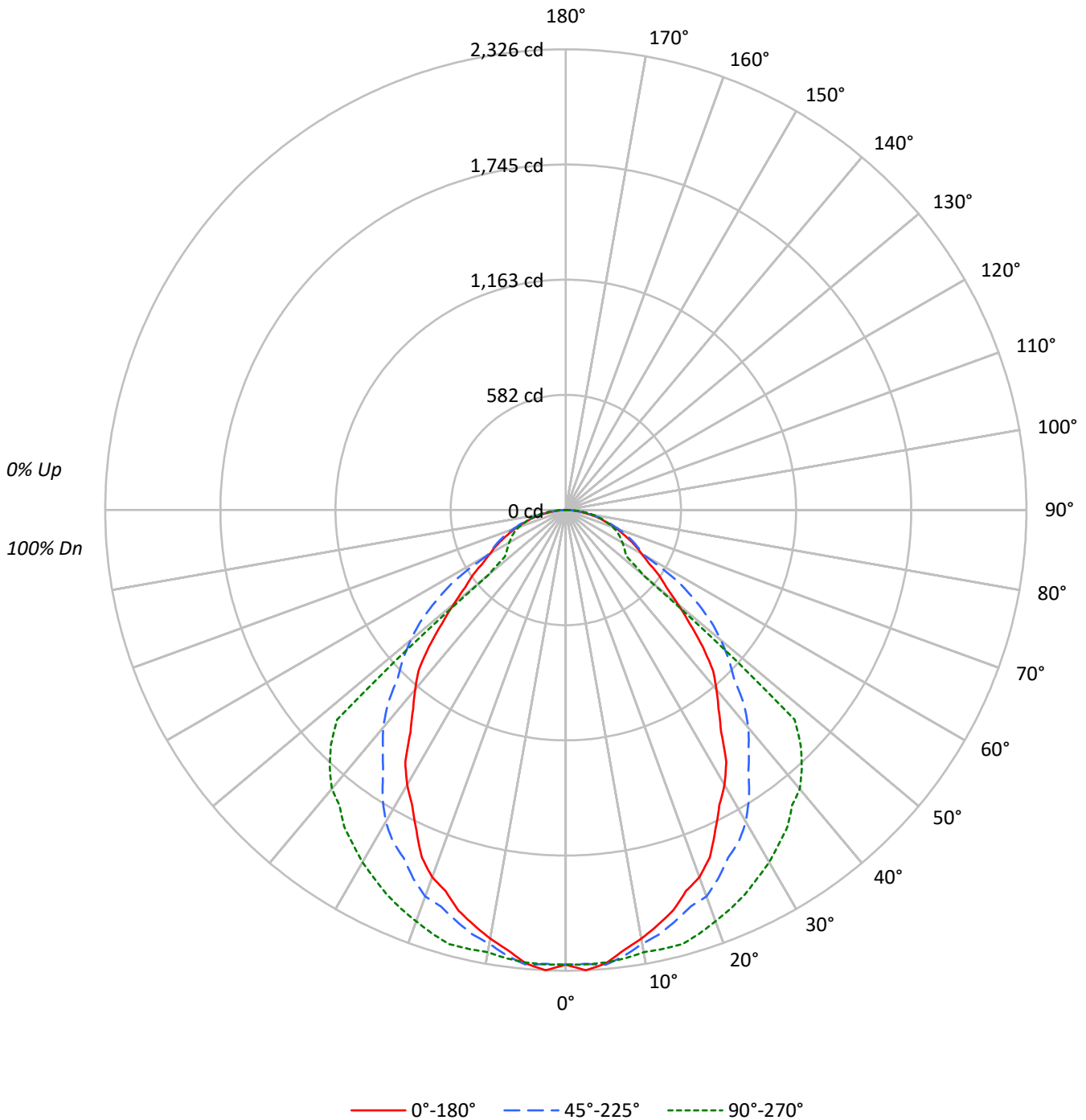
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4898.0 lumens
Efficiency: N/A
Efficacy: 110.3 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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CATALOG NUMBER: 4MB-6SL-LVR-UNV-L940

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°	16330	16330	16330
5°	16418	16460	16376
10°	15879	16066	16379
15°	15421	15810	16716
20°	14937	15719	16730
25°	14016	15212	16804
30°	13165	14937	16873
35°	11872	13969	16952
40°	10996	13326	17071
45°	9837	12079	16878
50°	8161	11315	5671
55°	7110	9931	4536
60°	6288	6472	4704
65°	5980	6295	4993
70°	5608	5950	5267
75°	5220	5608	5413
80°	4753	5282	5667
85°	4212	4498	6123

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 16878 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.7	4.4
10°-20°	612.4	12.5
20°-30°	900.9	18.4
30°-40°	1030.3	21.0
40°-50°	975.6	19.9
50°-60°	537.5	11.0
60°-70°	345.1	7.0
70°-80°	213.0	4.3
80°-90°	65.6	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°	1731.0	35.3
0°-40°	2761.3	56.4
0°-60°	4274.4	87.3
0°-90°	4898.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4898.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2295	2295	2295	2295	2295	
5°	2299	2318	2305	2305	2293	216
15°	2094	2119	2146	2259	2269	588
25°	1785	1865	1938	2064	2140	822
35°	1367	1484	1608	1842	1952	864
45°	978	1070	1200	1540	1677	748
55°	573	601	801	413	366	513
65°	355	367	374	333	297	352
75°	190	193	204	214	197	202
85°	52	52	55	63	75	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2295.2	2295.2	2295.2	2295.2	2295.2
2.5°	2325.7	2331.5	2294.0	2292.9	2296.4
5°	2298.7	2317.5	2304.6	2304.6	2292.9
7.5°	2241.3	2272.9	2269.4	2296.4	2283.5
10°	2197.9	2223.7	2223.7	2294.0	2267.1
12.5°	2146.3	2175.6	2192.1	2265.9	2269.4
15°	2093.6	2119.4	2146.3	2258.9	2269.4
17.5°	2017.4	2064.3	2098.3	2208.5	2242.5
20°	1972.8	2001.0	2076.0	2165.1	2209.6
22.5°	1899.0	1940.0	2012.7	2112.3	2178.0
25°	1785.3	1865.0	1937.7	2064.3	2140.5
27.5°	1679.8	1739.6	1889.6	2023.3	2095.9
30°	1602.4	1649.3	1818.1	1963.5	2053.7
32.5°	1508.6	1584.8	1722.0	1904.9	2001.0
35°	1366.8	1484.0	1608.3	1841.6	1951.7
37.5°	1267.2	1348.1	1516.9	1775.9	1877.9
40°	1183.9	1257.8	1434.8	1693.9	1838.0
42.5°	1100.7	1160.5	1331.6	1632.9	1764.2
45°	977.6	1070.2	1200.4	1540.3	1677.4
47.5°	848.7	947.2	1114.8	1461.8	1567.3
50°	737.3	815.9	1022.2	1305.9	512.3
52.5°	640.0	712.7	923.7	472.4	386.8
55°	573.2	601.3	800.6	412.6	365.7
57.5°	493.5	539.2	671.7	392.7	347.0
60°	441.9	461.9	454.8	372.8	330.6
62.5°	400.9	415.0	412.6	352.8	311.8
65°	355.2	366.9	373.9	332.9	296.6
67.5°	309.5	320.0	330.6	308.3	275.5
70°	269.6	276.6	286.0	279.0	253.2
72.5°	228.6	236.8	242.6	248.5	223.9
75°	189.9	193.4	204.0	214.5	196.9
77.5°	154.7	158.2	165.3	177.0	167.6
80°	116.0	119.6	128.9	138.3	138.3
82.5°	82.1	84.4	90.3	103.2	109.0
85°	51.6	51.6	55.1	63.3	75.0
87.5°	19.9	19.9	23.4	28.1	37.5
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	17.65	19.14	18.02	19.45	19.76	15.46	16.94	15.82	17.25	17.57
	3H	19.18	20.51	19.56	20.83	21.20	17.79	19.11	18.17	19.44	19.80
	4H	19.77	21.02	20.17	21.36	21.74	18.74	19.98	19.14	20.33	20.71
	6H	20.23	21.38	20.64	21.74	22.14	19.52	20.67	19.93	21.04	21.43
	8H	20.37	21.47	20.80	21.86	22.26	19.83	20.92	20.26	21.31	21.72
	12H	20.47	21.52	20.90	21.90	22.33	20.08	21.13	20.51	21.51	21.94
4H	2H	18.20	19.45	18.60	19.80	20.18	16.56	17.80	16.96	18.15	18.53
	3H	19.98	21.01	20.39	21.41	21.81	19.01	20.03	19.42	20.44	20.84
	4H	20.70	21.62	21.13	22.04	22.48	20.07	21.00	20.51	21.41	21.85
	6H	21.28	22.09	21.74	22.53	22.99	20.96	21.77	21.42	22.21	22.67
	8H	21.47	22.22	21.93	22.67	23.14	21.31	22.06	21.78	22.51	22.98
	12H	21.61	22.28	22.09	22.76	23.23	21.60	22.27	22.08	22.75	23.22
8H	4H	21.00	21.76	21.47	22.20	22.67	20.46	21.21	20.92	21.66	22.12
	6H	21.71	22.34	22.21	22.83	23.31	21.49	22.12	21.99	22.61	23.09
	8H	21.98	22.54	22.49	23.05	23.54	21.94	22.50	22.45	23.01	23.50
	12H	22.19	22.68	22.70	23.18	23.74	22.32	22.82	22.83	23.31	23.88
12H	4H	21.04	21.71	21.52	22.19	22.66	20.49	21.17	20.98	21.65	22.12
	6H	21.78	22.34	22.29	22.85	23.34	21.56	22.12	22.07	22.63	23.12
	8H	22.10	22.60	22.61	23.09	23.66	22.07	22.57	22.58	23.06	23.62