

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: P893759

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893759
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-26)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4MB-6SL-LVRA-UNV-L940
Description: 6000 Lumen 4FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 90CRI, 4000K CCT
Light Source: -
Ballast/Driver: -

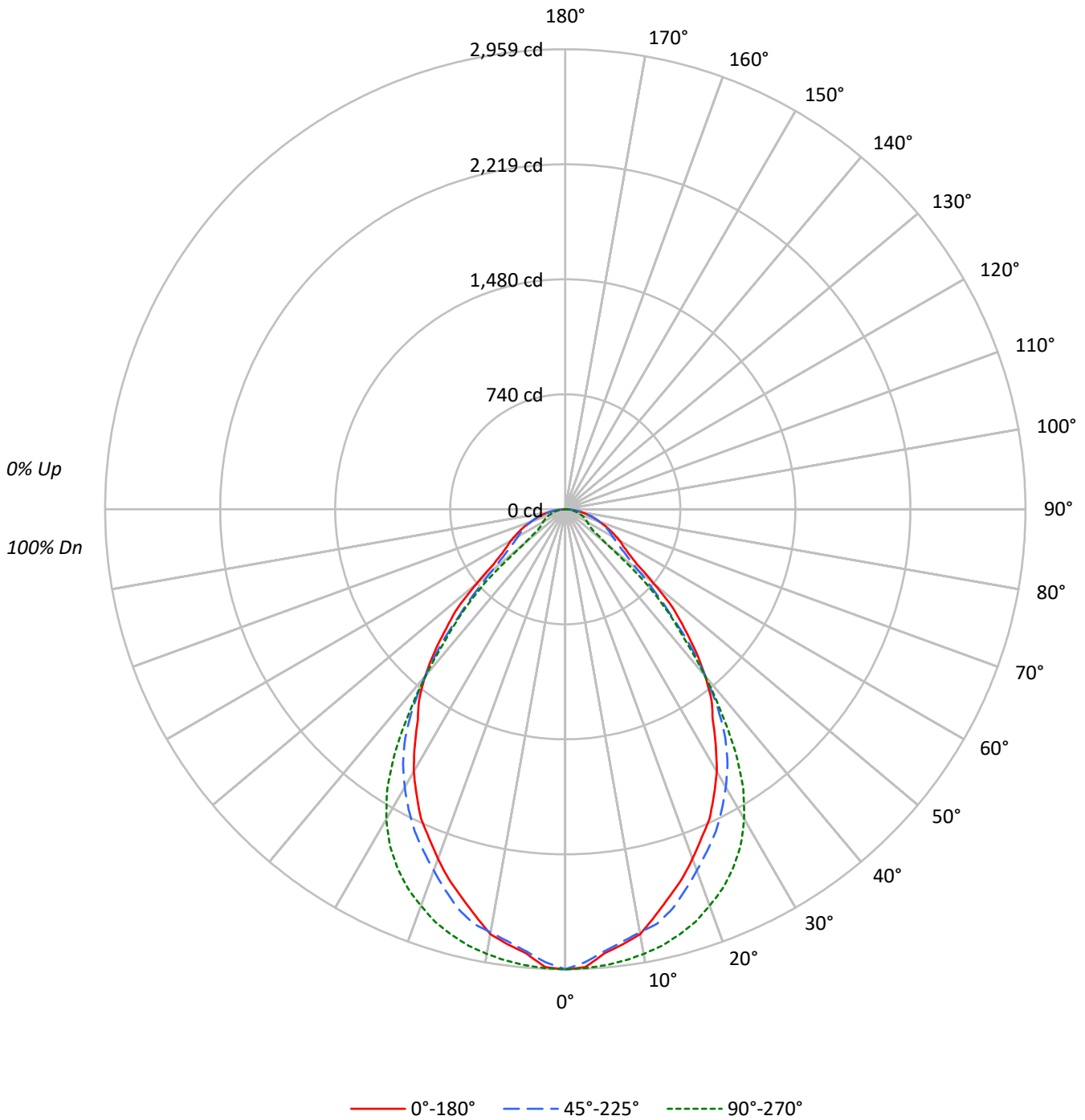
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4802.0 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.16 / 1.12
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: P893759
CATALOG NUMBER: 4MB-6SL-LVRA-UNV-L940

Luminous Intensity Polar Plot





TEST NUMBER: P893759

CATALOG NUMBER: 4MB-6SL-LVRA-UNV-L940

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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	93	92	90	88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	85	82	80	78
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	78	74	71	69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	71	67	63	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	66	61	57	55
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	61	56	52	50
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	52	47	43	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	49	44	40	38
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	46	40	37	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21052	21052	21052
5°	20484	20392	21029
10°	20049	19961	20980
15°	19014	19598	20862
20°	18113	18725	20543
25°	17230	17966	20019
30°	16007	16960	18902
35°	14353	15585	16579
40°	13004	13032	12961
45°	10873	9629	9392
50°	8213	6778	3841
55°	6177	5421	2421
60°	5740	4992	2334
65°	5340	4982	2337
70°	4887	4887	2301
75°	4632	4759	2221
80°	4282	4499	2282
85°	3739	3919	2490

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 11126 cd/sqm



TEST NUMBER: P893759
 CATALOG NUMBER: 4MB-6SL-LVRA-UNV-L940

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.3	5.7
10°-20°	753.1	15.7
20°-30°	1067.9	22.2
30°-40°	1100.1	22.9
40°-50°	768.4	16.0
50°-60°	368.7	7.7
60°-70°	258.7	5.4
70°-80°	161.7	3.4
80°-90°	50.0	1.0
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°	2094.3	43.6
0°-40°	3194.4	66.5
0°-60°	4331.5	90.2
0°-90°	4802.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4802.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2959	2959	2959	2959	2959	
5°	2868	2864	2855	2930	2944	271
15°	2581	2600	2661	2737	2832	727
25°	2195	2217	2288	2443	2550	1004
35°	1652	1698	1794	1832	1909	1041
45°	1081	1106	957	908	933	833
55°	498	474	437	280	195	467
65°	317	297	296	225	139	314
75°	168	166	173	150	81	177
85°	46	46	48	47	30	51
90°	0	0	0	0	0	



TEST NUMBER: P893759

CATALOG NUMBER: 4MB-6SL-LVRA-UNV-L940

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2958.8	2958.8	2958.8	2958.8	2958.8
2.5°	2947.3	2938.2	2916.1	2956.5	2953.5
5°	2868.0	2864.2	2855.1	2929.8	2944.3
7.5°	2823.1	2815.4	2804.7	2887.1	2927.5
10°	2775.0	2784.2	2762.8	2838.3	2903.9
12.5°	2675.9	2700.3	2729.3	2788.0	2874.9
15°	2581.3	2600.4	2660.6	2736.9	2832.2
17.5°	2492.9	2515.0	2566.8	2681.2	2782.6
20°	2392.2	2422.7	2473.0	2619.4	2713.2
22.5°	2288.5	2316.7	2380.0	2537.1	2641.6
25°	2194.7	2216.8	2288.5	2443.3	2550.0
27.5°	2070.4	2111.6	2179.4	2328.9	2441.0
30°	1948.4	1983.5	2064.3	2190.1	2300.7
32.5°	1801.2	1852.3	1941.5	2037.6	2129.9
35°	1652.5	1697.5	1794.3	1831.7	1908.7
37.5°	1544.2	1556.4	1611.3	1606.7	1650.2
40°	1400.1	1424.5	1403.1	1345.9	1395.5
42.5°	1244.5	1273.5	1187.3	1121.0	1138.5
45°	1080.6	1105.7	957.0	908.2	933.4
47.5°	938.7	936.4	771.7	738.9	703.9
50°	742.0	766.4	612.3	551.3	347.0
52.5°	579.6	588.7	504.8	352.3	228.0
55°	498.0	473.6	437.0	279.9	195.2
57.5°	442.3	411.8	387.4	260.0	178.4
60°	403.4	369.1	350.8	247.1	164.0
62.5°	359.2	332.5	325.6	235.6	151.0
65°	317.2	296.6	295.9	225.0	138.8
67.5°	275.3	263.9	266.9	212.0	125.1
70°	234.9	232.6	234.9	195.2	110.6
72.5°	200.6	198.3	204.4	173.9	94.6
75°	168.5	166.2	173.1	149.5	80.8
77.5°	134.2	135.7	140.3	124.3	67.9
80°	104.5	104.5	109.8	97.6	55.7
82.5°	74.7	75.5	78.5	71.7	43.5
85°	45.8	45.8	48.0	47.3	30.5
87.5°	15.3	17.5	20.6	22.1	15.3
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P893759
 CATALOG NUMBER: 4MB-6SL-LVRA-UNV-L940

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	16.23	17.59	16.60	17.90	18.21	12.56	13.92	12.93	14.23	14.55
	3H	17.97	19.18	18.35	19.51	19.87	14.54	15.75	14.92	16.08	16.44
	4H	18.64	19.77	19.05	20.12	20.50	15.25	16.37	15.65	16.72	17.11
	6H	19.15	20.19	19.56	20.56	20.95	15.77	16.81	16.18	17.18	17.57
	8H	19.32	20.31	19.75	20.70	21.10	15.95	16.94	16.38	17.33	17.73
	12H	19.43	20.37	19.86	20.76	21.19	16.09	17.04	16.53	17.42	17.85
4H	2H	16.76	17.89	17.17	18.24	18.62	14.19	15.31	14.59	15.66	16.05
	3H	18.74	19.67	19.15	20.07	20.48	16.37	17.30	16.78	17.70	18.10
	4H	19.54	20.38	19.98	20.80	21.24	17.25	18.08	17.68	18.50	18.94
	6H	20.19	20.91	20.65	21.36	21.82	17.89	18.61	18.35	19.06	19.52
	8H	20.41	21.08	20.87	21.53	22.00	18.10	18.77	18.57	19.22	19.69
	12H	20.56	21.16	21.05	21.64	22.12	18.26	18.86	18.74	19.34	19.81
8H	4H	19.83	20.50	20.29	20.95	21.42	17.89	18.57	18.36	19.02	19.49
	6H	20.61	21.17	21.11	21.66	22.14	18.76	19.31	19.26	19.81	20.29
	8H	20.91	21.41	21.43	21.93	22.42	19.08	19.58	19.60	20.10	20.59
	12H	21.15	21.59	21.66	22.08	22.65	19.35	19.79	19.86	20.28	20.85
12H	4H	19.84	20.44	20.33	20.93	21.40	17.97	18.57	18.45	19.05	19.52
	6H	20.66	21.16	21.18	21.68	22.17	18.89	19.39	19.41	19.91	20.40
	8H	21.03	21.47	21.54	21.96	22.53	19.31	19.75	19.82	20.24	20.81