

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: P893760

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893760
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-L950
Description: 6000 Lumen 4FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 90CRI, 5000K CCT
Light Source: -
Ballast/Driver: -

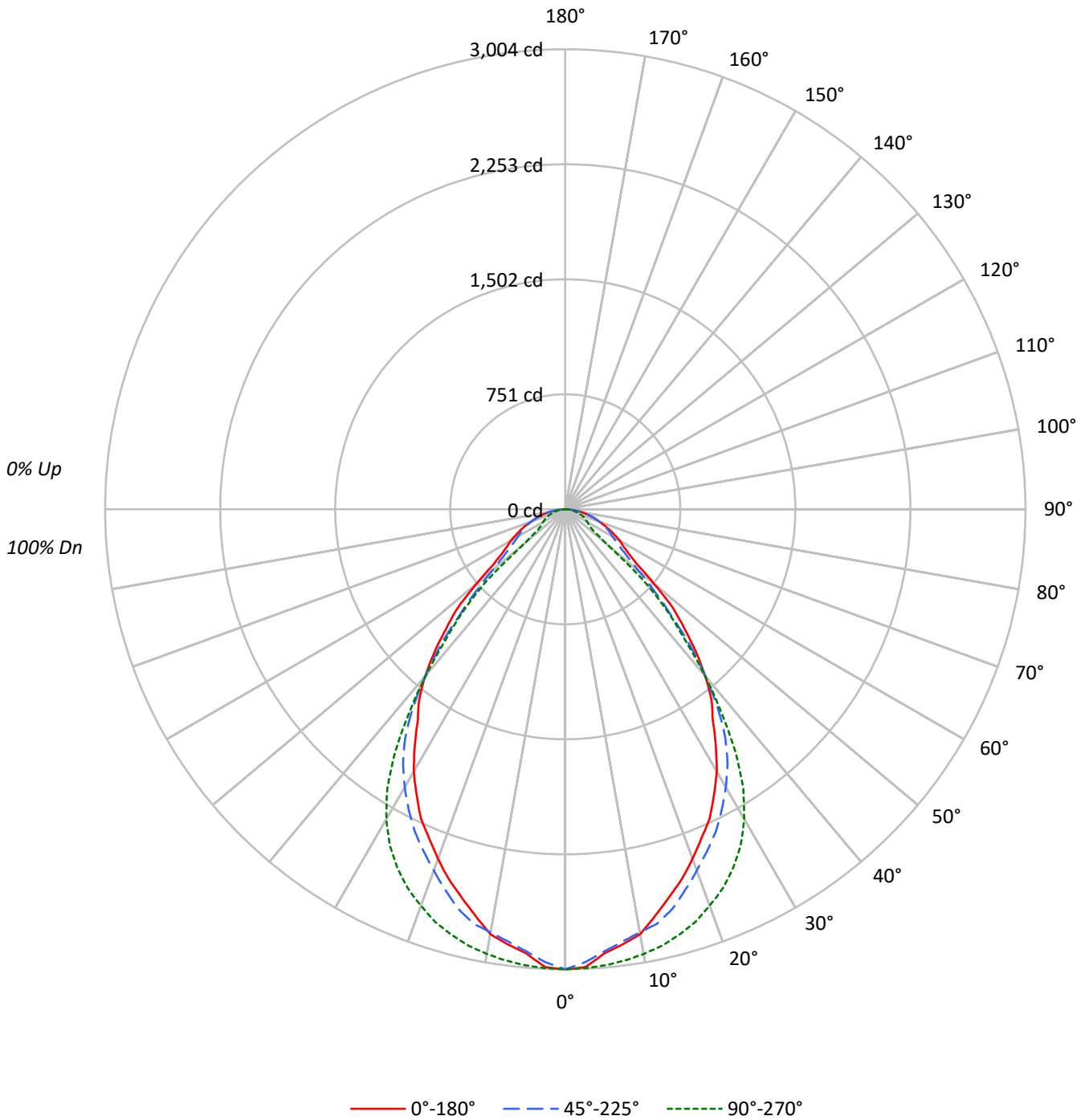
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4875.0 lumens
Efficiency: N/A
Efficacy: 109.8 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 (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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88	88	88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78	78	78
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69	69	69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62	62	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55	55	55
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	50	50	50
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	45	45	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41	41	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38	38	38
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	35	35	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21372	21372	21372
5°	20795	20702	21349
10°	20354	20264	21299
15°	19303	19896	21179
20°	18388	19009	20856
25°	17492	18239	20323
30°	16251	17218	19189
35°	14571	15822	16830
40°	13202	13231	13158
45°	11038	9776	9535
50°	8338	6882	3898
55°	6271	5503	2459
60°	5827	5067	2368
65°	5423	5057	2372
70°	4959	4959	2336
75°	4704	4830	2257
80°	4347	4569	2315
85°	3796	3984	2531

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 11295 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.5	5.7
10°-20°	764.5	15.7
20°-30°	1084.1	22.2
30°-40°	1116.9	22.9
40°-50°	780.1	16.0
50°-60°	374.3	7.7
60°-70°	262.6	5.4
70°-80°	164.2	3.4
80°-90°	50.8	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°	2126.1	43.6
0°-40°	3243.0	66.5
0°-60°	4397.4	90.2
0°-90°	4875.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4875.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3004	3004	3004	3004	3004	
5°	2912	2908	2898	2974	2989	276
15°	2621	2640	2701	2778	2875	738
25°	2228	2250	2323	2480	2589	1019
35°	1678	1723	1822	1860	1938	1057
45°	1097	1122	972	922	948	845
55°	506	481	444	284	198	474
65°	322	301	300	228	141	319
75°	171	169	176	152	82	180
85°	46	46	49	48	31	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3003.8	3003.8	3003.8	3003.8	3003.8
2.5°	2992.2	2982.9	2960.4	3001.4	2998.3
5°	2911.6	2907.8	2898.5	2974.3	2989.1
7.5°	2866.0	2858.2	2847.4	2931.0	2972.0
10°	2817.2	2826.5	2804.8	2881.4	2948.0
12.5°	2716.6	2741.3	2770.7	2830.4	2918.6
15°	2620.6	2639.9	2701.1	2778.5	2875.3
17.5°	2530.8	2553.2	2605.8	2722.0	2824.9
20°	2428.6	2459.5	2510.6	2659.3	2754.5
22.5°	2323.3	2351.9	2416.2	2575.7	2681.7
25°	2228.1	2250.5	2323.3	2480.4	2588.8
27.5°	2101.9	2143.7	2212.6	2364.3	2478.1
30°	1978.0	2013.6	2095.7	2223.4	2335.7
32.5°	1828.6	1880.5	1971.0	2068.6	2162.2
35°	1677.6	1723.3	1821.6	1859.5	1937.7
37.5°	1567.7	1580.1	1635.8	1631.2	1675.3
40°	1421.4	1446.1	1424.5	1366.4	1416.7
42.5°	1263.4	1292.9	1205.4	1138.0	1155.8
45°	1097.0	1122.5	971.6	922.0	947.6
47.5°	953.0	950.7	783.5	750.2	714.6
50°	753.3	778.0	621.7	559.7	352.2
52.5°	588.4	597.7	512.5	357.7	231.5
55°	505.5	480.8	443.6	284.1	198.2
57.5°	449.0	418.1	393.3	264.0	181.2
60°	409.5	374.7	356.1	250.8	166.4
62.5°	364.6	337.5	330.6	239.2	153.3
65°	322.1	301.2	300.4	228.4	140.9
67.5°	279.5	267.9	271.0	215.2	127.0
70°	238.4	236.1	238.4	198.2	112.3
72.5°	203.6	201.3	207.5	176.5	96.0
75°	171.1	168.8	175.7	151.7	82.1
77.5°	136.3	137.8	142.4	126.2	68.9
80°	106.1	106.1	111.5	99.1	56.5
82.5°	75.9	76.6	79.7	72.8	44.1
85°	46.5	46.5	48.8	48.0	31.0
87.5°	15.5	17.8	20.9	22.5	15.5
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	16.29	17.64	16.65	17.95	18.27	12.62	13.97	12.98	14.28	14.60
	3H	18.02	19.23	18.40	19.56	19.93	14.59	15.80	14.97	16.13	16.49
	4H	18.70	19.82	19.10	20.17	20.56	15.30	16.43	15.70	16.78	17.16
	6H	19.20	20.24	19.62	20.61	21.00	15.82	16.86	16.24	17.23	17.62
	8H	19.37	20.36	19.80	20.75	21.15	16.01	16.99	16.44	17.38	17.79
	12H	19.48	20.43	19.92	20.81	21.24	16.15	17.09	16.58	17.47	17.90
4H	2H	16.82	17.94	17.22	18.29	18.68	14.24	15.37	14.64	15.72	16.10
	3H	18.79	19.72	19.21	20.13	20.53	16.42	17.35	16.83	17.75	18.15
	4H	19.60	20.43	20.03	20.85	21.29	17.30	18.13	17.73	18.55	18.99
	6H	20.24	20.96	20.70	21.41	21.87	17.94	18.66	18.40	19.11	19.57
	8H	20.46	21.14	20.93	21.58	22.05	18.15	18.83	18.62	19.27	19.74
	12H	20.61	21.21	21.10	21.70	22.17	18.31	18.91	18.79	19.39	19.86
8H	4H	19.88	20.56	20.35	21.00	21.47	17.95	18.62	18.41	19.07	19.54
	6H	20.66	21.22	21.16	21.71	22.19	18.81	19.36	19.31	19.86	20.34
	8H	20.96	21.46	21.48	21.98	22.47	19.14	19.63	19.66	20.15	20.64
	12H	21.20	21.64	21.71	22.13	22.70	19.40	19.84	19.91	20.33	20.90
12H	4H	19.90	20.50	20.38	20.98	21.45	18.02	18.62	18.50	19.10	19.57
	6H	20.72	21.21	21.24	21.73	22.22	18.95	19.44	19.46	19.96	20.45
	8H	21.08	21.52	21.59	22.01	22.58	19.36	19.80	19.87	20.29	20.86