

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: P893754

Luminaire Tested: 4MB-6SL-LVRA-UNV-L835

Issue Date: 11/11/2024

**Test Information**

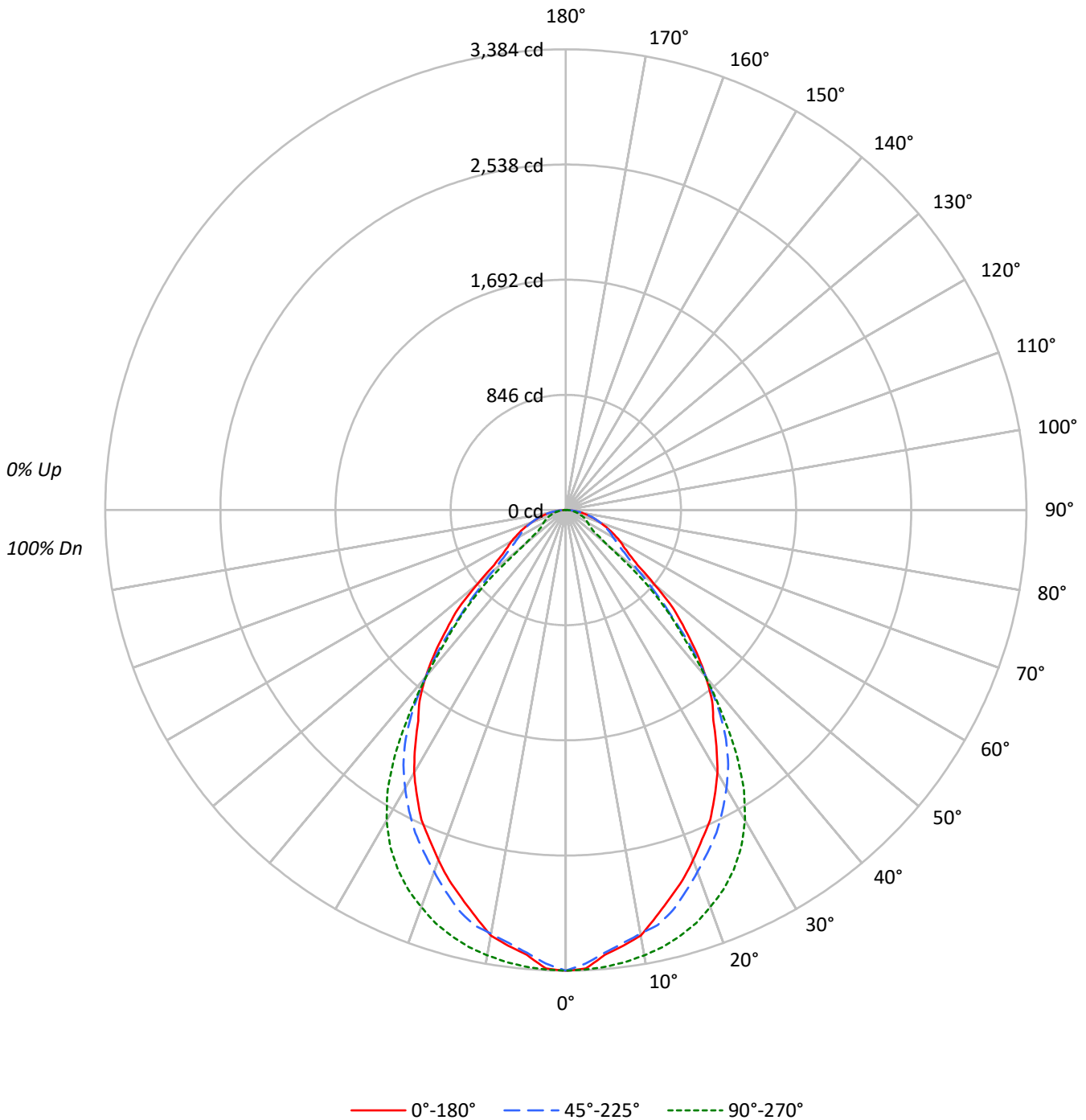
Test Method: LM-79-2019  
Report Number: P893754  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-26)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 4MB-6SL-LVRA-UNV-L835  
Description: 6000 Lumen 4FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 80CRI, 3500K CCT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5492.0 lumens  
Efficiency: N/A  
Efficacy: 123.7 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<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

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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		
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88		
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78		
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69		
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62		
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55		
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	50		
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	45		
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41		
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38		
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	35		

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

	0°	45°	90°
0°	24076	24076	24076
5°	23428	23321	24051
10°	22929	22829	23994
15°	21746	22414	23860
20°	20715	21416	23495
25°	19705	20547	22896
30°	18307	19396	21618
35°	16415	17825	18961
40°	14873	14905	14824
45°	12435	11013	10741
50°	9393	7752	4392
55°	7064	6199	2770
60°	6566	5709	2668
65°	6108	5697	2672
70°	5588	5588	2632
75°	5297	5443	2540
80°	4896	5146	2610
85°	4270	4482	2849

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 12725 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	312.6	5.7
10°-20°	861.3	15.7
20°-30°	1221.3	22.2
30°-40°	1258.2	22.9
40°-50°	878.8	16.0
50°-60°	421.7	7.7
60°-70°	295.9	5.4
70°-80°	185.0	3.4
80°-90°	57.2	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°	2395.2	43.6
0°-40°	3653.4	66.5
0°-60°	4954.0	90.2
0°-90°	5492.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5492.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3384	3384	3384	3384	3384	
5°	3280	3276	3265	3351	3367	310
15°	2952	2974	3043	3130	3239	831
25°	2510	2535	2617	2794	2916	1148
35°	1890	1941	2052	2095	2183	1191
45°	1236	1265	1094	1039	1068	952
55°	570	542	500	320	223	534
65°	363	339	338	257	159	359
75°	193	190	198	171	92	203
85°	52	52	55	54	35	58
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3383.9	3383.9	3383.9	3383.9	3383.9
2.5°	3370.9	3360.4	3335.1	3381.3	3377.8
5°	3280.2	3275.8	3265.3	3350.8	3367.4
7.5°	3228.7	3220.0	3207.8	3302.0	3348.2
10°	3173.7	3184.2	3159.8	3246.1	3321.1
12.5°	3060.4	3088.3	3121.4	3188.6	3288.0
15°	2952.2	2974.0	3042.9	3130.1	3239.2
17.5°	2851.1	2876.3	2935.7	3066.5	3182.5
20°	2735.9	2770.8	2828.4	2995.8	3103.1
22.5°	2617.3	2649.6	2722.0	2901.6	3021.1
25°	2510.0	2535.3	2617.3	2794.4	2916.5
27.5°	2367.9	2415.0	2492.6	2663.5	2791.7
30°	2228.3	2268.5	2360.9	2504.8	2631.3
32.5°	2060.0	2118.4	2220.5	2330.4	2435.9
35°	1889.9	1941.4	2052.2	2094.9	2183.0
37.5°	1766.1	1780.1	1842.9	1837.6	1887.3
40°	1601.3	1629.2	1604.8	1539.3	1596.0
42.5°	1423.3	1456.5	1357.9	1282.1	1302.1
45°	1235.8	1264.6	1094.5	1038.7	1067.5
47.5°	1073.6	1071.0	882.6	845.1	805.0
50°	848.6	876.5	700.3	630.6	396.8
52.5°	662.8	673.3	577.4	402.9	260.8
55°	569.5	541.6	499.7	320.1	223.3
57.5°	505.8	471.0	443.1	297.4	204.1
60°	461.4	422.1	401.2	282.6	187.5
62.5°	410.8	380.3	372.4	269.5	172.7
65°	362.8	339.3	338.4	257.3	158.7
67.5°	314.8	301.8	305.3	242.5	143.0
70°	268.6	266.0	268.6	223.3	126.5
72.5°	229.4	226.8	233.7	198.8	108.1
75°	192.7	190.1	198.0	170.9	92.4
77.5°	153.5	155.2	160.5	142.2	77.6
80°	119.5	119.5	125.6	111.6	63.7
82.5°	85.5	86.3	89.8	82.0	49.7
85°	52.3	52.3	54.9	54.1	34.9
87.5°	17.4	20.1	23.5	25.3	17.4
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	16.70	18.05	17.07	18.37	18.68	13.03	14.39	13.40	14.70	15.01
	3H	18.44	19.65	18.82	19.97	20.34	15.01	16.21	15.39	16.54	16.91
	4H	19.11	20.24	19.51	20.59	20.97	15.71	16.84	16.11	17.19	17.57
	6H	19.62	20.65	20.03	21.02	21.42	16.24	17.27	16.65	17.64	18.04
	8H	19.79	20.77	20.22	21.16	21.57	16.42	17.41	16.85	17.80	18.20
	12H	19.90	20.84	20.33	21.22	21.65	16.56	17.50	16.99	17.88	18.31
4H	2H	17.23	18.36	17.63	18.71	19.09	14.65	15.78	15.06	16.13	16.51
	3H	19.21	20.14	19.62	20.54	20.94	16.83	17.76	17.24	18.17	18.57
	4H	20.01	20.84	20.44	21.26	21.71	17.71	18.55	18.15	18.97	19.41
	6H	20.65	21.38	21.11	21.82	22.29	18.35	19.08	18.82	19.52	19.99
	8H	20.87	21.55	21.34	22.00	22.47	18.56	19.24	19.03	19.69	20.16
	12H	21.03	21.63	21.51	22.11	22.58	18.72	19.32	19.21	19.80	20.28
8H	4H	20.29	20.97	20.76	21.42	21.89	18.36	19.04	18.83	19.48	19.95
	6H	21.08	21.63	21.58	22.13	22.61	19.22	19.78	19.72	20.27	20.75
	8H	21.38	21.88	21.90	22.39	22.88	19.55	20.05	20.07	20.56	21.05
	12H	21.61	22.05	22.13	22.55	23.12	19.81	20.25	20.33	20.75	21.32
12H	4H	20.31	20.91	20.80	21.39	21.87	18.43	19.03	18.92	19.51	19.99
	6H	21.13	21.63	21.65	22.14	22.63	19.36	19.86	19.88	20.37	20.86
	8H	21.49	21.93	22.01	22.43	23.00	19.77	20.21	20.29	20.71	21.28