

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: P893758

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893758
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-L935
Description: 6000 Lumen 4FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 90CRI, 3500K CCT
Light Source: -
Ballast/Driver: -

Summary

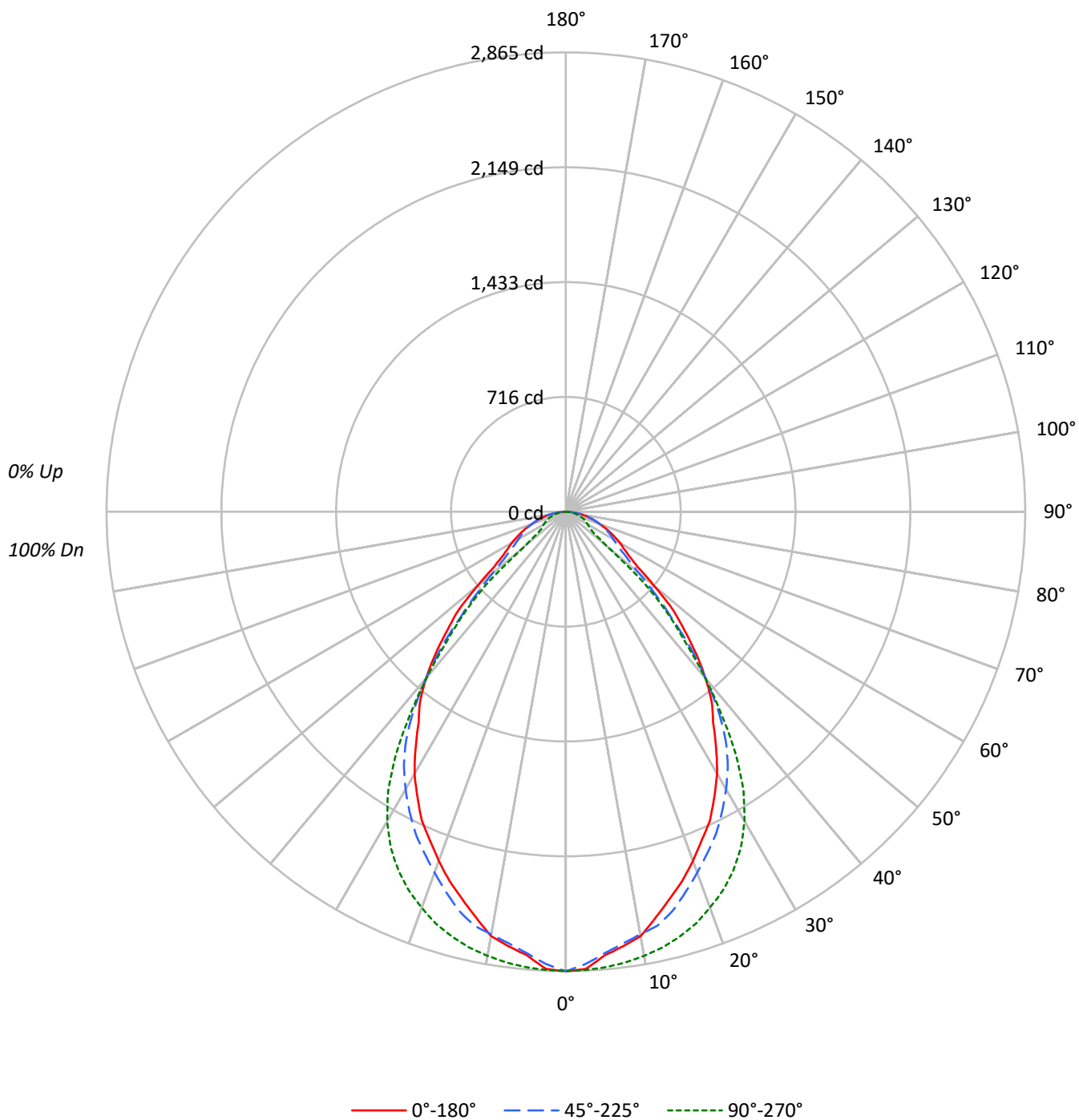
Lumens per Lamp: N/A
Luminaire Lumens: 4650.0 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.16 / 1.12
Luminous Opening: Rectangular (W 0.38' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 44.4
Input Voltage (V): 120
Input Current (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

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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	107	104	101	108	105	102	99	101	98	96		97	95	93		93
2	103	96	91	86	101	95	90	85	91	87	83		88	85	82		85
3	96	87	80	75	94	86	80	75	83	78	73		80	76	72		78
4	89	79	72	66	87	78	71	66	76	70	65		73	68	64		71
5	83	72	65	59	81	71	64	59	69	63	58		67	62	58		66
6	78	66	59	53	76	65	58	53	64	57	53		62	57	52		61
7	73	61	54	48	71	60	53	48	59	52	48		58	52	47		56
8	68	57	49	44	67	56	49	44	55	48	44		53	48	43		52
9	64	52	45	40	63	52	45	40	51	44	40		50	44	40		49
10	61	49	42	37	60	48	42	37	47	41	37		47	41	37		46

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20385	20385	20385
5°	19836	19746	20363
10°	19414	19329	20316
15°	18412	18978	20202
20°	17540	18132	19894
25°	16684	17397	19385
30°	15501	16422	18304
35°	13899	15092	16054
40°	12593	12620	12551
45°	10529	9325	9094
50°	7953	6564	3719
55°	5982	5248	2344
60°	5558	4834	2260
65°	5172	4823	2263
70°	4731	4731	2228
75°	4486	4607	2152
80°	4147	4355	2208
85°	3616	3796	2408

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 10774 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.7	5.7
10°-20°	729.2	15.7
20°-30°	1034.1	22.2
30°-40°	1065.3	22.9
40°-50°	744.1	16.0
50°-60°	357.1	7.7
60°-70°	250.5	5.4
70°-80°	156.6	3.4
80°-90°	48.4	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°	2028.0	43.6
0°-40°	3093.3	66.5
0°-60°	4194.4	90.2
0°-90°	4650.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4650.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2865	2865	2865	2865	2865	
5°	2777	2774	2765	2837	2851	263
15°	2500	2518	2576	2650	2743	704
25°	2125	2147	2216	2366	2469	972
35°	1600	1644	1738	1774	1848	1008
45°	1046	1071	927	880	904	806
55°	482	459	423	271	189	452
65°	307	287	286	218	134	304
75°	163	161	168	145	78	172
85°	44	44	46	46	30	50
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2865.1	2865.1	2865.1	2865.1	2865.1
2.5°	2854.1	2845.2	2823.8	2862.9	2860.0
5°	2777.3	2773.6	2764.7	2837.1	2851.1
7.5°	2733.7	2726.3	2716.0	2795.7	2834.9
10°	2687.2	2696.0	2675.4	2748.5	2812.0
12.5°	2591.2	2614.8	2642.9	2699.7	2783.9
15°	2499.6	2518.1	2576.4	2650.2	2742.6
17.5°	2413.9	2435.4	2485.6	2596.3	2694.6
20°	2316.5	2346.0	2394.7	2536.5	2627.4
22.5°	2216.0	2243.4	2304.7	2456.8	2557.9
25°	2125.2	2146.6	2216.0	2365.9	2469.3
27.5°	2004.9	2044.7	2110.5	2255.2	2363.7
30°	1886.7	1920.7	1998.9	2120.8	2227.9
32.5°	1744.2	1793.7	1880.1	1973.1	2062.5
35°	1600.2	1643.8	1737.5	1773.7	1848.3
37.5°	1495.3	1507.1	1560.3	1555.9	1598.0
40°	1355.8	1379.4	1358.7	1303.3	1351.3
42.5°	1205.1	1233.2	1149.7	1085.5	1102.5
45°	1046.4	1070.7	926.7	879.5	903.8
47.5°	909.0	906.8	747.3	715.5	681.6
50°	718.5	742.1	593.0	533.9	336.0
52.5°	561.2	570.1	488.8	341.2	220.8
55°	482.2	458.6	423.1	271.0	189.0
57.5°	428.3	398.8	375.1	251.8	172.8
60°	390.6	357.4	339.7	239.3	158.8
62.5°	347.8	322.0	315.3	228.2	146.2
65°	307.2	287.3	286.5	217.8	134.4
67.5°	266.6	255.5	258.5	205.3	121.1
70°	227.4	225.2	227.4	189.0	107.1
72.5°	194.2	192.0	197.9	168.4	91.6
75°	163.2	161.0	167.6	144.7	78.3
77.5°	130.0	131.4	135.9	120.4	65.7
80°	101.2	101.2	106.3	94.5	53.9
82.5°	72.4	73.1	76.1	69.4	42.1
85°	44.3	44.3	46.5	45.8	29.5
87.5°	14.8	17.0	19.9	21.4	14.8
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	16.12	17.48	16.49	17.79	18.10	12.45	13.81	12.82	14.12	14.43
	3H	17.86	19.07	18.24	19.40	19.76	14.43	15.64	14.81	15.97	16.33
	4H	18.53	19.66	18.93	20.01	20.39	15.13	16.26	15.54	16.61	16.99
	6H	19.04	20.08	19.45	20.45	20.84	15.66	16.70	16.07	17.07	17.46
	8H	19.21	20.20	19.64	20.59	20.99	15.84	16.83	16.27	17.22	17.62
	12H	19.32	20.26	19.75	20.64	21.07	15.98	16.92	16.41	17.31	17.74
4H	2H	16.65	17.78	17.05	18.13	18.51	14.08	15.20	14.48	15.55	15.94
	3H	18.63	19.56	19.04	19.96	20.37	16.25	17.18	16.67	17.59	17.99
	4H	19.43	20.27	19.87	20.69	21.13	17.13	17.97	17.57	18.39	18.83
	6H	20.07	20.80	20.54	21.24	21.71	17.78	18.50	18.24	18.95	19.41
	8H	20.29	20.97	20.76	21.42	21.89	17.99	18.66	18.45	19.11	19.58
	12H	20.45	21.05	20.93	21.53	22.00	18.14	18.74	18.63	19.22	19.70
8H	4H	19.72	20.39	20.18	20.84	21.31	17.78	18.46	18.25	18.91	19.38
	6H	20.50	21.05	21.00	21.55	22.03	18.64	19.20	19.14	19.69	20.17
	8H	20.80	21.30	21.32	21.81	22.30	18.97	19.47	19.49	19.98	20.48
	12H	21.04	21.48	21.55	21.97	22.54	19.23	19.68	19.75	20.17	20.74
12H	4H	19.73	20.33	20.22	20.81	21.29	17.85	18.45	18.34	18.94	19.41
	6H	20.55	21.05	21.07	21.56	22.06	18.78	19.28	19.30	19.79	20.29
	8H	20.92	21.36	21.43	21.85	22.42	19.19	19.63	19.71	20.13	20.70