

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: P893748

Luminaire Tested: 4MB-6SL-LVR-UNV-L850

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893748
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-L850
Description: 6000 Lumen 4FT MICROBAY LINEAR BAY with LOUVER, 80CRI, 5000K CCT
Light Source: -
Ballast/Driver: -

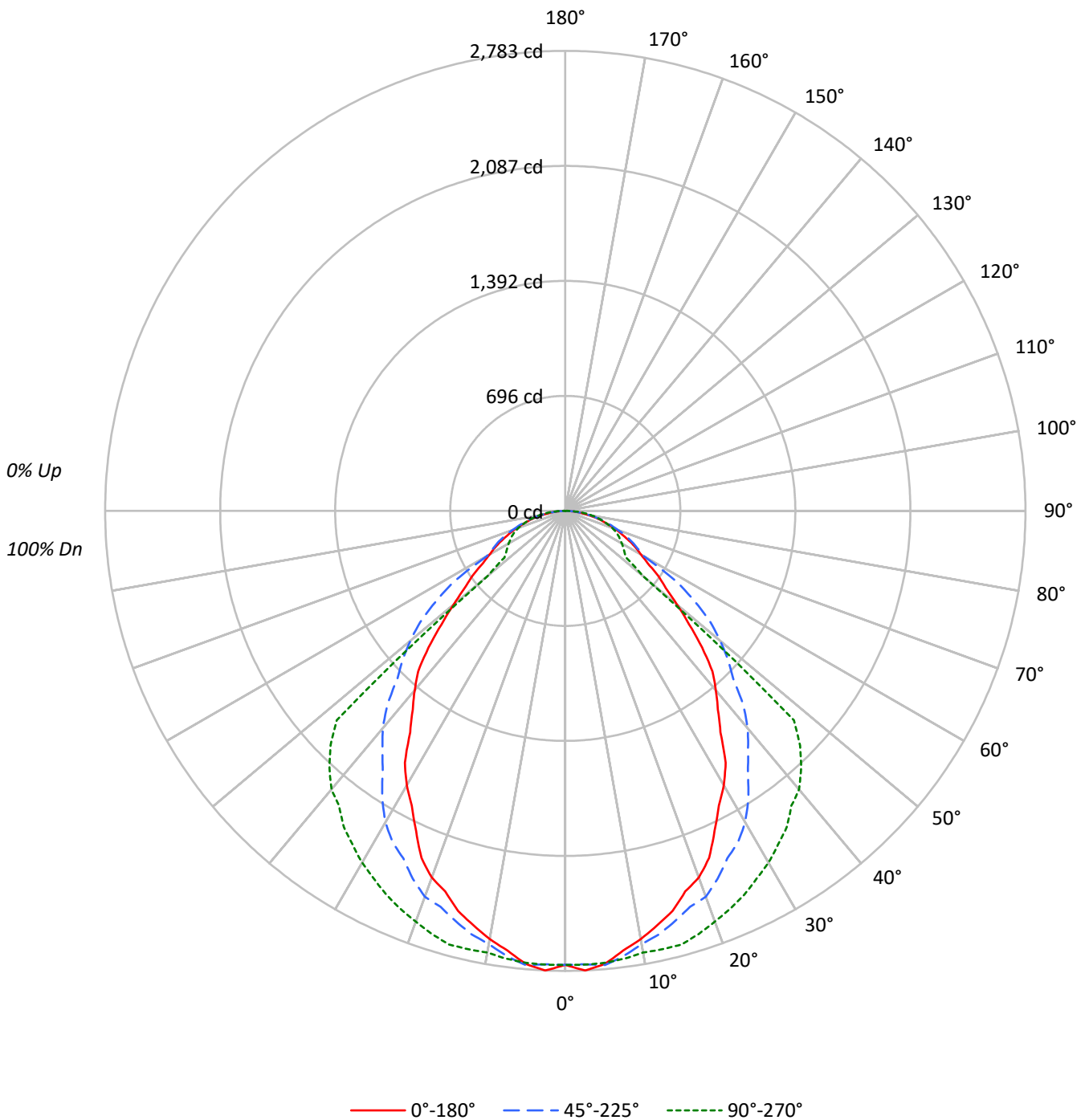
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5861.0 lumens
Efficiency: N/A
Efficacy: 132.0 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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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°	19541	19541	19541
5°	19646	19696	19596
10°	19002	19224	19599
15°	18453	18918	20003
20°	17874	18809	20020
25°	16771	18203	20108
30°	15754	17874	20190
35°	14206	16716	20286
40°	13158	15947	20428
45°	11771	14453	20198
50°	9766	13538	6785
55°	8508	11884	5428
60°	7525	7744	5629
65°	7155	7534	5975
70°	6711	7121	6303
75°	6246	6710	6479
80°	5691	6322	6781
85°	5037	5380	7331

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 20198 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.5	4.4
10°-20°	732.8	12.5
20°-30°	1078.0	18.4
30°-40°	1232.8	21.0
40°-50°	1167.4	19.9
50°-60°	643.2	11.0
60°-70°	412.9	7.0
70°-80°	254.9	4.3
80°-90°	78.4	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°	2071.4	35.3
0°-40°	3304.2	56.4
0°-60°	5114.8	87.3
0°-90°	5861.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5861.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2746	2746	2746	2746	2746	
5°	2751	2773	2758	2758	2744	258
15°	2505	2536	2568	2703	2716	703
25°	2136	2232	2319	2470	2561	984
35°	1636	1776	1924	2204	2336	1034
45°	1170	1281	1436	1843	2007	895
55°	686	720	958	494	438	613
65°	425	439	448	398	355	421
75°	227	231	244	257	236	242
85°	62	62	66	76	90	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2746.5	2746.5	2746.5	2746.5	2746.5
2.5°	2782.9	2790.0	2745.1	2743.7	2747.9
5°	2750.7	2773.1	2757.7	2757.7	2743.7
7.5°	2682.0	2719.8	2715.6	2747.9	2732.4
10°	2630.1	2660.9	2660.9	2745.1	2712.8
12.5°	2568.3	2603.4	2623.0	2711.4	2715.6
15°	2505.2	2536.1	2568.3	2703.0	2715.6
17.5°	2414.0	2470.1	2510.8	2642.7	2683.4
20°	2360.7	2394.4	2484.2	2590.8	2644.1
22.5°	2272.4	2321.5	2408.4	2527.7	2606.2
25°	2136.3	2231.7	2318.7	2470.1	2561.3
27.5°	2010.1	2081.6	2261.1	2421.0	2508.0
30°	1917.5	1973.6	2175.6	2349.5	2457.5
32.5°	1805.3	1896.4	2060.6	2279.4	2394.4
35°	1635.5	1775.8	1924.5	2203.6	2335.5
37.5°	1516.3	1613.1	1815.1	2125.1	2247.1
40°	1416.7	1505.1	1716.9	2026.9	2199.4
42.5°	1317.1	1388.7	1593.5	1954.0	2111.1
45°	1169.8	1280.7	1436.4	1843.1	2007.3
47.5°	1015.6	1133.4	1334.0	1749.2	1875.4
50°	882.3	976.3	1223.1	1562.6	613.0
52.5°	765.9	852.8	1105.3	565.3	462.9
55°	685.9	719.6	958.0	493.7	437.6
57.5°	590.5	645.2	803.7	469.9	415.2
60°	528.8	552.7	544.2	446.1	395.6
62.5°	479.7	496.6	493.7	422.2	373.1
65°	425.0	439.0	447.5	398.4	354.9
67.5°	370.3	382.9	395.6	368.9	329.6
70°	322.6	331.0	342.3	333.8	303.0
72.5°	273.5	283.3	290.4	297.4	267.9
75°	227.2	231.4	244.1	256.7	235.7
77.5°	185.2	189.4	197.8	211.8	200.6
80°	138.9	143.1	154.3	165.5	165.5
82.5°	98.2	101.0	108.0	123.4	130.5
85°	61.7	61.7	65.9	75.7	89.8
87.5°	23.8	23.8	28.1	33.7	44.9
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	18.28	19.76	18.64	20.07	20.39	16.08	17.56	16.45	17.88	18.19
	3H	19.80	21.13	20.18	21.46	21.82	18.41	19.74	18.79	20.07	20.43
	4H	20.40	21.64	20.80	21.99	22.37	19.36	20.60	19.76	20.95	21.33
	6H	20.85	22.00	21.27	22.37	22.76	20.14	21.29	20.56	21.66	22.05
	8H	21.00	22.09	21.42	22.48	22.88	20.46	21.55	20.88	21.94	22.34
	12H	21.09	22.14	21.52	22.52	22.95	20.71	21.75	21.14	22.13	22.56
4H	2H	18.83	20.07	19.23	20.42	20.80	17.18	18.43	17.59	18.78	19.16
	3H	20.60	21.63	21.01	22.03	22.43	19.63	20.66	20.04	21.06	21.46
	4H	21.32	22.25	21.75	22.66	23.10	20.70	21.62	21.13	22.04	22.48
	6H	21.91	22.71	22.36	23.15	23.61	21.58	22.39	22.04	22.83	23.29
	8H	22.09	22.85	22.56	23.29	23.76	21.94	22.69	22.40	23.13	23.60
	12H	22.23	22.90	22.71	23.38	23.86	22.22	22.90	22.71	23.38	23.85
8H	4H	21.63	22.38	22.09	22.82	23.29	21.08	21.84	21.55	22.28	22.75
	6H	22.34	22.96	22.84	23.45	23.93	22.12	22.74	22.62	23.23	23.71
	8H	22.60	23.16	23.11	23.67	24.16	22.56	23.13	23.08	23.64	24.12
	12H	22.81	23.31	23.32	23.80	24.37	22.95	23.45	23.46	23.94	24.50
12H	4H	21.66	22.34	22.15	22.82	23.29	21.12	21.79	21.60	22.27	22.74
	6H	22.40	22.97	22.92	23.48	23.97	22.18	22.74	22.70	23.26	23.74
	8H	22.72	23.22	23.23	23.71	24.28	22.69	23.19	23.20	23.68	24.25