

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: P893756

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893756
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-L850
Description: 6000 Lumen 4FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 80CRI, 5000K CCT
Light Source: -
Ballast/Driver: -

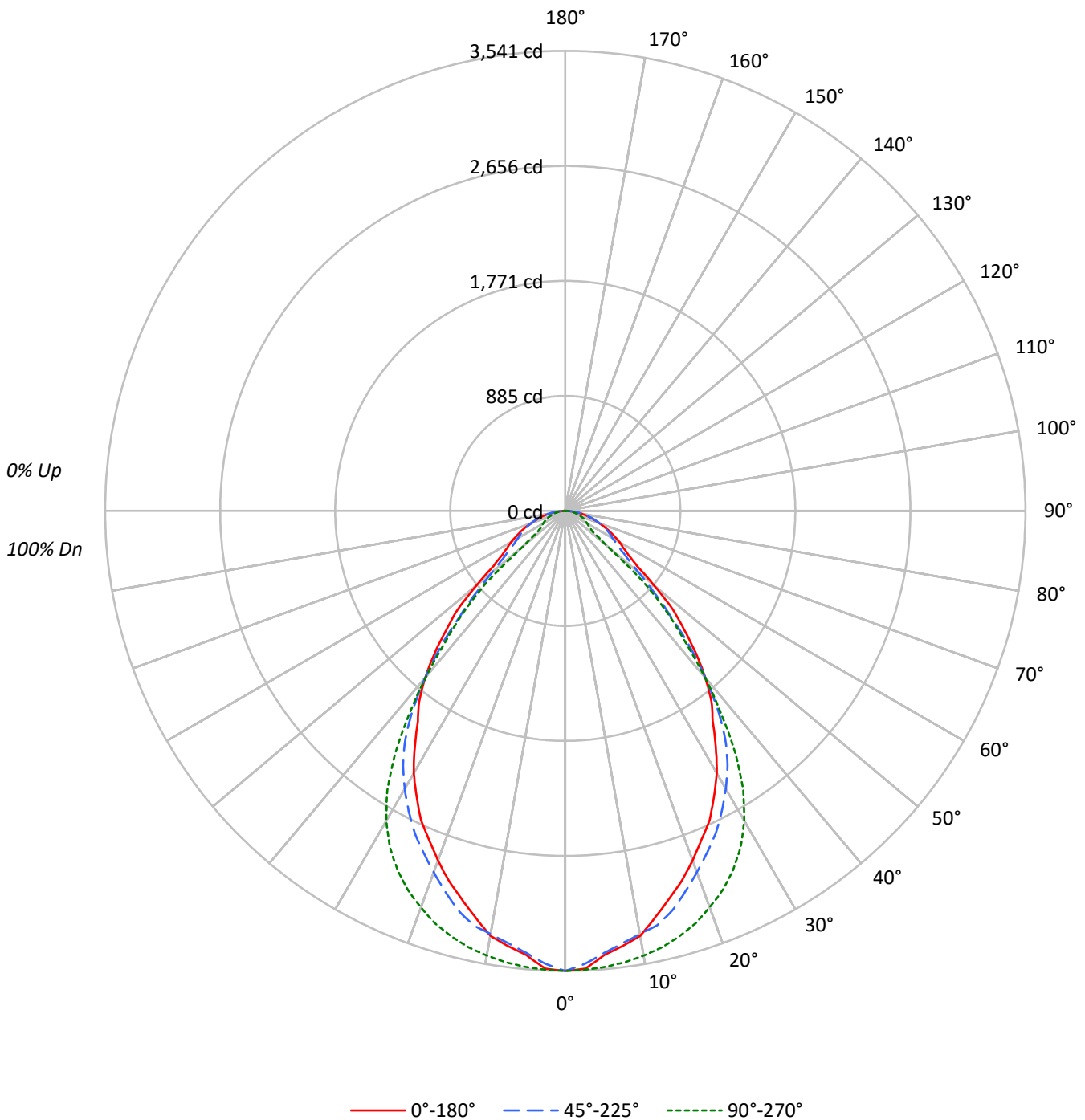
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5747.0 lumens
Efficiency: N/A
Efficacy: 129.4 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

TEST NUMBER: P893756
CATALOG NUMBER: 4MB-6SL-LVRA-UNV-L850

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°	25195	25195	25195
5°	24516	24404	25167
10°	23994	23889	25108
15°	22756	23455	24968
20°	21678	22410	24587
25°	20620	21501	23959
30°	19157	20297	22621
35°	17178	18653	19841
40°	15563	15597	15512
45°	13012	11525	11240
50°	9829	8112	4597
55°	7393	6486	2898
60°	6870	5974	2792
65°	6392	5961	2796
70°	5848	5848	2752
75°	5545	5696	2658
80°	5122	5384	2729
85°	4474	4694	2980

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 13315 cd/sqm



TEST NUMBER: P893756
 CATALOG NUMBER: 4MB-6SL-LVRA-UNV-L850

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.1	5.7
10°-20°	901.3	15.7
20°-30°	1278.0	22.2
30°-40°	1316.6	22.9
40°-50°	919.6	16.0
50°-60°	441.3	7.7
60°-70°	309.6	5.4
70°-80°	193.6	3.4
80°-90°	59.9	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°	2506.4	43.6
0°-40°	3823.1	66.5
0°-60°	5184.0	90.2
0°-90°	5747.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5747.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3541	3541	3541	3541	3541	
5°	3432	3428	3417	3506	3524	325
15°	3089	3112	3184	3276	3390	870
25°	2627	2653	2739	2924	3052	1201
35°	1978	2032	2148	2192	2284	1246
45°	1293	1323	1145	1087	1117	996
55°	596	567	523	335	234	558
65°	380	355	354	269	166	376
75°	202	199	207	179	97	212
85°	55	55	58	57	36	61
90°	0	0	0	0	0	



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CATALOG NUMBER: 4MB-6SL-LVRA-UNV-L850

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3541.1	3541.1	3541.1	3541.1	3541.1
2.5°	3527.4	3516.4	3489.9	3538.3	3534.7
5°	3432.5	3427.9	3416.9	3506.4	3523.7
7.5°	3378.6	3369.5	3356.7	3455.3	3503.6
10°	3321.1	3332.1	3306.5	3396.9	3475.3
12.5°	3202.5	3231.7	3266.4	3336.6	3440.7
15°	3089.3	3112.1	3184.2	3275.5	3389.6
17.5°	2983.4	3009.9	3072.0	3208.9	3330.2
20°	2863.0	2899.5	2959.7	3134.9	3247.2
22.5°	2738.8	2772.6	2848.4	3036.4	3161.4
25°	2626.6	2653.1	2738.8	2924.1	3051.9
27.5°	2477.8	2527.1	2608.3	2787.2	2921.4
30°	2331.8	2373.8	2470.5	2621.1	2753.4
32.5°	2155.7	2216.8	2323.6	2438.6	2549.0
35°	1977.7	2031.5	2147.5	2192.2	2284.3
37.5°	1848.1	1862.7	1928.4	1922.9	1975.0
40°	1675.6	1704.8	1679.3	1610.8	1670.1
42.5°	1489.4	1524.1	1421.0	1341.6	1362.6
45°	1293.2	1323.3	1145.4	1087.0	1117.1
47.5°	1123.5	1120.7	923.6	884.4	842.4
50°	888.0	917.2	732.9	659.8	415.3
52.5°	693.6	704.6	604.2	421.6	272.9
55°	596.0	566.8	522.9	334.9	233.6
57.5°	529.3	492.8	463.6	311.2	213.6
60°	482.8	441.7	419.8	295.7	196.2
62.5°	429.9	397.9	389.7	282.0	180.7
65°	379.7	355.0	354.1	269.2	166.1
67.5°	329.5	315.8	319.4	253.7	149.7
70°	281.1	278.4	281.1	233.6	132.3
72.5°	240.0	237.3	244.6	208.1	113.2
75°	201.7	199.0	207.2	178.9	96.7
77.5°	160.6	162.5	167.9	148.8	81.2
80°	125.0	125.0	131.4	116.8	66.6
82.5°	89.4	90.4	94.0	85.8	52.0
85°	54.8	54.8	57.5	56.6	36.5
87.5°	18.3	21.0	24.6	26.5	18.3
90°	0.0	0.0	0.0	0.0	0.0



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 CATALOG NUMBER: 4MB-6SL-LVRA-UNV-L850

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	16.86	18.21	17.22	18.52	18.84	13.19	14.54	13.55	14.86	15.17
	3H	18.60	19.80	18.98	20.13	20.50	15.17	16.37	15.54	16.70	17.07
	4H	19.27	20.39	19.67	20.75	21.13	15.87	17.00	16.27	17.35	17.73
	6H	19.77	20.81	20.19	21.18	21.58	16.39	17.43	16.81	17.80	18.19
	8H	19.95	20.93	20.37	21.32	21.73	16.58	17.56	17.01	17.95	18.36
	12H	20.05	21.00	20.49	21.38	21.81	16.72	17.66	17.15	18.04	18.47
4H	2H	17.39	18.51	17.79	18.87	19.25	14.81	15.94	15.21	16.29	16.67
	3H	19.36	20.30	19.78	20.70	21.10	16.99	17.92	17.40	18.32	18.73
	4H	20.17	21.00	20.60	21.42	21.86	17.87	18.70	18.30	19.12	19.57
	6H	20.81	21.53	21.27	21.98	22.44	18.51	19.24	18.97	19.68	20.15
	8H	21.03	21.71	21.50	22.15	22.62	18.72	19.40	19.19	19.84	20.31
	12H	21.18	21.78	21.67	22.27	22.74	18.88	19.48	19.36	19.96	20.43
8H	4H	20.45	21.13	20.92	21.57	22.04	18.52	19.19	18.99	19.64	20.11
	6H	21.23	21.79	21.74	22.29	22.77	19.38	19.93	19.88	20.43	20.91
	8H	21.54	22.04	22.06	22.55	23.04	19.71	20.21	20.23	20.72	21.21
	12H	21.77	22.21	22.28	22.71	23.28	19.97	20.41	20.48	20.91	21.47
12H	4H	20.47	21.07	20.95	21.55	22.02	18.59	19.19	19.08	19.67	20.15
	6H	21.29	21.79	21.81	22.30	22.79	19.52	20.02	20.04	20.53	21.02
	8H	21.65	22.09	22.16	22.59	23.16	19.93	20.37	20.44	20.86	21.43