

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: P893762

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893762
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-7)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4MB-6SL-LVRF-UNV-L835
Description: 6000 Lumen 4FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 80CRI, 3500K C
Light Source: -
Ballast/Driver: -

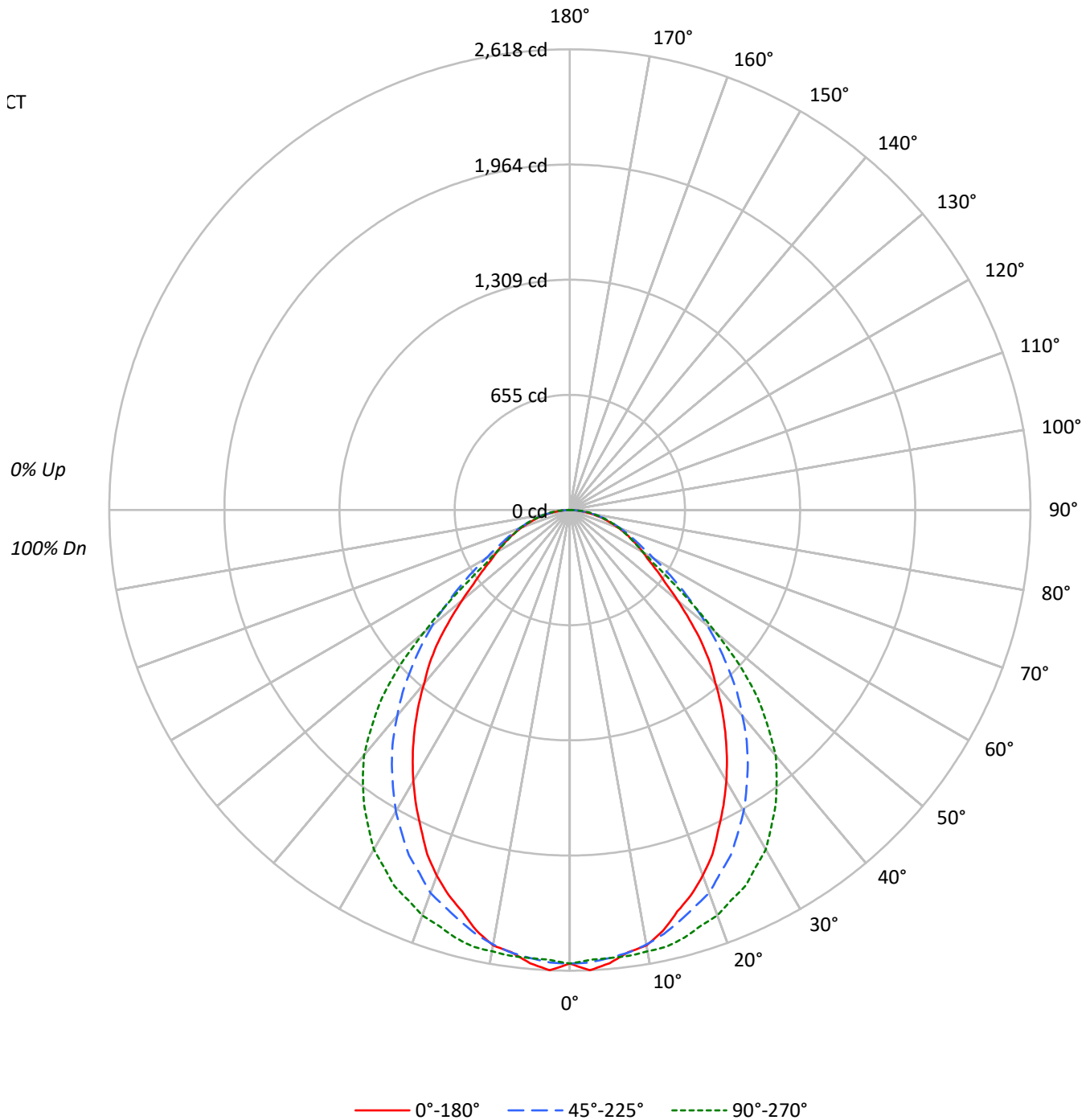
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5357.0 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.27 / 1.23
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	70	80	74	69	77	72	68	75	71	67	67	67	67	65
4	87	76	68	62	84	74	67	61	72	66	60	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	56	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	44	39	49	43	38	48	42	38	38	38	38	36
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18339	18339	18339
5°	18467	18256	18256
10°	18148	18118	18399
15°	17396	17801	18532
20°	16736	17537	18562
25°	15699	16994	18520
30°	14613	16243	18302
35°	13377	15321	17720
40°	11976	14167	16906
45°	10628	12826	15200
50°	8843	11290	11988
55°	7532	9511	8713
60°	6829	7858	6886
65°	6431	6882	6409
70°	6052	6384	6245
75°	5638	6081	5968
80°	5163	5601	5765
85°	4490	4923	6457

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 15200 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.0	4.6
10°-20°	686.7	12.8
20°-30°	997.2	18.6
30°-40°	1110.4	20.7
40°-50°	981.0	18.3
50°-60°	643.7	12.0
60°-70°	394.2	7.4
70°-80°	229.4	4.3
80°-90°	70.3	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°	1927.9	36.0
0°-40°	3038.4	56.7
0°-60°	4663.2	87.0
0°-90°	5357.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5357.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2578	2578	2578	2578	2578	
5°	2586	2587	2556	2582	2556	244
15°	2362	2388	2417	2512	2516	666
25°	2000	2048	2165	2303	2359	920
35°	1540	1623	1764	1950	2040	961
45°	1056	1121	1275	1446	1511	808
55°	607	650	767	760	702	551
65°	382	389	409	397	381	380
75°	205	208	221	225	217	218
85°	55	58	60	68	79	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2577.5	2577.5	2577.5	2577.5	2577.5
2.5°	2617.8	2585.6	2573.5	2585.6	2558.8
5°	2585.6	2586.9	2556.1	2581.6	2556.1
7.5°	2534.7	2552.1	2537.3	2576.2	2556.1
10°	2511.9	2513.2	2507.8	2548.1	2546.7
12.5°	2448.9	2452.9	2467.6	2527.9	2541.4
15°	2361.7	2388.5	2416.7	2511.9	2515.9
17.5°	2293.4	2325.6	2363.1	2465.0	2477.0
20°	2210.3	2223.7	2316.2	2406.0	2451.5
22.5°	2117.8	2143.3	2233.1	2353.7	2399.3
25°	1999.8	2048.1	2164.7	2302.8	2359.1
27.5°	1891.3	1947.6	2068.2	2222.3	2288.0
30°	1778.7	1843.0	1977.1	2128.5	2227.7
32.5°	1662.1	1742.5	1869.8	2044.1	2131.2
35°	1540.1	1623.2	1763.9	1950.2	2040.1
37.5°	1418.1	1498.5	1651.3	1851.1	1931.5
40°	1289.4	1368.5	1525.3	1727.7	1820.2
42.5°	1178.2	1246.5	1407.4	1580.3	1666.1
45°	1056.2	1120.6	1274.7	1446.3	1510.6
47.5°	922.2	997.2	1147.4	1288.1	1313.6
50°	798.9	876.6	1020.0	1101.8	1083.0
52.5°	690.3	756.0	887.3	922.2	877.9
55°	607.2	650.1	766.7	760.0	702.4
57.5°	530.8	557.6	656.8	619.3	564.3
60°	479.9	491.9	552.2	517.4	483.9
62.5°	431.6	437.0	469.1	450.4	424.9
65°	382.0	388.7	408.8	396.8	380.7
67.5°	336.4	339.1	357.9	355.2	335.1
70°	290.9	294.9	306.9	312.3	300.2
72.5°	246.6	250.7	262.7	268.1	257.4
75°	205.1	207.8	221.2	225.2	217.1
77.5°	164.9	170.2	178.3	185.0	175.6
80°	126.0	128.7	136.7	144.8	140.7
82.5°	88.5	92.5	97.8	108.6	111.3
85°	55.0	57.6	60.3	68.4	79.1
87.5°	21.4	22.8	26.8	29.5	38.9
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	17.64	19.12	18.00	19.43	19.75	18.29	19.77	18.65	20.08	20.40
	3H	19.24	20.56	19.62	20.89	21.25	19.72	21.05	20.10	21.38	21.74
	4H	19.85	21.10	20.25	21.45	21.83	20.33	21.57	20.73	21.92	22.30
	6H	20.33	21.47	20.74	21.84	22.23	20.82	21.96	21.23	22.33	22.72
	8H	20.48	21.57	20.90	21.96	22.36	21.01	22.10	21.44	22.49	22.90
	12H	20.58	21.62	21.01	22.00	22.43	21.18	22.23	21.61	22.61	23.04
4H	2H	18.26	19.50	18.66	19.85	20.23	18.78	20.02	19.18	20.37	20.75
	3H	20.08	21.11	20.49	21.51	21.91	20.48	21.51	20.89	21.91	22.31
	4H	20.82	21.74	21.25	22.16	22.60	21.23	22.16	21.67	22.57	23.01
	6H	21.42	22.22	21.87	22.66	23.12	21.87	22.67	22.33	23.12	23.58
	8H	21.61	22.36	22.08	22.81	23.28	22.12	22.88	22.59	23.32	23.79
	12H	21.75	22.43	22.24	22.91	23.38	22.35	23.02	22.83	23.50	23.97
8H	4H	21.14	21.89	21.60	22.33	22.80	21.50	22.26	21.97	22.70	23.17
	6H	21.86	22.48	22.36	22.98	23.45	22.28	22.90	22.78	23.39	23.87
	8H	22.13	22.69	22.65	23.20	23.69	22.62	23.18	23.14	23.69	24.18
	12H	22.35	22.85	22.86	23.34	23.91	22.94	23.44	23.45	23.93	24.50
12H	4H	21.17	21.84	21.65	22.32	22.79	21.52	22.19	22.01	22.67	23.15
	6H	21.92	22.49	22.44	23.00	23.48	22.32	22.88	22.84	23.40	23.88
	8H	22.26	22.75	22.77	23.25	23.81	22.73	23.23	23.24	23.72	24.28