

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: P893768

Luminaire Tested: 4MB-6SL-LVRF-UNV-L950

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893768
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-L950
Description: 6000 Lumen 4FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 90CRI, 5000K C
Light Source: -
Ballast/Driver: -

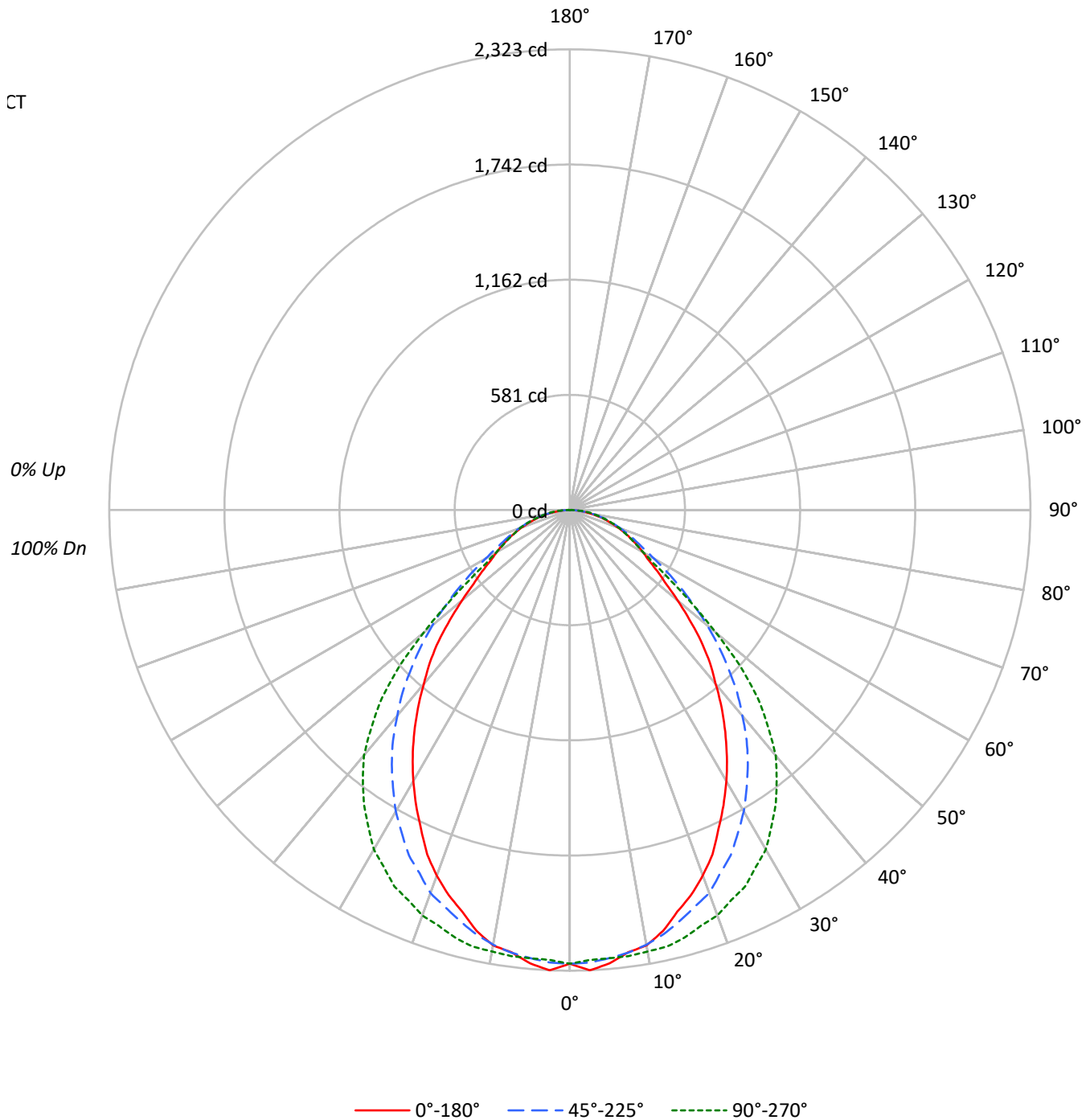
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4754.0 lumens
Efficiency: N/A
Efficacy: 107.1 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°	16275	16275	16275
5°	16388	16201	16201
10°	16105	16079	16328
15°	15438	15798	16446
20°	14852	15563	16473
25°	13932	15081	16435
30°	12968	14414	16242
35°	11871	13597	15725
40°	10628	12573	15003
45°	9431	11382	13489
50°	7847	10020	10638
55°	6684	8440	7732
60°	6059	6974	6110
65°	5707	6108	5687
70°	5369	5667	5542
75°	5003	5396	5297
80°	4581	4970	5118
85°	3984	4367	5731

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 13489 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.6	4.6
10°-20°	609.4	12.8
20°-30°	885.0	18.6
30°-40°	985.5	20.7
40°-50°	870.6	18.3
50°-60°	571.3	12.0
60°-70°	349.8	7.4
70°-80°	203.6	4.3
80°-90°	62.4	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°	1710.9	36.0
0°-40°	2696.4	56.7
0°-60°	4138.3	87.0
0°-90°	4754.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4754.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2287	2287	2287	2287	2287	
5°	2294	2296	2268	2291	2268	216
15°	2096	2120	2145	2229	2233	591
25°	1775	1818	1921	2044	2094	817
35°	1367	1440	1565	1731	1810	852
45°	937	994	1131	1284	1341	717
55°	539	577	680	674	623	489
65°	339	345	363	352	338	337
75°	182	184	196	200	193	193
85°	49	51	54	61	70	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2287.4	2287.4	2287.4	2287.4	2287.4
2.5°	2323.1	2294.5	2283.8	2294.5	2270.8
5°	2294.5	2295.7	2268.4	2291.0	2268.4
7.5°	2249.3	2264.8	2251.7	2286.2	2268.4
10°	2229.1	2230.3	2225.6	2261.2	2260.0
12.5°	2173.2	2176.8	2189.9	2243.4	2255.3
15°	2095.9	2119.7	2144.7	2229.1	2232.7
17.5°	2035.2	2063.8	2097.1	2187.5	2198.2
20°	1961.5	1973.4	2055.5	2135.2	2175.6
22.5°	1879.4	1902.0	1981.7	2088.8	2129.2
25°	1774.7	1817.6	1921.0	2043.6	2093.5
27.5°	1678.4	1728.3	1835.4	1972.2	2030.5
30°	1578.5	1635.6	1754.5	1888.9	1976.9
32.5°	1475.0	1546.3	1659.4	1814.0	1891.3
35°	1366.7	1440.5	1565.4	1730.7	1810.4
37.5°	1258.5	1329.9	1465.5	1642.7	1714.1
40°	1144.3	1214.5	1353.7	1533.3	1615.3
42.5°	1045.6	1106.2	1249.0	1402.4	1478.5
45°	937.3	994.4	1131.2	1283.5	1340.6
47.5°	818.4	885.0	1018.2	1143.1	1165.7
50°	708.9	777.9	905.2	977.8	961.1
52.5°	612.6	670.9	787.4	818.4	779.1
55°	538.8	576.9	680.4	674.4	623.3
57.5°	471.0	494.8	582.9	549.5	500.8
60°	425.8	436.5	490.1	459.1	429.4
62.5°	383.0	387.8	416.3	399.7	377.1
65°	339.0	345.0	362.8	352.1	337.8
67.5°	298.6	300.9	317.6	315.2	297.4
70°	258.1	261.7	272.4	277.2	266.4
72.5°	218.9	222.4	233.1	237.9	228.4
75°	182.0	184.4	196.3	199.8	192.7
77.5°	146.3	151.1	158.2	164.2	155.8
80°	111.8	114.2	121.3	128.5	124.9
82.5°	78.5	82.1	86.8	96.3	98.7
85°	48.8	51.1	53.5	60.7	70.2
87.5°	19.0	20.2	23.8	26.2	34.5
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	17.22	18.70	17.59	19.02	19.33	17.87	19.35	18.24	19.67	19.98
	3H	18.82	20.15	19.20	20.48	20.84	19.31	20.63	19.69	20.96	21.33
	4H	19.44	20.68	19.84	21.03	21.41	19.91	21.16	20.31	21.51	21.89
	6H	19.91	21.06	20.32	21.42	21.82	20.40	21.55	20.81	21.91	22.31
	8H	20.06	21.15	20.49	21.54	21.95	20.60	21.69	21.03	22.08	22.48
	12H	20.16	21.21	20.59	21.59	22.02	20.77	21.81	21.20	22.19	22.62
4H	2H	17.84	19.09	18.24	19.43	19.81	18.37	19.61	18.77	19.96	20.34
	3H	19.66	20.69	20.07	21.09	21.49	20.06	21.09	20.48	21.49	21.90
	4H	20.40	21.33	20.84	21.74	22.18	20.82	21.74	21.25	22.16	22.60
	6H	21.00	21.81	21.46	22.25	22.71	21.45	22.26	21.91	22.70	23.16
	8H	21.20	21.95	21.66	22.39	22.86	21.71	22.46	22.17	22.91	23.37
	12H	21.34	22.01	21.82	22.49	22.96	21.93	22.60	22.42	23.08	23.55
8H	4H	20.72	21.47	21.19	21.92	22.39	21.09	21.84	21.55	22.29	22.75
	6H	21.44	22.07	21.94	22.56	23.04	21.86	22.49	22.36	22.98	23.46
	8H	21.72	22.28	22.23	22.79	23.28	22.21	22.77	22.72	23.28	23.77
	12H	21.94	22.43	22.45	22.93	23.49	22.53	23.02	23.04	23.51	24.08
12H	4H	20.76	21.43	21.24	21.91	22.38	21.11	21.78	21.59	22.26	22.73
	6H	21.51	22.07	22.02	22.58	23.07	21.91	22.47	22.42	22.98	23.47
	8H	21.84	22.34	22.35	22.83	23.40	22.31	22.81	22.82	23.30	23.87