

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: P893638

Luminaire Tested: 4MB-5SL-LVR-UNV-L935

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893638
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-5SL-LVR-UNV-L935
Description: 5000 Lumen 4FT MICROBAY LINEAR BAY with LOUVER, 90CRI, 3500K CCT
Light Source: -
Ballast/Driver: -

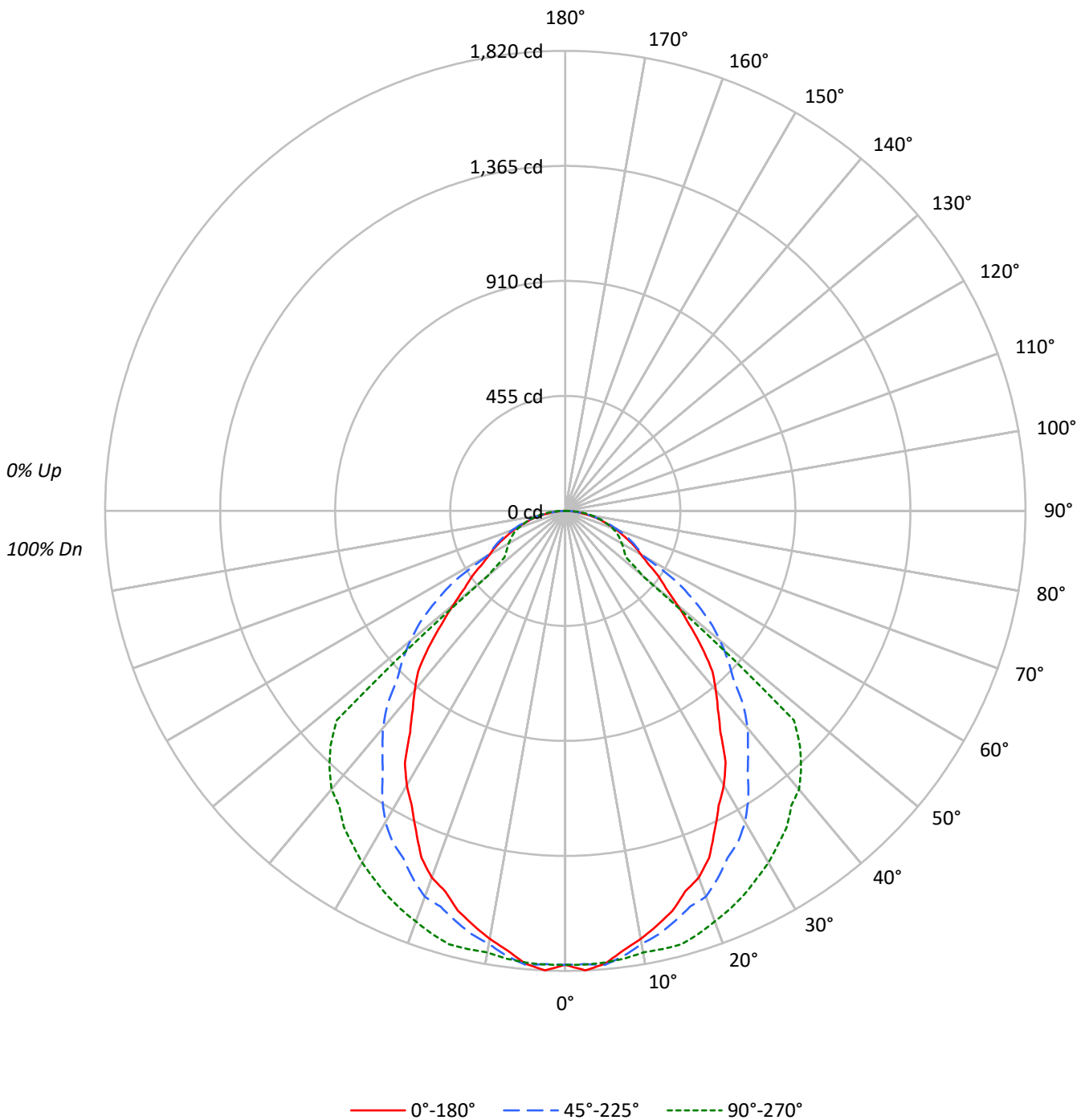
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3832.0 lumens
Efficiency: N/A
Efficacy: 109.5 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): 35
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 9.55
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°	12776	12776	12776
5°	12844	12877	12812
10°	12424	12569	12815
15°	12065	12369	13078
20°	11687	12298	13089
25°	10965	11901	13146
30°	10300	11686	13201
35°	9288	10929	13263
40°	8603	10426	13356
45°	7697	9449	13206
50°	6386	8852	4436
55°	5563	7770	3549
60°	4919	5063	3680
65°	4679	4926	3906
70°	4387	4656	4121
75°	4085	4387	4236
80°	3720	4134	4433
85°	3298	3518	4792

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 13206 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.3	4.4
10°-20°	479.1	12.5
20°-30°	704.8	18.4
30°-40°	806.0	21.0
40°-50°	763.2	19.9
50°-60°	420.5	11.0
60°-70°	270.0	7.0
70°-80°	166.6	4.3
80°-90°	51.3	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°	1354.3	35.3
0°-40°	2160.3	56.4
0°-60°	3344.1	87.3
0°-90°	3832.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3832.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1796	1796	1796	1796	1796	
5°	1798	1813	1803	1803	1794	169
15°	1638	1658	1679	1767	1776	460
25°	1397	1459	1516	1615	1675	643
35°	1069	1161	1258	1441	1527	676
45°	765	837	939	1205	1312	585
55°	448	470	626	323	286	401
65°	278	287	293	260	232	275
75°	149	151	160	168	154	158
85°	40	40	43	50	59	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1795.7	1795.7	1795.7	1795.7	1795.7
2.5°	1819.5	1824.1	1794.8	1793.8	1796.6
5°	1798.4	1813.1	1803.0	1803.0	1793.8
7.5°	1753.5	1778.3	1775.5	1796.6	1786.5
10°	1719.6	1739.7	1739.7	1794.8	1773.7
12.5°	1679.2	1702.1	1715.0	1772.8	1775.5
15°	1637.9	1658.1	1679.2	1767.3	1775.5
17.5°	1578.3	1615.0	1641.6	1727.8	1754.4
20°	1543.5	1565.5	1624.2	1693.9	1728.7
22.5°	1485.7	1517.8	1574.7	1652.6	1704.0
25°	1396.7	1459.1	1516.0	1615.0	1674.6
27.5°	1314.2	1361.0	1478.4	1582.9	1639.8
30°	1253.7	1290.4	1422.4	1536.1	1606.8
32.5°	1180.3	1239.9	1347.2	1490.3	1565.5
35°	1069.3	1161.0	1258.3	1440.8	1527.0
37.5°	991.4	1054.7	1186.7	1389.4	1469.2
40°	926.3	984.0	1122.5	1325.2	1438.0
42.5°	861.2	907.9	1041.8	1277.5	1380.2
45°	764.9	837.3	939.1	1205.1	1312.4
47.5°	664.0	741.0	872.2	1143.6	1226.2
50°	576.9	638.3	799.7	1021.6	400.8
52.5°	500.7	557.6	722.7	369.6	302.6
55°	448.5	470.5	626.4	322.8	286.1
57.5°	386.1	421.9	525.5	307.2	271.5
60°	345.7	361.3	355.8	291.6	258.6
62.5°	313.6	324.7	322.8	276.0	243.9
65°	277.9	287.1	292.6	260.5	232.0
67.5°	242.1	250.4	258.6	241.2	215.5
70°	210.9	216.4	223.8	218.3	198.1
72.5°	178.8	185.3	189.8	194.4	175.2
75°	148.6	151.3	159.6	167.8	154.1
77.5°	121.1	123.8	129.3	138.5	131.1
80°	90.8	93.5	100.9	108.2	108.2
82.5°	64.2	66.0	70.6	80.7	85.3
85°	40.4	40.4	43.1	49.5	58.7
87.5°	15.6	15.6	18.3	22.0	29.3
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	16.80	18.28	17.17	18.60	18.91	14.60	16.09	14.97	16.40	16.71
	3H	18.33	19.65	18.71	19.98	20.34	16.93	18.26	17.31	18.59	18.95
	4H	18.92	20.16	19.32	20.51	20.89	17.88	19.13	18.28	19.48	19.86
	6H	19.38	20.52	19.79	20.89	21.28	18.67	19.82	19.08	20.18	20.58
	8H	19.52	20.61	19.95	21.00	21.40	18.98	20.07	19.41	20.46	20.86
	12H	19.62	20.66	20.05	21.05	21.47	19.23	20.27	19.66	20.66	21.08
4H	2H	17.35	18.60	17.75	18.94	19.32	15.71	16.95	16.11	17.30	17.68
	3H	19.12	20.15	19.54	20.55	20.96	18.15	19.18	18.56	19.58	19.98
	4H	19.84	20.77	20.28	21.19	21.63	19.22	20.15	19.65	20.56	21.00
	6H	20.43	21.23	20.89	21.68	22.14	20.11	20.91	20.57	21.36	21.82
	8H	20.62	21.37	21.08	21.82	22.28	20.46	21.21	20.92	21.66	22.12
	12H	20.76	21.43	21.24	21.91	22.38	20.75	21.42	21.23	21.90	22.37
8H	4H	20.15	20.90	20.62	21.35	21.82	19.61	20.36	20.07	20.80	21.27
	6H	20.86	21.49	21.36	21.98	22.46	20.64	21.27	21.14	21.76	22.24
	8H	21.12	21.69	21.64	22.20	22.68	21.09	21.65	21.60	22.16	22.65
	12H	21.33	21.83	21.84	22.32	22.89	21.47	21.97	21.98	22.46	23.03
12H	4H	20.19	20.86	20.67	21.34	21.81	19.64	20.31	20.12	20.79	21.26
	6H	20.93	21.49	21.44	22.00	22.49	20.71	21.27	21.22	21.78	22.27
	8H	21.25	21.75	21.76	22.24	22.80	21.21	21.71	21.72	22.21	22.77