

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: P894242

Luminaire Tested: 4MB-SC3-LVR-UNV-CC93-MID-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894242
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-SC3-LVR-UNV-CC93-MID-5000K
Description: Selectable 4FT MICROBAY LINEAR BAY with LOUVER, 90CRI, 5000K CCT, MID lumen setting
Light Source: -
Ballast/Driver: -

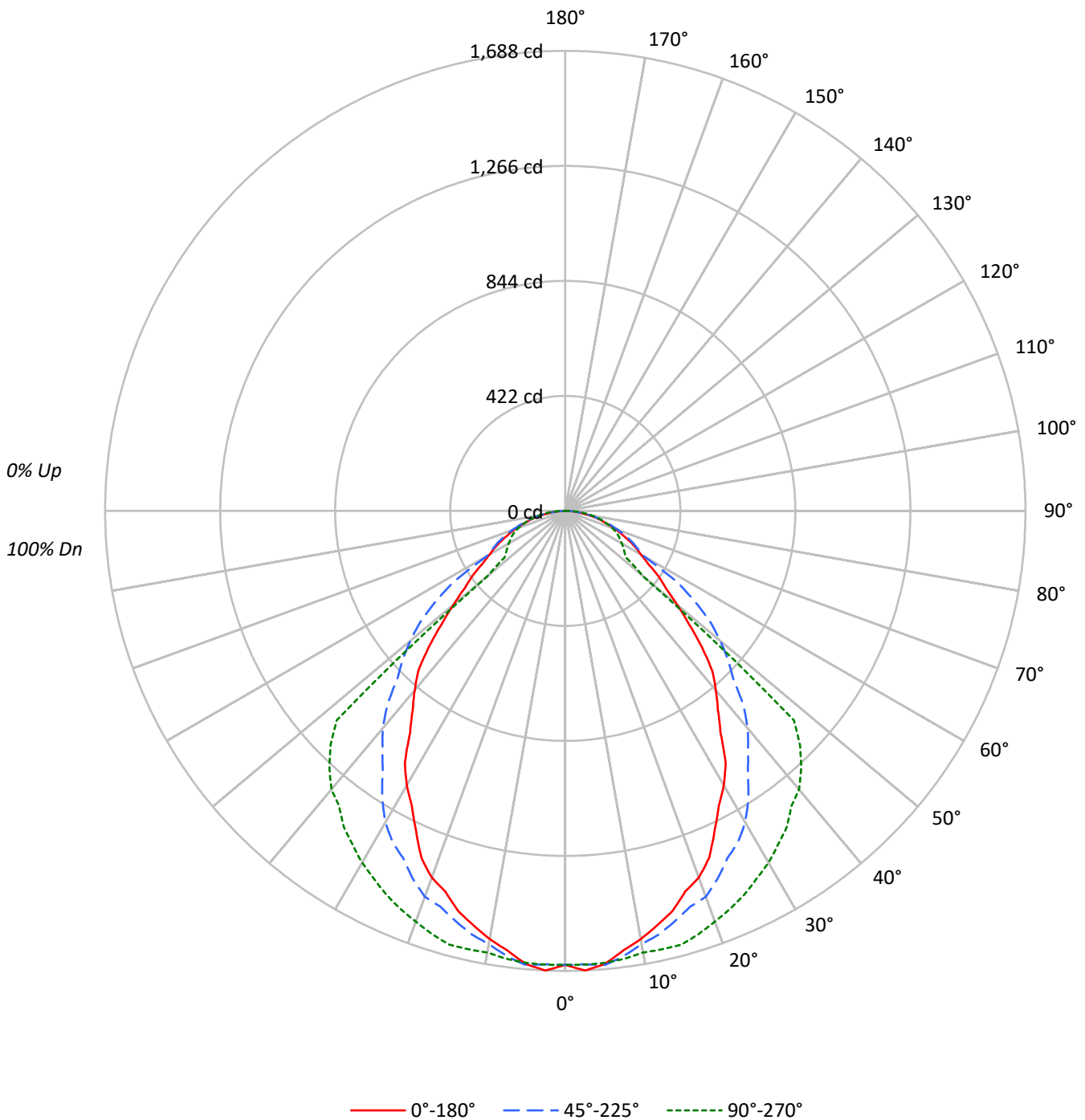
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3555.0 lumens
Efficiency: N/A
Efficacy: 106.1 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): 33.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.9948
Total Harmonic Distortion (THDi): 5.65231997856897
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°	11853	11853	11853
5°	11916	11947	11886
10°	11526	11661	11888
15°	11193	11475	12133
20°	10842	11409	12143
25°	10173	11041	12197
30°	9556	10841	12246
35°	8616	10139	12304
40°	7981	9672	12391
45°	7140	8766	12251
50°	5924	8212	4115
55°	5160	7208	3293
60°	4565	4697	3414
65°	4340	4569	3625
70°	4071	4319	3824
75°	3788	4069	3928
80°	3450	3835	4114
85°	3053	3265	4449

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 12251 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.0	4.4
10°-20°	444.5	12.5
20°-30°	653.9	18.4
30°-40°	747.8	21.0
40°-50°	708.1	19.9
50°-60°	390.1	11.0
60°-70°	250.5	7.0
70°-80°	154.6	4.3
80°-90°	47.6	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°	1256.4	35.3
0°-40°	2004.2	56.4
0°-60°	3102.4	87.3
0°-90°	3555.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3555.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1666	1666	1666	1666	1666	
5°	1668	1682	1673	1673	1664	156
15°	1520	1538	1558	1640	1647	427
25°	1296	1354	1406	1498	1554	597
35°	992	1077	1167	1337	1417	627
45°	710	777	871	1118	1218	543
55°	416	436	581	300	266	372
65°	258	266	271	242	215	255
75°	138	140	148	156	143	147
85°	37	37	40	46	54	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1665.9	1665.9	1665.9	1665.9	1665.9
2.5°	1688.0	1692.3	1665.0	1664.2	1666.7
5°	1668.4	1682.0	1672.7	1672.7	1664.2
7.5°	1626.7	1649.7	1647.2	1666.7	1657.4
10°	1595.3	1614.0	1614.0	1665.0	1645.5
12.5°	1557.8	1579.1	1591.0	1644.6	1647.2
15°	1519.5	1538.3	1557.8	1639.5	1647.2
17.5°	1464.2	1498.3	1522.9	1602.9	1627.6
20°	1431.9	1452.3	1506.8	1571.4	1603.8
22.5°	1378.3	1408.1	1460.8	1533.2	1580.8
25°	1295.8	1353.6	1406.4	1498.3	1553.6
27.5°	1219.2	1262.6	1371.5	1468.5	1521.2
30°	1163.1	1197.1	1319.6	1425.1	1490.6
32.5°	1095.0	1150.3	1249.8	1382.6	1452.3
35°	992.0	1077.1	1167.3	1336.6	1416.6
37.5°	919.7	978.4	1100.9	1289.0	1363.0
40°	859.3	912.9	1041.4	1229.4	1334.1
42.5°	798.9	842.3	966.5	1185.2	1280.5
45°	709.6	776.8	871.2	1118.0	1217.5
47.5°	616.0	687.5	809.1	1061.0	1137.5
50°	535.2	592.2	741.9	947.8	371.8
52.5°	464.5	517.3	670.4	342.9	280.8
55°	416.0	436.5	581.1	299.5	265.5
57.5°	358.2	391.4	487.5	285.0	251.8
60°	320.8	335.2	330.1	270.6	239.9
62.5°	291.0	301.2	299.5	256.1	226.3
65°	257.8	266.3	271.4	241.6	215.3
67.5°	224.6	232.3	239.9	223.8	199.9
70°	195.7	200.8	207.6	202.5	183.8
72.5°	165.9	171.9	176.1	180.4	162.5
75°	137.8	140.4	148.0	155.7	142.9
77.5°	112.3	114.9	120.0	128.5	121.7
80°	84.2	86.8	93.6	100.4	100.4
82.5°	59.6	61.3	65.5	74.9	79.1
85°	37.4	37.4	40.0	45.9	54.5
87.5°	14.5	14.5	17.0	20.4	27.2
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	16.54	18.02	16.91	18.34	18.65	14.34	15.82	14.71	16.14	16.45
	3H	18.07	19.39	18.45	19.72	20.08	16.67	18.00	17.05	18.33	18.69
	4H	18.66	19.90	19.06	20.25	20.63	17.62	18.87	18.02	19.22	19.59
	6H	19.12	20.26	19.53	20.63	21.02	18.41	19.56	18.82	19.92	20.31
	8H	19.26	20.35	19.69	20.74	21.14	18.72	19.81	19.15	20.20	20.60
	12H	19.36	20.40	19.79	20.78	21.21	18.97	20.01	19.40	20.40	20.82
4H	2H	17.09	18.33	17.49	18.68	19.06	15.45	16.69	15.85	17.04	17.42
	3H	18.86	19.89	19.27	20.29	20.69	17.89	18.92	18.30	19.32	19.72
	4H	19.58	20.51	20.02	20.93	21.36	18.96	19.88	19.39	20.30	20.74
	6H	20.17	20.97	20.63	21.42	21.88	19.85	20.65	20.31	21.10	21.56
	8H	20.36	21.11	20.82	21.56	22.02	20.20	20.95	20.66	21.40	21.86
	12H	20.50	21.17	20.98	21.65	22.12	20.49	21.16	20.97	21.64	22.11
8H	4H	19.89	20.64	20.35	21.09	21.56	19.35	20.10	19.81	20.54	21.01
	6H	20.60	21.23	21.10	21.72	22.20	20.38	21.01	20.88	21.50	21.98
	8H	20.86	21.43	21.38	21.94	22.42	20.83	21.39	21.34	21.90	22.39
	12H	21.07	21.57	21.58	22.06	22.63	21.21	21.71	21.72	22.20	22.77
12H	4H	19.93	20.60	20.41	21.08	21.55	19.38	20.05	19.86	20.53	21.00
	6H	20.67	21.23	21.18	21.74	22.23	20.45	21.01	20.96	21.52	22.01
	8H	20.99	21.49	21.50	21.98	22.54	20.95	21.45	21.46	21.95	22.51