

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: P894278

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

Issue Date: 11/11/2024

**Test Information**

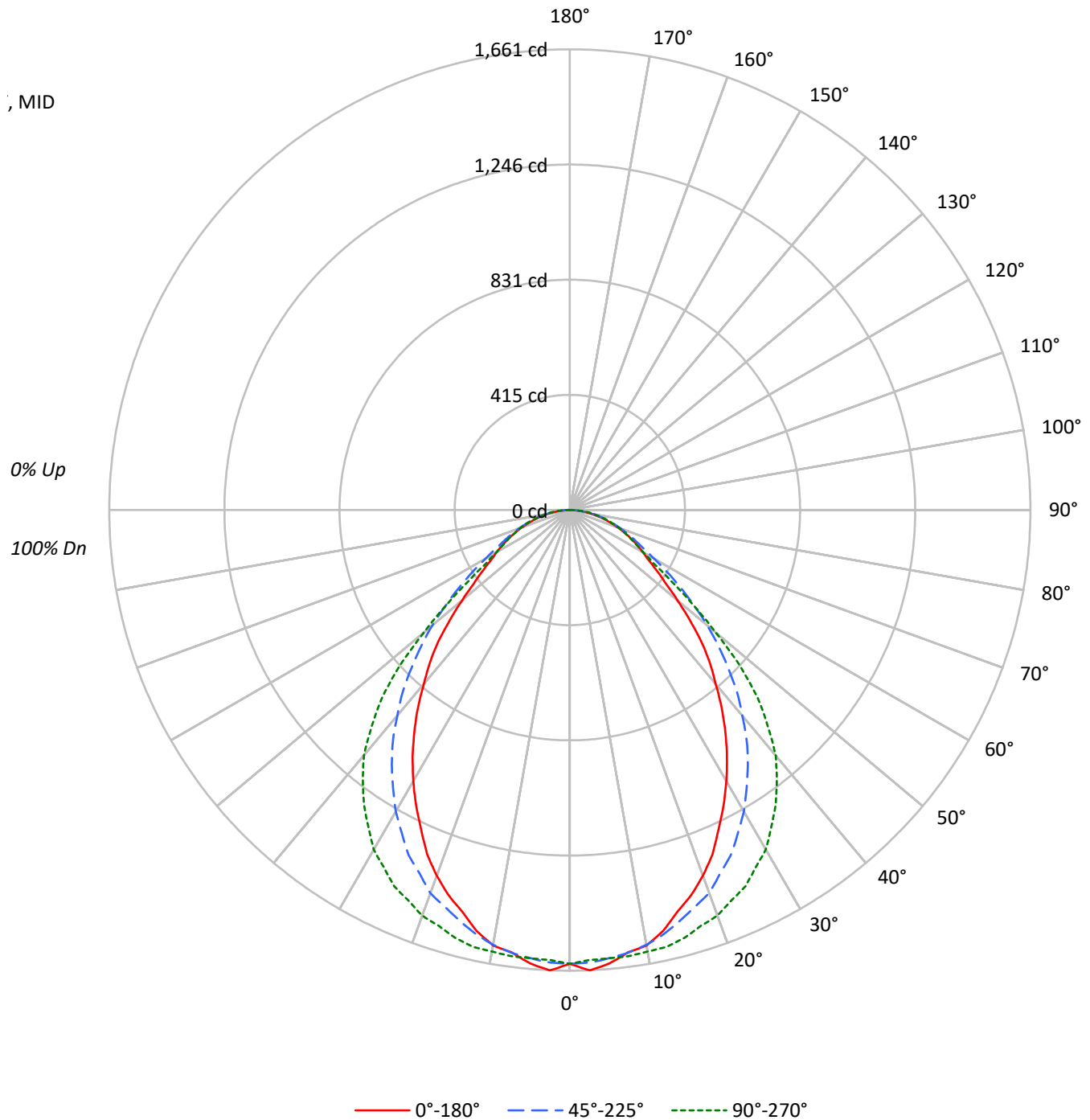
Test Method: LM-79-2019  
Report Number: P894278  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 4MB-SC3-LVRF-UNV-CC93-MID-5000K  
Description: Selectable 4FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 90CRI, 5000K CCT  
lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3400.0 lumens  
Efficiency: N/A  
Efficacy: 101.5 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): 33.5  
Input Voltage (V): 120  
Input Current (Ain): 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	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°	11639	11639	11639
5°	11720	11587	11587
10°	11518	11500	11678
15°	11042	11298	11762
20°	10621	11130	11781
25°	9965	10786	11755
30°	9275	10309	11616
35°	8490	9724	11246
40°	7601	8992	10730
45°	6746	8140	9648
50°	5612	7166	7609
55°	4781	6036	5530
60°	4334	4988	4370
65°	4083	4369	4067
70°	3840	4052	3965
75°	3579	3860	3788
80°	3278	3557	3659
85°	2849	3127	4098

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 9648 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.9	4.6
10°-20°	435.8	12.8
20°-30°	632.9	18.6
30°-40°	704.8	20.7
40°-50°	622.7	18.3
50°-60°	408.6	12.0
60°-70°	250.2	7.4
70°-80°	145.6	4.3
80°-90°	44.6	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°	1223.6	36.0
0°-40°	1928.4	56.7
0°-60°	2959.6	87.0
0°-90°	3400.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3400.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1636	1636	1636	1636	1636	
5°	1641	1642	1622	1638	1622	155
15°	1499	1516	1534	1594	1597	423
25°	1269	1300	1374	1462	1497	584
35°	978	1030	1120	1238	1295	610
45°	670	711	809	918	959	513
55°	385	413	487	482	446	350
65°	242	247	260	252	242	241
75°	130	132	140	143	138	138
85°	35	37	38	43	50	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1635.9	1635.9	1635.9	1635.9	1635.9
2.5°	1661.4	1641.0	1633.4	1641.0	1624.0
5°	1641.0	1641.9	1622.3	1638.5	1622.3
7.5°	1608.7	1619.8	1610.4	1635.1	1622.3
10°	1594.2	1595.1	1591.7	1617.2	1616.4
12.5°	1554.3	1556.8	1566.2	1604.4	1613.0
15°	1499.0	1516.0	1533.8	1594.2	1596.8
17.5°	1455.6	1476.0	1499.8	1564.5	1572.1
20°	1402.8	1411.3	1470.0	1527.0	1556.0
22.5°	1344.1	1360.3	1417.3	1493.9	1522.8
25°	1269.3	1299.9	1373.9	1461.5	1497.3
27.5°	1200.4	1236.1	1312.7	1410.5	1452.2
30°	1128.9	1169.7	1254.8	1350.9	1413.9
32.5°	1054.9	1105.9	1186.7	1297.3	1352.6
35°	977.5	1030.2	1119.5	1237.8	1294.8
37.5°	900.1	951.1	1048.1	1174.8	1225.9
40°	818.4	868.6	968.1	1096.6	1155.3
42.5°	747.8	791.2	893.3	1003.0	1057.4
45°	670.4	711.2	809.0	917.9	958.8
47.5°	585.3	632.9	728.2	817.5	833.7
50°	507.0	556.4	647.4	699.3	687.4
52.5°	438.1	479.8	563.2	585.3	557.2
55°	385.4	412.6	486.6	482.4	445.8
57.5°	336.9	353.9	416.9	393.0	358.2
60°	304.6	312.2	350.5	328.4	307.1
62.5°	273.9	277.3	297.8	285.8	269.7
65°	242.5	246.7	259.5	251.8	241.6
67.5°	213.5	215.2	227.1	225.4	212.7
70°	184.6	187.2	194.8	198.2	190.6
72.5°	156.5	159.1	166.7	170.1	163.3
75°	130.2	131.9	140.4	142.9	137.8
77.5°	104.6	108.0	113.1	117.4	111.4
80°	80.0	81.7	86.8	91.9	89.3
82.5°	56.1	58.7	62.1	68.9	70.6
85°	34.9	36.6	38.3	43.4	50.2
87.5°	13.6	14.5	17.0	18.7	24.7
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	16.06	17.54	16.42	17.85	18.17	16.71	18.19	17.07	18.50	18.82
	3H	17.66	18.98	18.04	19.31	19.67	18.14	19.47	18.52	19.80	20.16
	4H	18.27	19.52	18.68	19.87	20.25	18.75	19.99	19.15	20.34	20.72
	6H	18.75	19.89	19.16	20.26	20.65	19.24	20.38	19.65	20.75	21.14
	8H	18.90	19.99	19.32	20.38	20.78	19.43	20.52	19.86	20.91	21.32
	12H	19.00	20.04	19.43	20.42	20.85	19.60	20.65	20.03	21.03	21.46
4H	2H	16.68	17.92	17.08	18.27	18.65	17.20	18.44	17.60	18.79	19.17
	3H	18.50	19.53	18.91	19.93	20.33	18.90	19.93	19.31	20.33	20.73
	4H	19.24	20.16	19.67	20.58	21.02	19.65	20.58	20.09	20.99	21.43
	6H	19.84	20.64	20.29	21.08	21.54	20.29	21.09	20.75	21.54	22.00
	8H	20.03	20.79	20.50	21.23	21.70	20.54	21.30	21.01	21.74	22.21
	12H	20.17	20.85	20.66	21.33	21.80	20.77	21.44	21.25	21.92	22.39
8H	4H	19.56	20.31	20.02	20.75	21.22	19.92	20.68	20.39	21.12	21.59
	6H	20.28	20.90	20.78	21.40	21.87	20.70	21.32	21.20	21.81	22.29
	8H	20.55	21.11	21.07	21.62	22.11	21.04	21.60	21.56	22.11	22.60
	12H	20.77	21.27	21.28	21.76	22.33	21.36	21.86	21.87	22.35	22.92
12H	4H	19.59	20.26	20.07	20.74	21.21	19.94	20.61	20.43	21.09	21.57
	6H	20.34	20.91	20.86	21.42	21.91	20.74	21.30	21.26	21.82	22.30
	8H	20.68	21.17	21.19	21.67	22.23	21.15	21.65	21.66	22.14	22.70