

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: P894276

Luminaire Tested: 4MB-SC3-LVRF-UNV-CC93-MID-3500K

Issue Date: 11/11/2024

**Test Information**

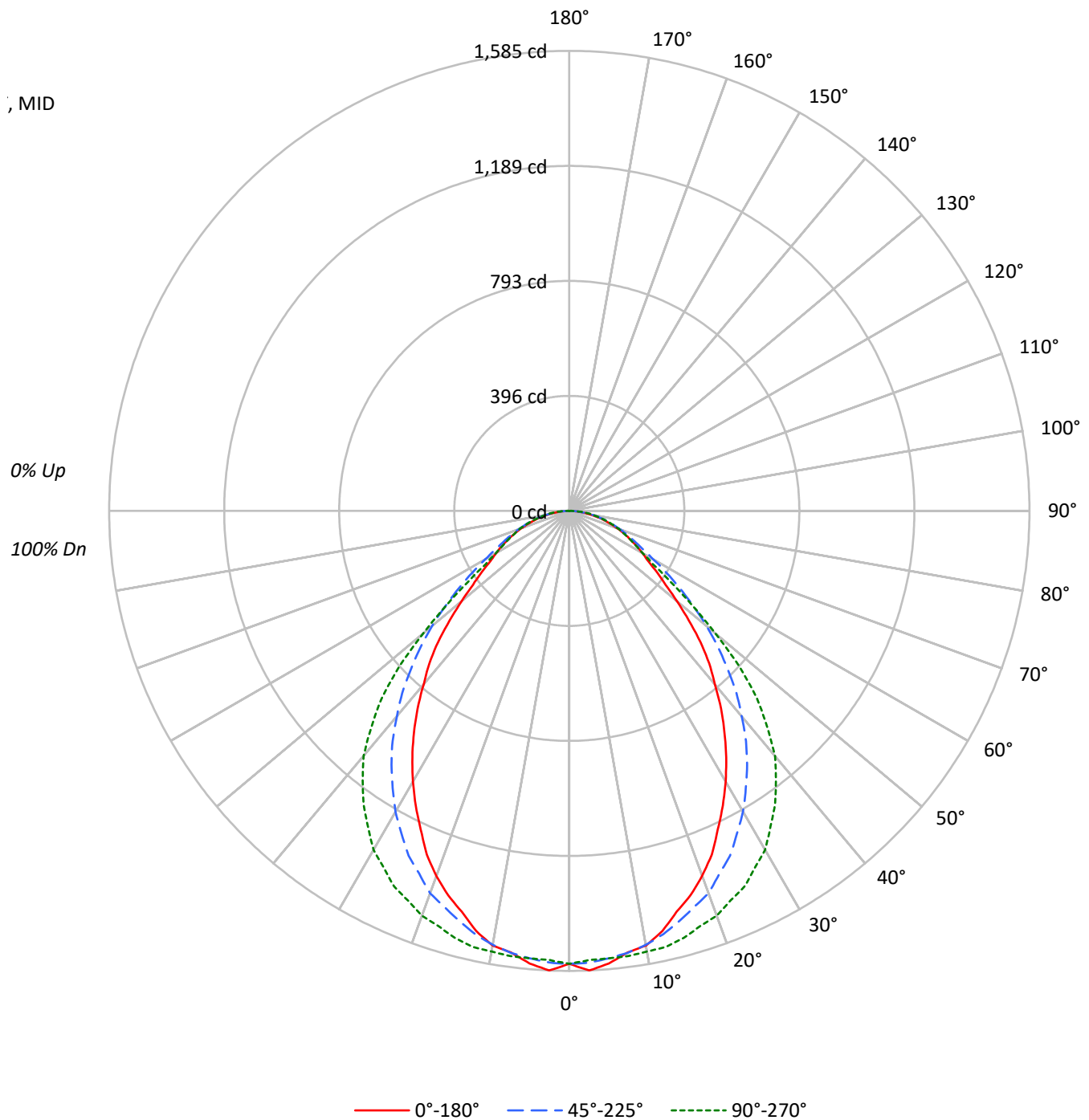
Test Method: LM-79-2019  
Report Number: P894276  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 4MB-SC3-LVRF-UNV-CC93-MID-3500K  
Description: Selectable 4FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 90CRI, 3500K CCT  
lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3243.0 lumens  
Efficiency: N/A  
Efficacy: 96.8 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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	100	
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87	87	
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	75	75	
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	71	67	65	65	
4	87	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59	57	57	
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	56	52	50	50	
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	45	45	
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40	40	
8	65	52	44	39	63	52	44	39	50	44	39	49	43	38	48	42	38	36	36	
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	33	33	
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30	30	

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	11102	11102	11102
5°	11180	11052	11052
10°	10986	10969	11138
15°	10531	10776	11219
20°	10132	10617	11237
25°	9505	10288	11211
30°	8847	9833	11080
35°	8098	9275	10727
40°	7250	8577	10234
45°	6434	7765	9202
50°	5353	6835	7257
55°	4560	5757	5274
60°	4134	4757	4168
65°	3894	4167	3879
70°	3663	3865	3782
75°	3412	3681	3615
80°	3126	3393	3491
85°	2718	2980	3910

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 9202 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.7	4.6
10°-20°	415.7	12.8
20°-30°	603.7	18.6
30°-40°	672.2	20.7
40°-50°	593.9	18.3
50°-60°	389.7	12.0
60°-70°	238.6	7.4
70°-80°	138.9	4.3
80°-90°	42.5	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°	1167.1	36.0
0°-40°	1839.4	56.7
0°-60°	2823.0	87.0
0°-90°	3243.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3243.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1560	1560	1560	1560	1560	
5°	1565	1566	1547	1563	1547	148
15°	1430	1446	1463	1521	1523	403
25°	1211	1240	1310	1394	1428	557
35°	932	983	1068	1181	1235	581
45°	639	678	772	876	914	489
55°	368	394	464	460	425	333
65°	231	235	248	240	230	230
75°	124	126	134	136	132	132
85°	33	35	36	41	48	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1560.4	1560.4	1560.4	1560.4	1560.4
2.5°	1584.7	1565.3	1557.9	1565.3	1549.0
5°	1565.3	1566.1	1547.4	1562.8	1547.4
7.5°	1534.4	1545.0	1536.0	1559.6	1547.4
10°	1520.6	1521.4	1518.2	1542.5	1541.7
12.5°	1482.5	1484.9	1493.8	1530.4	1538.5
15°	1429.7	1446.0	1463.0	1520.6	1523.1
17.5°	1388.4	1407.8	1430.6	1492.2	1499.5
20°	1338.1	1346.2	1402.2	1456.5	1484.1
22.5°	1282.1	1297.5	1351.8	1424.9	1452.5
25°	1210.7	1239.9	1310.5	1394.0	1428.1
27.5°	1144.9	1179.0	1252.0	1345.4	1385.1
30°	1076.8	1115.7	1196.9	1288.6	1348.6
32.5°	1006.2	1054.9	1131.9	1237.4	1290.2
35°	932.3	982.6	1067.8	1180.6	1235.0
37.5°	858.5	907.2	999.7	1120.6	1169.3
40°	780.6	828.5	923.4	1045.9	1101.9
42.5°	713.2	754.6	852.0	956.7	1008.6
45°	639.4	678.4	771.7	875.5	914.5
47.5°	558.3	603.7	694.6	779.8	795.2
50°	483.6	530.7	617.5	667.0	655.6
52.5°	417.9	457.6	537.2	558.3	531.5
55°	367.6	393.5	464.1	460.1	425.2
57.5°	321.3	337.6	397.6	374.9	341.6
60°	290.5	297.8	334.3	313.2	292.9
62.5°	261.3	264.5	284.0	272.6	257.2
65°	231.3	235.3	247.5	240.2	230.4
67.5°	203.7	205.3	216.7	215.0	202.9
70°	176.1	178.5	185.8	189.1	181.8
72.5°	149.3	151.7	159.0	162.3	155.8
75°	124.1	125.8	133.9	136.3	131.5
77.5°	99.8	103.1	107.9	112.0	106.3
80°	76.3	77.9	82.8	87.6	85.2
82.5°	53.6	56.0	59.2	65.7	67.3
85°	33.3	34.9	36.5	41.4	47.9
87.5°	13.0	13.8	16.2	17.9	23.5
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	15.89	17.37	16.26	17.69	18.00	16.54	18.03	16.91	18.34	18.65
	3H	17.49	18.82	17.87	19.15	19.51	17.98	19.31	18.36	19.63	20.00
	4H	18.11	19.35	18.51	19.70	20.08	18.59	19.83	18.99	20.18	20.56
	6H	18.58	19.73	18.99	20.10	20.49	19.07	20.22	19.49	20.59	20.98
	8H	18.73	19.83	19.16	20.22	20.62	19.27	20.36	19.70	20.75	21.15
	12H	18.83	19.88	19.27	20.26	20.69	19.44	20.48	19.87	20.86	21.29
4H	2H	16.52	17.76	16.92	18.11	18.49	17.04	18.28	17.44	18.63	19.01
	3H	18.34	19.36	18.75	19.76	20.17	18.74	19.76	19.15	20.17	20.57
	4H	19.07	20.00	19.51	20.42	20.86	19.49	20.41	19.92	20.83	21.27
	6H	19.67	20.48	20.13	20.92	21.38	20.12	20.93	20.58	21.37	21.83
	8H	19.87	20.62	20.33	21.07	21.53	20.38	21.13	20.84	21.58	22.04
	12H	20.01	20.68	20.49	21.16	21.63	20.60	21.28	21.09	21.75	22.23
8H	4H	19.39	20.14	19.86	20.59	21.06	19.76	20.51	20.22	20.96	21.42
	6H	20.12	20.74	20.61	21.23	21.71	20.53	21.16	21.03	21.65	22.13
	8H	20.39	20.95	20.90	21.46	21.95	20.88	21.44	21.39	21.95	22.44
	12H	20.61	21.10	21.12	21.60	22.16	21.20	21.69	21.71	22.19	22.75
12H	4H	19.43	20.10	19.91	20.58	21.05	19.78	20.45	20.26	20.93	21.40
	6H	20.18	20.74	20.70	21.25	21.74	20.58	21.14	21.09	21.65	22.14
	8H	20.51	21.01	21.02	21.50	22.07	20.98	21.48	21.50	21.97	22.54