

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: P894268

Luminaire Tested: 4MB-SC3-LVRF-UNV-CC83-MID-4000K

Issue Date: 11/11/2024

**Test Information**

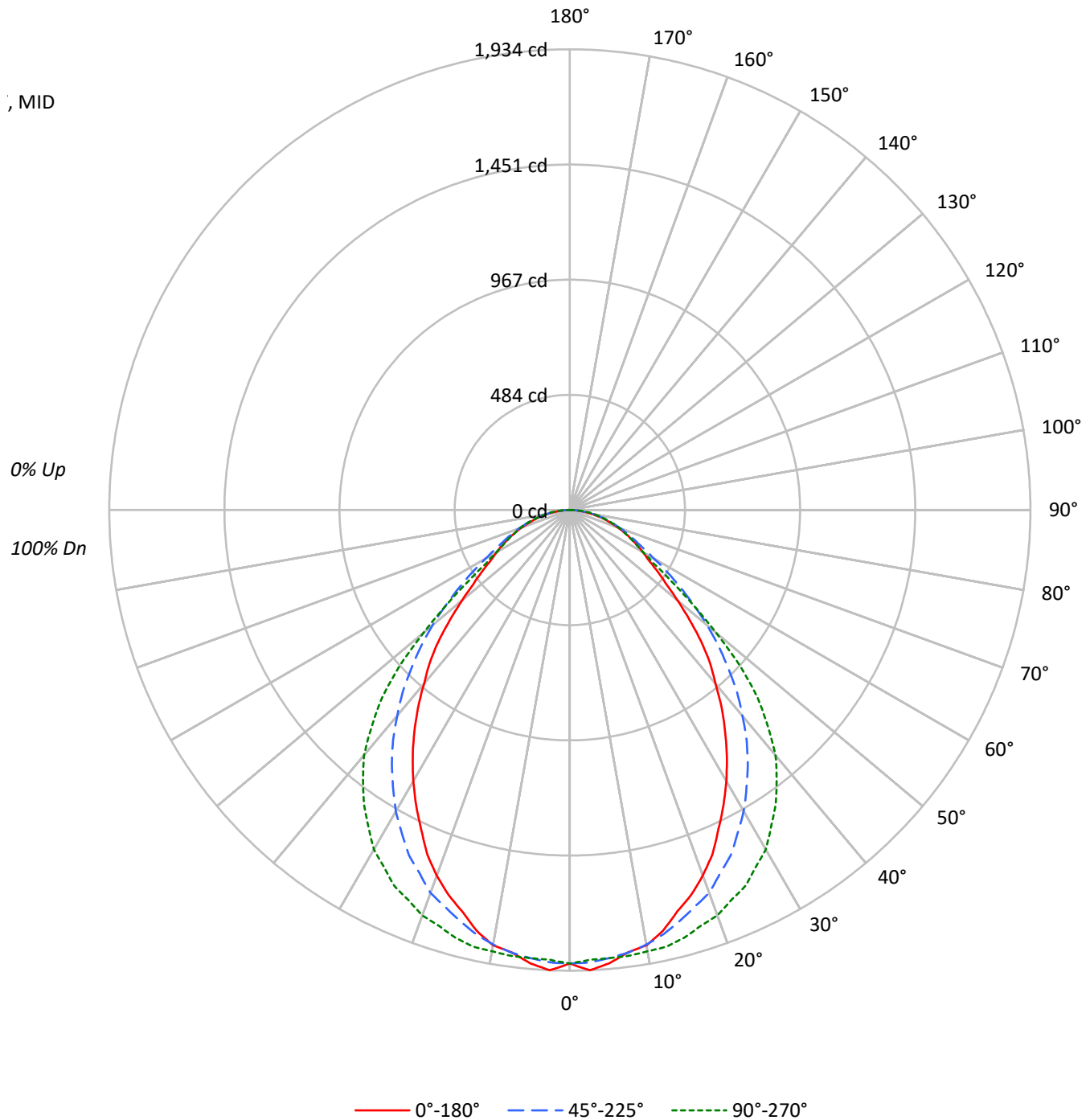
Test Method: LM-79-2019  
Report Number: P894268  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 4MB-SC3-LVRF-UNV-CC83-MID-4000K  
Description: Selectable 4FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 80CRI, 4000K CCT  
lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3957.0 lumens  
Efficiency: N/A  
Efficacy: 118.1 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): 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°	13546	13546	13546
5°	13641	13485	13485
10°	13405	13383	13591
15°	12850	13149	13689
20°	12361	12954	13711
25°	11597	12553	13680
30°	10794	11998	13519
35°	9881	11317	13089
40°	8847	10465	12488
45°	7850	9474	11227
50°	6532	8340	8855
55°	5563	7025	6436
60°	5043	5804	5086
65°	4751	5084	4734
70°	4468	4716	4614
75°	4165	4492	4409
80°	3815	4138	4261
85°	3314	3641	4768

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 11227 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	180.3	4.6
10°-20°	507.2	12.8
20°-30°	736.6	18.6
30°-40°	820.2	20.7
40°-50°	724.7	18.3
50°-60°	475.5	12.0
60°-70°	291.2	7.4
70°-80°	169.4	4.3
80°-90°	51.9	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°	1424.1	36.0
0°-40°	2244.3	56.7
0°-60°	3444.5	87.0
0°-90°	3957.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3957.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1904	1904	1904	1904	1904	
5°	1910	1911	1888	1907	1888	180
15°	1744	1764	1785	1855	1858	492
25°	1477	1513	1599	1701	1742	680
35°	1138	1199	1303	1441	1507	710
45°	780	828	942	1068	1116	597
55°	448	480	566	561	519	407
65°	282	287	302	293	281	281
75°	152	154	163	166	160	161
85°	41	43	45	50	58	46
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1903.9	1903.9	1903.9	1903.9	1903.9
2.5°	1933.6	1909.9	1901.0	1909.9	1890.1
5°	1909.9	1910.9	1888.1	1906.9	1888.1
7.5°	1872.2	1885.1	1874.2	1902.9	1888.1
10°	1855.4	1856.4	1852.4	1882.1	1881.2
12.5°	1808.9	1811.8	1822.7	1867.3	1877.2
15°	1744.5	1764.3	1785.1	1855.4	1858.4
17.5°	1694.0	1717.8	1745.5	1820.8	1829.7
20°	1632.6	1642.5	1710.9	1777.2	1810.9
22.5°	1564.3	1583.1	1649.5	1738.6	1772.2
25°	1477.2	1512.8	1599.0	1701.0	1742.5
27.5°	1397.0	1438.6	1527.7	1641.6	1690.1
30°	1313.8	1361.4	1460.4	1572.2	1645.5
32.5°	1227.7	1287.1	1381.2	1509.9	1574.2
35°	1137.6	1199.0	1302.9	1440.6	1506.9
37.5°	1047.5	1106.9	1219.8	1367.3	1426.7
40°	952.5	1010.9	1126.7	1276.2	1344.5
42.5°	870.3	920.8	1039.6	1167.3	1230.7
45°	780.2	827.7	941.6	1068.3	1115.8
47.5°	681.2	736.6	847.5	951.5	970.3
50°	590.1	647.5	753.5	813.8	800.0
52.5°	509.9	558.4	655.4	681.2	648.5
55°	448.5	480.2	566.3	561.4	518.8
57.5°	392.1	411.9	485.1	457.4	416.8
60°	354.4	363.4	407.9	382.2	357.4
62.5°	318.8	322.8	346.5	332.7	313.9
65°	282.2	287.1	302.0	293.1	281.2
67.5°	248.5	250.5	264.4	262.4	247.5
70°	214.8	217.8	226.7	230.7	221.8
72.5°	182.2	185.1	194.1	198.0	190.1
75°	151.5	153.5	163.4	166.3	160.4
77.5°	121.8	125.7	131.7	136.6	129.7
80°	93.1	95.0	101.0	106.9	104.0
82.5°	65.3	68.3	72.3	80.2	82.2
85°	40.6	42.6	44.6	50.5	58.4
87.5°	15.8	16.8	19.8	21.8	28.7
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	16.58	18.07	16.95	18.38	18.69	17.24	18.72	17.60	19.03	19.34
	3H	18.19	19.51	18.56	19.84	20.20	18.67	20.00	19.05	20.33	20.69
	4H	18.80	20.04	19.20	20.39	20.77	19.28	20.52	19.68	20.87	21.25
	6H	19.27	20.42	19.69	20.79	21.18	19.76	20.91	20.18	21.28	21.67
	8H	19.42	20.52	19.85	20.91	21.31	19.96	21.05	20.39	21.44	21.84
	12H	19.52	20.57	19.96	20.95	21.38	20.13	21.17	20.56	21.55	21.98
4H	2H	17.21	18.45	17.61	18.80	19.18	17.73	18.97	18.13	19.32	19.70
	3H	19.03	20.05	19.44	20.46	20.86	19.43	20.46	19.84	20.86	21.26
	4H	19.77	20.69	20.20	21.11	21.55	20.18	21.11	20.61	21.52	21.96
	6H	20.36	21.17	20.82	21.61	22.07	20.82	21.62	21.27	22.06	22.52
	8H	20.56	21.31	21.02	21.76	22.22	21.07	21.82	21.54	22.27	22.74
	12H	20.70	21.37	21.18	21.85	22.32	21.29	21.97	21.78	22.45	22.92
8H	4H	20.08	20.84	20.55	21.28	21.75	20.45	21.20	20.91	21.65	22.12
	6H	20.81	21.43	21.31	21.92	22.40	21.23	21.85	21.72	22.34	22.82
	8H	21.08	21.64	21.60	22.15	22.64	21.57	22.13	22.09	22.64	23.13
	12H	21.30	21.80	21.81	22.29	22.85	21.89	22.38	22.40	22.88	23.44
12H	4H	20.12	20.79	20.60	21.27	21.74	20.47	21.14	20.95	21.62	22.09
	6H	20.87	21.43	21.39	21.94	22.43	21.27	21.83	21.79	22.34	22.83
	8H	21.20	21.70	21.72	22.19	22.76	21.68	22.17	22.19	22.67	23.23