

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: P894233

Luminaire Tested: 4MB-SC3-LVR-UNV-CC83-MID-5000K

Issue Date: 11/11/2024

**Test Information**

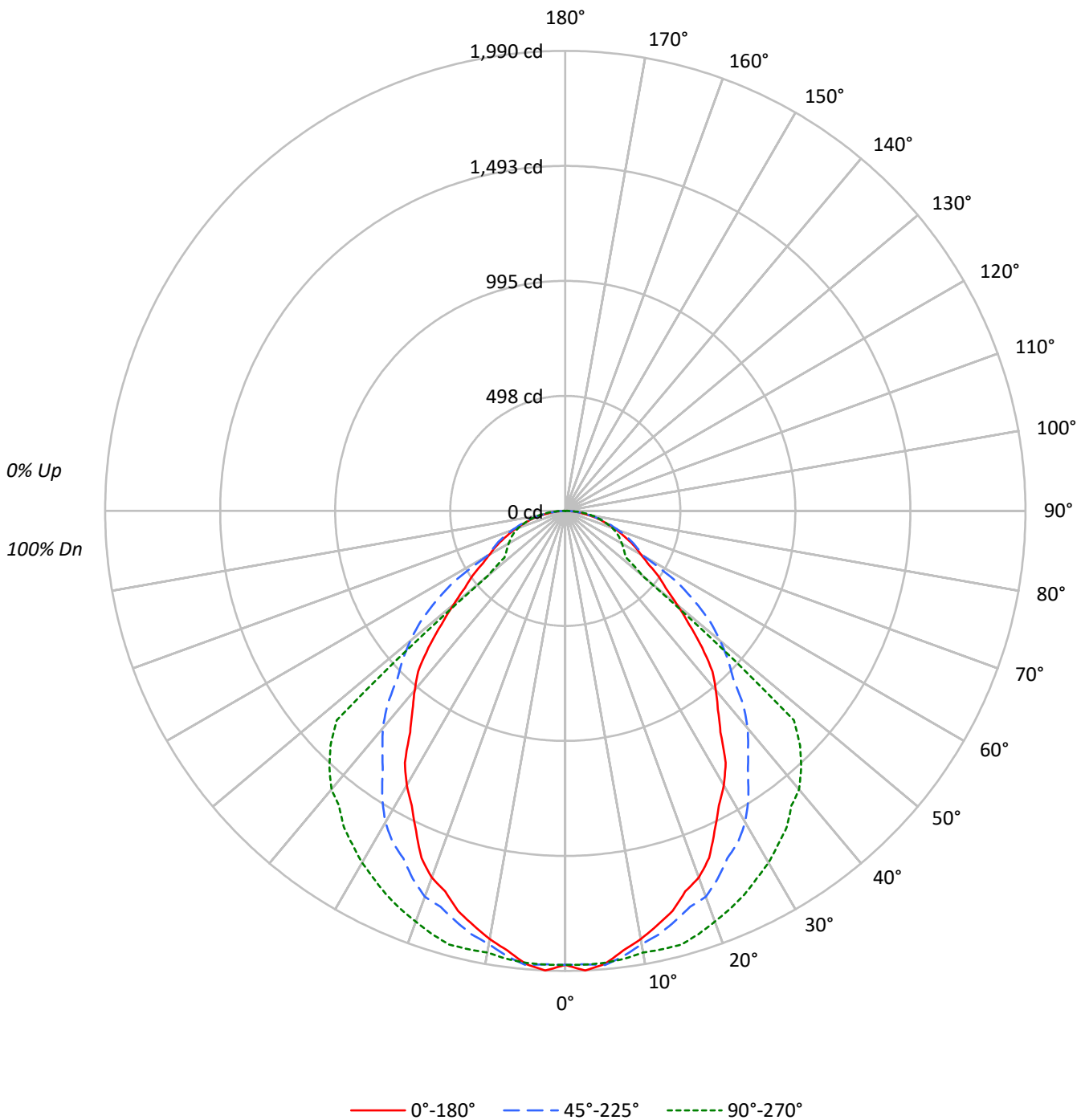
Test Method: LM-79-2019  
Report Number: P894233  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 4MB-SC3-LVR-UNV-CC83-MID-5000K  
Description: Selectable 4FT MICROBAY LINEAR BAY with LOUVER, 80CRI, 5000K CCT, MID lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4191.0 lumens  
Efficiency: N/A  
Efficacy: 125.1 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<sub>in</sub>): 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°	13973	13973	13973
5°	14048	14084	14012
10°	13588	13747	14015
15°	13195	13528	14303
20°	12782	13449	14316
25°	11992	13016	14378
30°	11265	12781	14437
35°	10158	11953	14505
40°	9409	11403	14607
45°	8417	10335	14442
50°	6983	9681	4852
55°	6084	8498	3881
60°	5380	5538	4026
65°	5116	5387	4273
70°	4799	5090	4508
75°	4467	4797	4632
80°	4069	4519	4851
85°	3600	3845	5241

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 14442 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	186.3	4.4
10°-20°	524.0	12.5
20°-30°	770.9	18.4
30°-40°	881.6	21.0
40°-50°	834.8	19.9
50°-60°	459.9	11.0
60°-70°	295.3	7.0
70°-80°	182.2	4.3
80°-90°	56.1	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°	1481.2	35.3
0°-40°	2362.7	56.4
0°-60°	3657.4	87.3
0°-90°	4191.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4191.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1964	1964	1964	1964	1964	
5°	1967	1983	1972	1972	1962	184
15°	1791	1814	1836	1933	1942	503
25°	1528	1596	1658	1766	1832	704
35°	1170	1270	1376	1576	1670	739
45°	836	916	1027	1318	1435	640
55°	490	514	685	353	313	439
65°	304	314	320	285	254	301
75°	162	166	174	184	168	173
85°	44	44	47	54	64	49
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1963.9	1963.9	1963.9	1963.9	1963.9
2.5°	1990.0	1995.0	1962.9	1961.9	1964.9
5°	1966.9	1983.0	1971.9	1971.9	1961.9
7.5°	1917.8	1944.9	1941.8	1964.9	1953.9
10°	1880.7	1902.7	1902.7	1962.9	1939.8
12.5°	1836.5	1861.6	1875.6	1938.8	1941.8
15°	1791.4	1813.5	1836.5	1932.8	1941.8
17.5°	1726.2	1766.3	1795.4	1889.7	1918.8
20°	1688.1	1712.2	1776.3	1852.6	1890.7
22.5°	1624.9	1660.0	1722.2	1807.4	1863.6
25°	1527.6	1595.8	1658.0	1766.3	1831.5
27.5°	1437.3	1488.5	1616.9	1731.2	1793.4
30°	1371.1	1411.2	1555.7	1680.1	1757.3
32.5°	1290.9	1356.1	1473.4	1629.9	1712.2
35°	1169.5	1269.8	1376.1	1575.7	1670.0
37.5°	1084.3	1153.5	1297.9	1519.6	1606.8
40°	1013.0	1076.2	1227.7	1449.4	1572.7
42.5°	941.8	993.0	1139.4	1397.2	1509.5
45°	836.5	915.8	1027.1	1318.0	1435.3
47.5°	726.2	810.4	953.9	1250.8	1341.0
50°	630.9	698.1	874.6	1117.4	438.3
52.5°	547.6	609.8	790.4	404.2	331.0
55°	490.5	514.5	685.1	353.1	312.9
57.5°	422.3	461.4	574.7	336.0	296.9
60°	378.1	395.2	389.2	319.0	282.9
62.5°	343.0	355.1	353.1	301.9	266.8
65°	303.9	313.9	320.0	284.9	253.8
67.5°	264.8	273.8	282.9	263.8	235.7
70°	230.7	236.7	244.7	238.7	216.7
72.5°	195.6	202.6	207.6	212.6	191.6
75°	162.5	165.5	174.5	183.6	168.5
77.5°	132.4	135.4	141.4	151.5	143.4
80°	99.3	102.3	110.3	118.4	118.4
82.5°	70.2	72.2	77.2	88.3	93.3
85°	44.1	44.1	47.1	54.2	64.2
87.5°	17.1	17.1	20.1	24.1	32.1
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	17.11	18.60	17.48	18.91	19.22	14.91	16.40	15.28	16.71	17.03
	3H	18.64	19.97	19.02	20.29	20.66	17.25	18.57	17.62	18.90	19.26
	4H	19.23	20.47	19.63	20.82	21.20	18.20	19.44	18.60	19.79	20.17
	6H	19.69	20.84	20.10	21.20	21.59	18.98	20.13	19.39	20.49	20.89
	8H	19.83	20.92	20.26	21.31	21.72	19.29	20.38	19.72	20.77	21.18
	12H	19.93	20.97	20.36	21.36	21.79	19.54	20.58	19.97	20.97	21.40
4H	2H	17.66	18.91	18.06	19.26	19.63	16.02	17.26	16.42	17.61	17.99
	3H	19.43	20.46	19.85	20.86	21.27	18.46	19.49	18.88	19.89	20.30
	4H	20.16	21.08	20.59	21.50	21.94	19.53	20.46	19.96	20.87	21.31
	6H	20.74	21.55	21.20	21.99	22.45	20.42	21.22	20.88	21.67	22.13
	8H	20.93	21.68	21.39	22.13	22.60	20.77	21.52	21.23	21.97	22.44
	12H	21.07	21.74	21.55	22.22	22.69	21.06	21.73	21.54	22.21	22.68
8H	4H	20.46	21.22	20.93	21.66	22.13	19.92	20.67	20.38	21.12	21.58
	6H	21.17	21.80	21.67	22.29	22.77	20.95	21.58	21.45	22.07	22.55
	8H	21.43	22.00	21.95	22.51	23.00	21.40	21.96	21.91	22.47	22.96
	12H	21.64	22.14	22.15	22.63	23.20	21.78	22.28	22.29	22.77	23.34
12H	4H	20.50	21.17	20.98	21.65	22.12	19.95	20.63	20.44	21.10	21.58
	6H	21.24	21.80	21.75	22.31	22.80	21.02	21.58	21.53	22.09	22.58
	8H	21.56	22.06	22.07	22.55	23.11	21.53	22.02	22.04	22.52	23.08