

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: P894232

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

Issue Date: 11/11/2024

**Test Information**

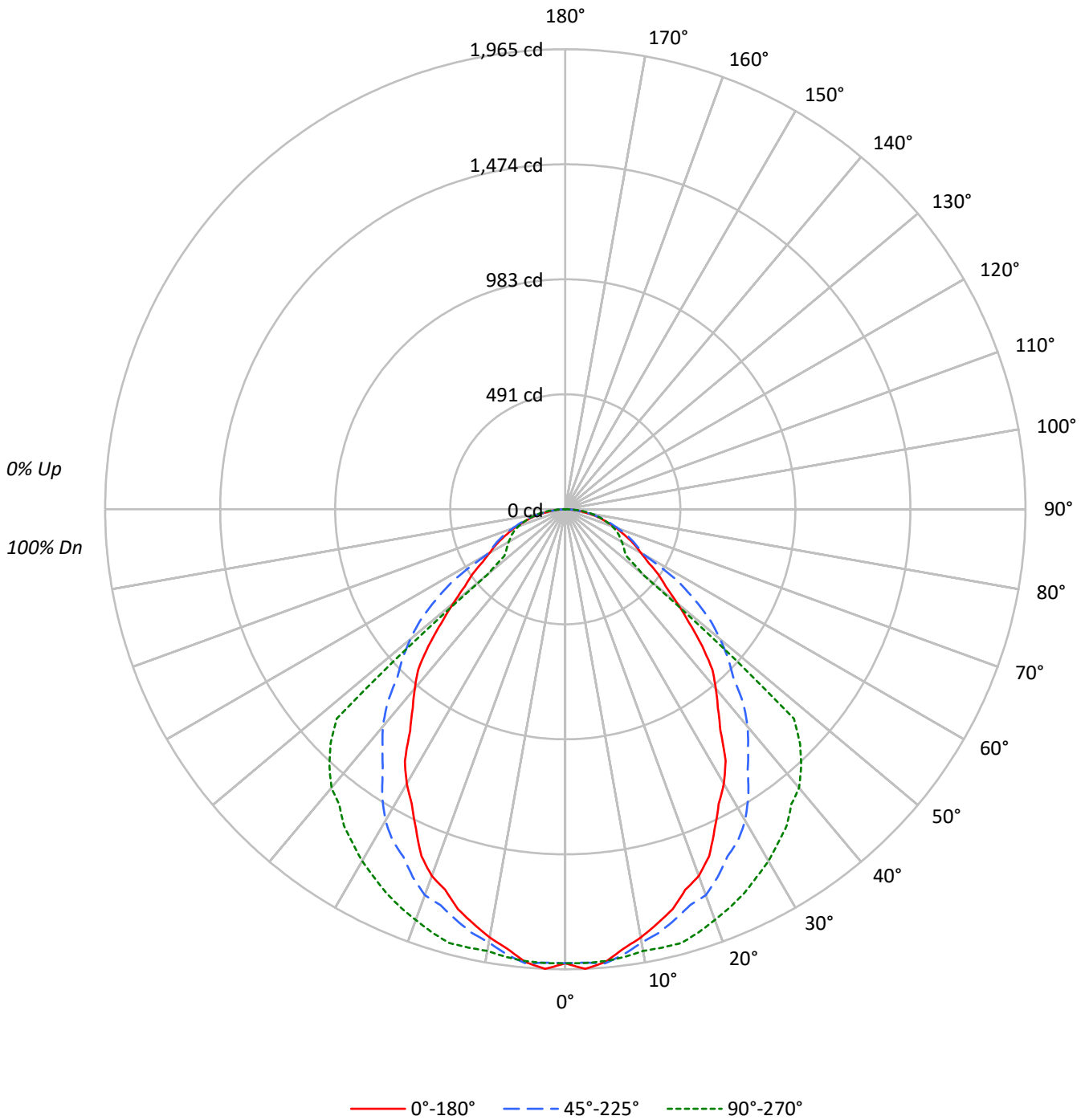
Test Method: LM-79-2019  
Report Number: P894232  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 4MB-SC3-LVR-UNV-CC83-MID-4000K  
Description: Selectable 4FT MICROBAY LINEAR BAY with LOUVER, 80CRI, 4000K CCT, MID lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4138.0 lumens  
Efficiency: N/A  
Efficacy: 123.5 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 (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	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°	13797	13797	13797
5°	13870	13906	13835
10°	13416	13573	13838
15°	13028	13357	14123
20°	12620	13280	14135
25°	11841	12851	14196
30°	11122	12619	14255
35°	10030	11801	14322
40°	9290	11259	14422
45°	8310	10204	14260
50°	6895	9559	4791
55°	6008	8390	3833
60°	5313	5467	3974
65°	5052	5318	4219
70°	4739	5026	4450
75°	4409	4737	4574
80°	4015	4462	4790
85°	3559	3796	5176

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 14260 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	183.9	4.4
10°-20°	517.4	12.5
20°-30°	761.1	18.4
30°-40°	870.4	21.0
40°-50°	824.2	19.9
50°-60°	454.1	11.0
60°-70°	291.6	7.0
70°-80°	179.9	4.3
80°-90°	55.4	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°	1462.4	35.3
0°-40°	2332.8	56.4
0°-60°	3611.1	87.3
0°-90°	4138.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4138.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1939	1939	1939	1939	1939	
5°	1942	1958	1947	1947	1937	182
15°	1769	1790	1813	1908	1917	497
25°	1508	1576	1637	1744	1808	695
35°	1155	1254	1359	1556	1649	730
45°	826	904	1014	1301	1417	632
55°	484	508	676	349	309	433
65°	300	310	316	281	251	297
75°	160	163	172	181	166	171
85°	44	44	46	54	63	49
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1939.1	1939.1	1939.1	1939.1	1939.1
2.5°	1964.8	1969.8	1938.1	1937.1	1940.1
5°	1942.0	1957.9	1947.0	1947.0	1937.1
7.5°	1893.5	1920.3	1917.3	1940.1	1929.2
10°	1856.9	1878.7	1878.7	1938.1	1915.3
12.5°	1813.3	1838.1	1851.9	1914.3	1917.3
15°	1768.7	1790.5	1813.3	1908.4	1917.3
17.5°	1704.4	1744.0	1772.7	1865.8	1894.5
20°	1666.7	1690.5	1753.9	1829.1	1866.8
22.5°	1604.3	1639.0	1700.4	1784.6	1840.0
25°	1508.3	1575.6	1637.0	1744.0	1808.3
27.5°	1419.1	1469.7	1596.4	1709.3	1770.7
30°	1353.8	1393.4	1536.0	1658.8	1735.1
32.5°	1274.6	1338.9	1454.8	1609.3	1690.5
35°	1154.7	1253.8	1358.7	1555.8	1648.9
37.5°	1070.6	1138.9	1281.5	1500.4	1586.5
40°	1000.2	1062.6	1212.2	1431.0	1552.8
42.5°	929.9	980.4	1125.0	1379.5	1490.5
45°	825.9	904.2	1014.1	1301.3	1417.2
47.5°	717.0	800.2	941.8	1234.9	1324.1
50°	622.9	689.3	863.6	1103.2	432.8
52.5°	540.7	602.1	780.4	399.1	326.8
55°	484.3	508.0	676.4	348.6	309.0
57.5°	416.9	455.6	567.5	331.8	293.1
60°	373.4	390.2	384.2	314.9	279.3
62.5°	338.7	350.6	348.6	298.1	263.4
65°	300.1	310.0	315.9	281.3	250.6
67.5°	261.4	270.4	279.3	260.5	232.7
70°	227.8	233.7	241.6	235.7	213.9
72.5°	193.1	200.0	205.0	210.0	189.2
75°	160.4	163.4	172.3	181.2	166.4
77.5°	130.7	133.7	139.6	149.5	141.6
80°	98.0	101.0	108.9	116.9	116.9
82.5°	69.3	71.3	76.3	87.1	92.1
85°	43.6	43.6	46.5	53.5	63.4
87.5°	16.8	16.8	19.8	23.8	31.7
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	17.07	18.55	17.43	18.86	19.18	14.87	16.35	15.24	16.67	16.98
	3H	18.59	19.92	18.97	20.25	20.61	17.20	18.53	17.58	18.86	19.22
	4H	19.19	20.43	19.59	20.78	21.16	18.15	19.39	18.55	19.74	20.12
	6H	19.64	20.79	20.06	21.16	21.55	18.94	20.08	19.35	20.45	20.84
	8H	19.79	20.88	20.22	21.27	21.67	19.25	20.34	19.67	20.73	21.13
	12H	19.88	20.93	20.32	21.31	21.74	19.50	20.54	19.93	20.92	21.35
4H	2H	17.62	18.86	18.02	19.21	19.59	15.98	17.22	16.38	17.57	17.95
	3H	19.39	20.42	19.80	20.82	21.22	18.42	19.45	18.83	19.85	20.25
	4H	20.11	21.04	20.54	21.45	21.89	19.49	20.41	19.92	20.83	21.27
	6H	20.70	21.50	21.15	21.94	22.41	20.37	21.18	20.83	21.62	22.08
	8H	20.88	21.64	21.35	22.08	22.55	20.73	21.48	21.19	21.92	22.39
	12H	21.02	21.70	21.51	22.17	22.65	21.01	21.69	21.50	22.17	22.64
8H	4H	20.42	21.17	20.88	21.62	22.08	19.87	20.63	20.34	21.07	21.54
	6H	21.13	21.75	21.63	22.25	22.72	20.91	21.53	21.41	22.03	22.50
	8H	21.39	21.95	21.91	22.46	22.95	21.35	21.92	21.87	22.43	22.91
	12H	21.60	22.10	22.11	22.59	23.16	21.74	22.24	22.25	22.73	23.29
12H	4H	20.45	21.13	20.94	21.61	22.08	19.91	20.58	20.39	21.06	21.53
	6H	21.19	21.76	21.71	22.27	22.76	20.97	21.54	21.49	22.05	22.53
	8H	21.51	22.01	22.02	22.50	23.07	21.48	21.98	21.99	22.47	23.04