

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: P894285

Luminaire Tested: 4MB-SC3-RFLW-UNV-CC83-MID-3500K

Issue Date: 11/11/2024

**Test Information**

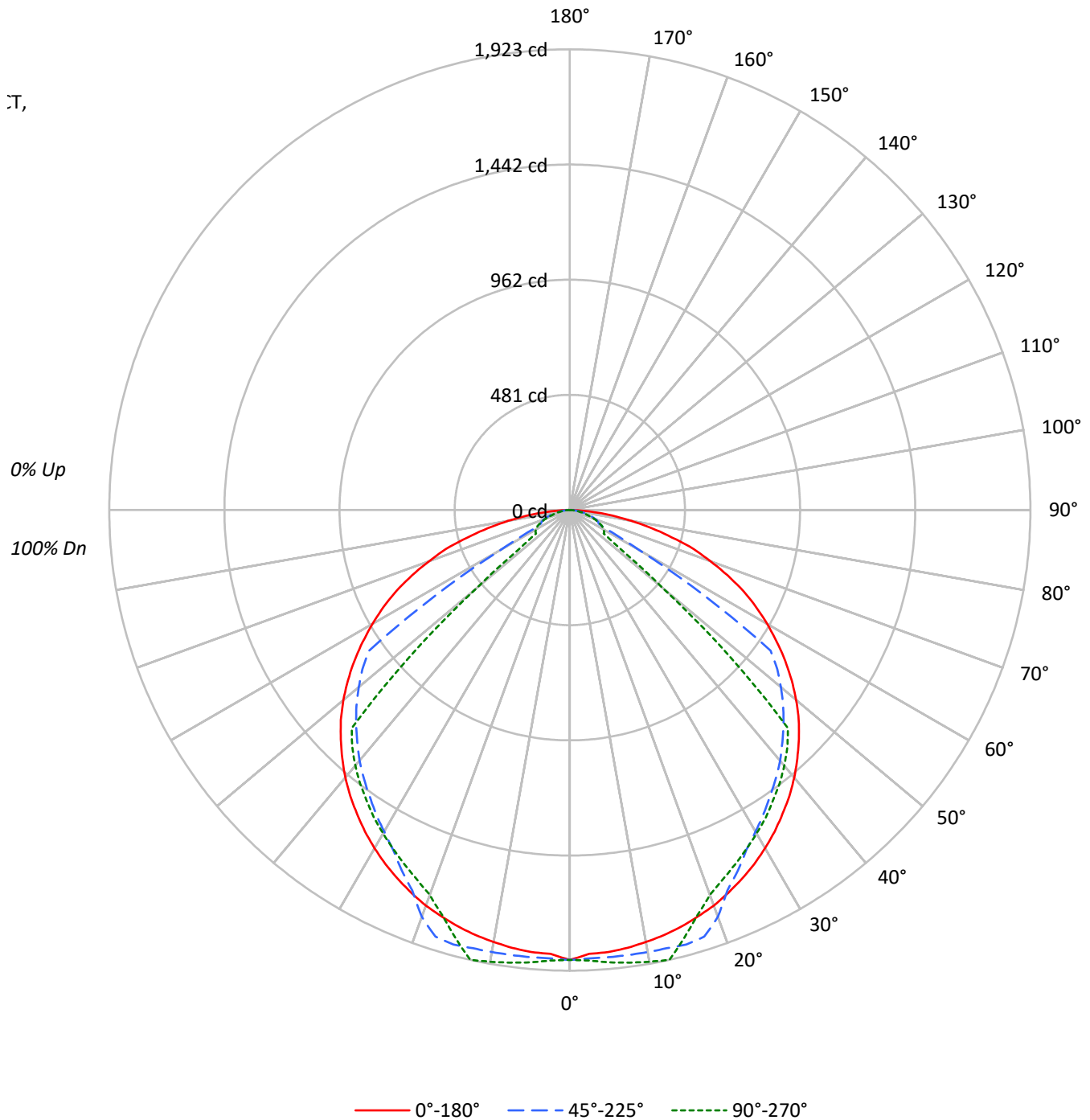
Test Method: LM-79-2019  
Report Number: P894285  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2408-210-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 4MB-SC3-RFLW-UNV-CC83-MID-3500K  
Description: Selectable 4FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 80CRI, 3500K CC  
MID lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4580.0 lumens  
Efficiency: N/A  
Efficacy: 136.7 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.24 / 1.38  
Luminous Opening: Rectangular (W 0.21' 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	101	98	100	97	94	96	94	92	92	91	89	89	89	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	77	77	77	75
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	66	66	66	64
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	58	58	58	56
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	61	55	51	51	51	51	49
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	45	45	45	43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	40	40	40	38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	36	36	36	35
9	60	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	33	33	33	31
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	30	30	30	28

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

	0°	45°	90°
0°	24383	24383	24383
5°	24140	24420	24702
10°	24136	24703	25242
15°	24202	25244	24839
20°	24282	24967	23628
25°	24344	23788	23387
30°	24443	23248	23377
35°	24545	23110	23451
40°	24713	23143	23618
45°	24835	23173	23649
50°	24926	23231	10224
55°	24864	23157	3901
60°	24718	8835	4251
65°	24546	4102	4366
70°	23710	4415	4089
75°	22150	4214	3567
80°	19487	3702	3058
85°	15405	3203	2563

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 50°  
 Luminance: 24926 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	179.3	3.9
10°-20°	520.7	11.4
20°-30°	777.0	17.0
30°-40°	941.8	20.6
40°-50°	964.3	21.1
50°-60°	641.3	14.0
60°-70°	365.5	8.0
70°-80°	153.6	3.4
80°-90°	36.6	0.8
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°	1477.0	32.2
0°-40°	2418.8	52.8
0°-60°	4024.3	87.9
0°-90°	4580.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4580.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1878	1878	1878	1878	1878	
5°	1852	1889	1874	1878	1895	176
15°	1800	1850	1878	1871	1848	508
25°	1699	1781	1660	1624	1632	784
35°	1548	1576	1458	1464	1479	970
45°	1352	1271	1262	1277	1288	1043
55°	1098	1006	1023	224	172	981
65°	799	715	134	142	142	786
75°	442	93	84	73	71	469
85°	103	26	22	17	17	124
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1877.8	1877.8	1877.8	1877.8	1877.8
2.5°	1854.1	1892.9	1873.5	1875.7	1882.1
5°	1852.0	1888.6	1873.5	1877.8	1895.1
7.5°	1843.4	1882.1	1873.5	1886.4	1905.8
10°	1830.5	1875.7	1873.5	1895.1	1914.4
12.5°	1817.5	1862.8	1873.5	1905.8	1923.1
15°	1800.3	1849.8	1877.8	1871.4	1847.7
17.5°	1778.8	1836.9	1867.1	1774.5	1772.3
20°	1757.2	1819.7	1806.8	1718.5	1709.9
22.5°	1729.2	1802.5	1718.5	1658.2	1668.9
25°	1699.1	1780.9	1660.3	1623.7	1632.3
27.5°	1666.8	1759.4	1597.9	1585.0	1595.7
30°	1630.2	1729.2	1550.5	1546.2	1559.1
32.5°	1591.4	1671.1	1505.3	1507.4	1522.5
35°	1548.4	1576.3	1457.9	1464.4	1479.4
37.5°	1505.3	1488.1	1412.7	1423.5	1438.5
40°	1457.9	1419.1	1365.3	1376.1	1393.3
42.5°	1406.2	1345.9	1313.6	1328.7	1343.8
45°	1352.4	1270.6	1261.9	1277.0	1287.8
47.5°	1296.4	1205.9	1208.1	1218.9	913.1
50°	1233.9	1141.3	1150.0	796.8	506.1
52.5°	1167.2	1074.6	1091.8	443.6	256.3
55°	1098.3	1005.7	1022.9	224.0	172.3
57.5°	1025.1	936.8	667.6	161.5	170.1
60°	951.8	863.5	340.2	159.4	163.7
62.5°	876.5	790.3	161.5	152.9	155.1
65°	798.9	715.0	133.5	142.1	142.1
67.5°	712.8	635.3	127.1	127.1	124.9
70°	624.5	527.6	116.3	109.8	107.7
72.5°	542.7	202.4	101.2	90.4	88.3
75°	441.5	92.6	84.0	73.2	71.1
77.5°	351.0	77.5	66.8	58.1	56.0
80°	260.6	60.3	49.5	43.1	40.9
82.5°	180.9	40.9	34.5	28.0	28.0
85°	103.4	25.8	21.5	17.2	17.2
87.5°	40.9	12.9	10.8	6.5	6.5
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	24.02	25.54	24.39	25.86	26.17	11.79	13.31	12.15	13.62	13.94
	3H	26.04	27.40	26.42	27.73	28.09	14.10	15.46	14.48	15.79	16.15
	4H	26.51	27.78	26.91	28.13	28.50	14.82	16.09	15.22	16.44	16.82
	6H	26.91	28.08	27.32	28.45	28.84	15.30	16.47	15.71	16.84	17.23
	8H	27.06	28.18	27.49	28.57	28.97	15.44	16.55	15.86	16.94	17.34
	12H	27.16	28.23	27.59	28.61	29.04	15.52	16.59	15.95	16.97	17.40
4H	2H	23.86	25.14	24.26	25.48	25.86	12.59	13.86	12.99	14.21	14.59
	3H	26.07	27.11	26.48	27.51	27.92	15.10	16.14	15.51	16.54	16.95
	4H	26.51	27.45	26.95	27.87	28.31	15.92	16.86	16.35	17.27	17.71
	6H	26.98	27.80	27.44	28.24	28.70	16.51	17.32	16.97	17.77	18.23
	8H	27.17	27.93	27.64	28.38	28.85	16.68	17.44	17.14	17.88	18.35
	12H	27.32	28.00	27.81	28.48	28.95	16.80	17.48	17.28	17.95	18.43
8H	4H	26.43	27.19	26.90	27.64	28.11	16.76	17.52	17.22	17.96	18.43
	6H	26.89	27.52	27.39	28.01	28.49	17.38	18.01	17.88	18.50	18.98
	8H	27.09	27.66	27.61	28.17	28.66	17.58	18.14	18.09	18.65	19.14
	12H	27.28	27.78	27.79	28.27	28.84	17.74	18.24	18.25	18.73	19.29
12H	4H	26.40	27.08	26.89	27.56	28.03	16.83	17.51	17.31	17.99	18.46
	6H	26.85	27.41	27.36	27.92	28.41	17.47	18.04	17.99	18.55	19.04
	8H	27.07	27.57	27.58	28.06	28.63	17.72	18.23	18.24	18.72	19.28