

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: P894256

Luminaire Tested: 4MB-SC3-LVRA-UNV-CC93-LOW-4000K

Issue Date: 11/11/2024

**Test Information**

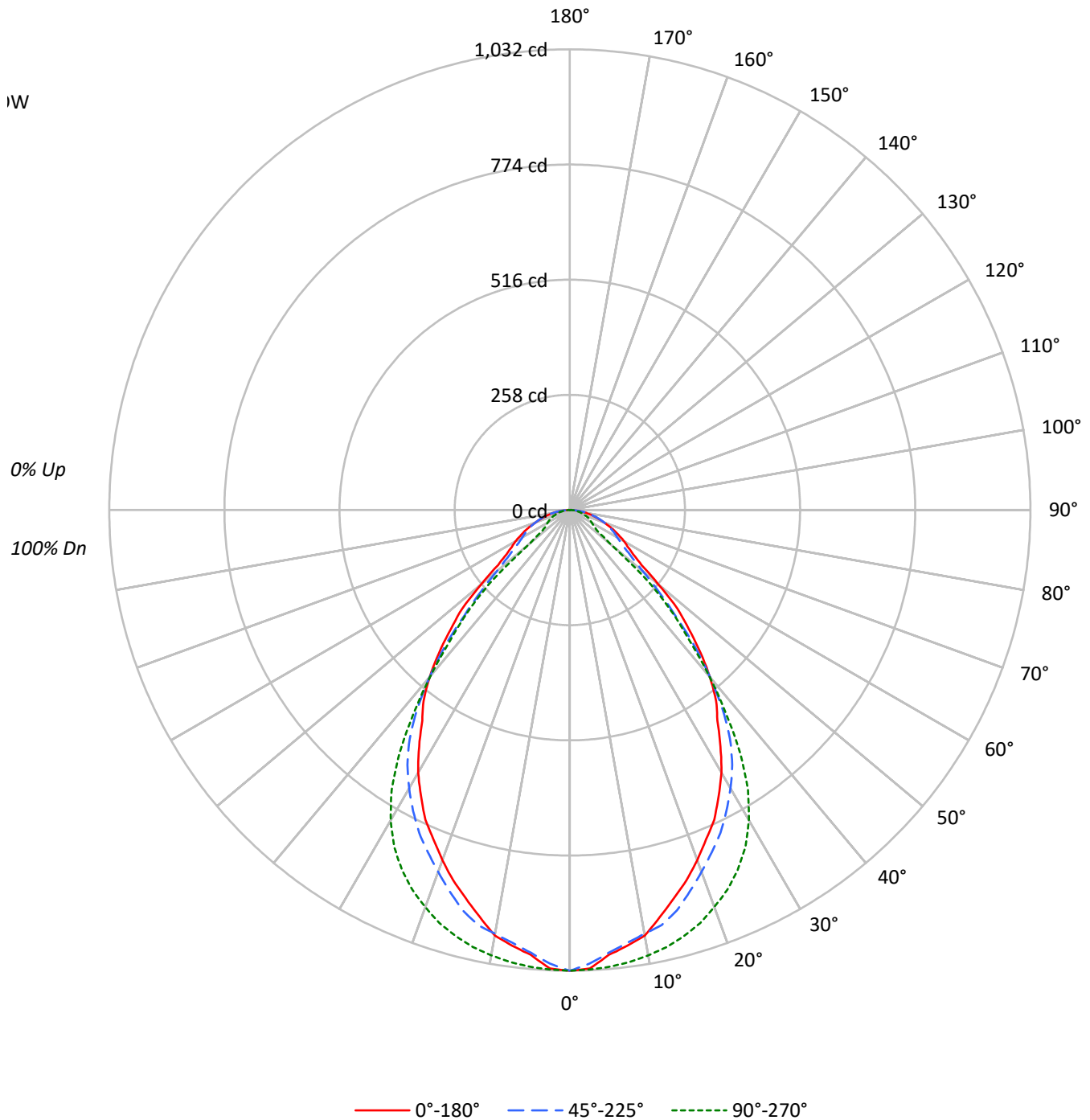
Test Method: LM-79-2019  
Report Number: P894256  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-26)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 4MB-SC3-LVRA-UNV-CC93-LOW-4000K  
Description: Selectable 4FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 90CRI, 4000K CCT, LO lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1675.0 lumens  
Efficiency: N/A  
Efficacy: 100.3 lumens/watt  
Spacing Criteria (0/90/45): 1.02 / 1.16 / 1.12  
Luminous Opening: Rectangular (W 0.38' x L: 3.98' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 16.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.9915  
Total Harmonic Distortion (THDi): 6.67573310469889  
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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	90	90	90	88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	80	80	80	78
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	71	71	71	69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	63	63	63	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	57	57	57	55
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	52	52	52	50
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	47	47	47	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	43	43	43	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	40	40	40	38
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	37	37	37	35

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

	0°	45°	90°
0°	7343	7343	7343
5°	7145	7113	7335
10°	6994	6962	7318
15°	6632	6836	7277
20°	6318	6531	7166
25°	6010	6267	6983
30°	5583	5916	6593
35°	5006	5436	5783
40°	4536	4546	4521
45°	3792	3359	3276
50°	2865	2364	1339
55°	2155	1890	845
60°	2002	1742	814
65°	1864	1737	815
70°	1704	1704	803
75°	1616	1660	775
80°	1491	1569	795
85°	1306	1371	865

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 3881 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.3	5.7
10°-20°	262.7	15.7
20°-30°	372.5	22.2
30°-40°	383.7	22.9
40°-50°	268.0	16.0
50°-60°	128.6	7.7
60°-70°	90.2	5.4
70°-80°	56.4	3.4
80°-90°	17.4	1.0
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°	730.5	43.6
0°-40°	1114.3	66.5
0°-60°	1510.9	90.2
0°-90°	1675.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1675.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1032	1032	1032	1032	1032	
5°	1000	999	996	1022	1027	95
15°	900	907	928	955	988	254
25°	766	773	798	852	890	350
35°	576	592	626	639	666	363
45°	377	386	334	317	326	290
55°	174	165	152	98	68	163
65°	111	104	103	78	48	110
75°	59	58	60	52	28	62
85°	16	16	17	16	11	18
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1032.1	1032.1	1032.1	1032.1	1032.1
2.5°	1028.1	1024.9	1017.2	1031.3	1030.2
5°	1000.4	999.1	995.9	1022.0	1027.0
7.5°	984.7	982.1	978.3	1007.1	1021.2
10°	968.0	971.2	963.7	990.0	1012.9
12.5°	933.4	941.9	952.0	972.5	1002.8
15°	900.4	907.0	928.1	954.7	987.9
17.5°	869.5	877.3	895.3	935.2	970.6
20°	834.4	845.1	862.6	913.7	946.4
22.5°	798.3	808.1	830.2	885.0	921.4
25°	765.5	773.2	798.3	852.3	889.5
27.5°	722.2	736.5	760.2	812.4	851.5
30°	679.6	691.9	720.1	763.9	802.5
32.5°	628.3	646.1	677.2	710.7	742.9
35°	576.4	592.1	625.9	638.9	665.8
37.5°	538.6	542.9	562.0	560.5	575.6
40°	488.4	496.9	489.4	469.5	486.8
42.5°	434.1	444.2	414.2	391.0	397.1
45°	376.9	385.7	333.8	316.8	325.6
47.5°	327.4	326.6	269.2	257.7	245.5
50°	258.8	267.3	213.6	192.3	121.0
52.5°	202.2	205.3	176.1	122.9	79.5
55°	173.7	165.2	152.4	97.6	68.1
57.5°	154.3	143.6	135.1	90.7	62.2
60°	140.7	128.7	122.4	86.2	57.2
62.5°	125.3	116.0	113.6	82.2	52.7
65°	110.7	103.5	103.2	78.5	48.4
67.5°	96.0	92.0	93.1	73.9	43.6
70°	81.9	81.1	81.9	68.1	38.6
72.5°	70.0	69.2	71.3	60.6	33.0
75°	58.8	58.0	60.4	52.1	28.2
77.5°	46.8	47.3	48.9	43.4	23.7
80°	36.4	36.4	38.3	34.0	19.4
82.5°	26.1	26.3	27.4	25.0	15.2
85°	16.0	16.0	16.8	16.5	10.6
87.5°	5.3	6.1	7.2	7.7	5.3
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	12.57	13.93	12.94	14.24	14.55	8.91	10.26	9.27	10.57	10.89
	3H	14.31	15.52	14.69	15.85	16.21	10.88	12.09	11.26	12.42	12.78
	4H	14.98	16.11	15.38	16.46	16.84	11.59	12.71	11.99	13.06	13.45
	6H	15.49	16.53	15.90	16.90	17.29	12.11	13.15	12.52	13.52	13.91
	8H	15.66	16.65	16.09	17.04	17.44	12.29	13.28	12.72	13.67	14.07
	12H	15.77	16.71	16.20	17.10	17.53	12.43	13.38	12.87	13.76	14.19
4H	2H	13.10	14.23	13.51	14.58	14.96	10.53	11.66	10.93	12.01	12.39
	3H	15.08	16.01	15.49	16.41	16.82	12.71	13.64	13.12	14.04	14.44
	4H	15.88	16.72	16.32	17.14	17.58	13.58	14.42	14.02	14.84	15.28
	6H	16.53	17.25	16.99	17.69	18.16	14.23	14.95	14.69	15.40	15.86
	8H	16.75	17.42	17.21	17.87	18.34	14.44	15.11	14.90	15.56	16.03
	12H	16.90	17.50	17.38	17.98	18.46	14.59	15.19	15.08	15.68	16.15
8H	4H	16.17	16.84	16.63	17.29	17.76	14.23	14.91	14.70	15.36	15.83
	6H	16.95	17.50	17.45	18.00	18.48	15.09	15.65	15.60	16.15	16.63
	8H	17.25	17.75	17.77	18.26	18.75	15.42	15.92	15.94	16.44	16.93
	12H	17.49	17.93	18.00	18.42	18.99	15.69	16.13	16.20	16.62	17.19
12H	4H	16.18	16.78	16.67	17.27	17.74	14.31	14.91	14.79	15.39	15.86
	6H	17.00	17.50	17.52	18.01	18.51	15.23	15.73	15.75	16.25	16.74
	8H	17.37	17.81	17.88	18.30	18.87	15.65	16.09	16.16	16.58	17.15