

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: P893039

Luminaire Tested: 2MB-SC3-LVR-UNV-CC93-HI-4000K

Issue Date: 11/11/2024

**Test Information**

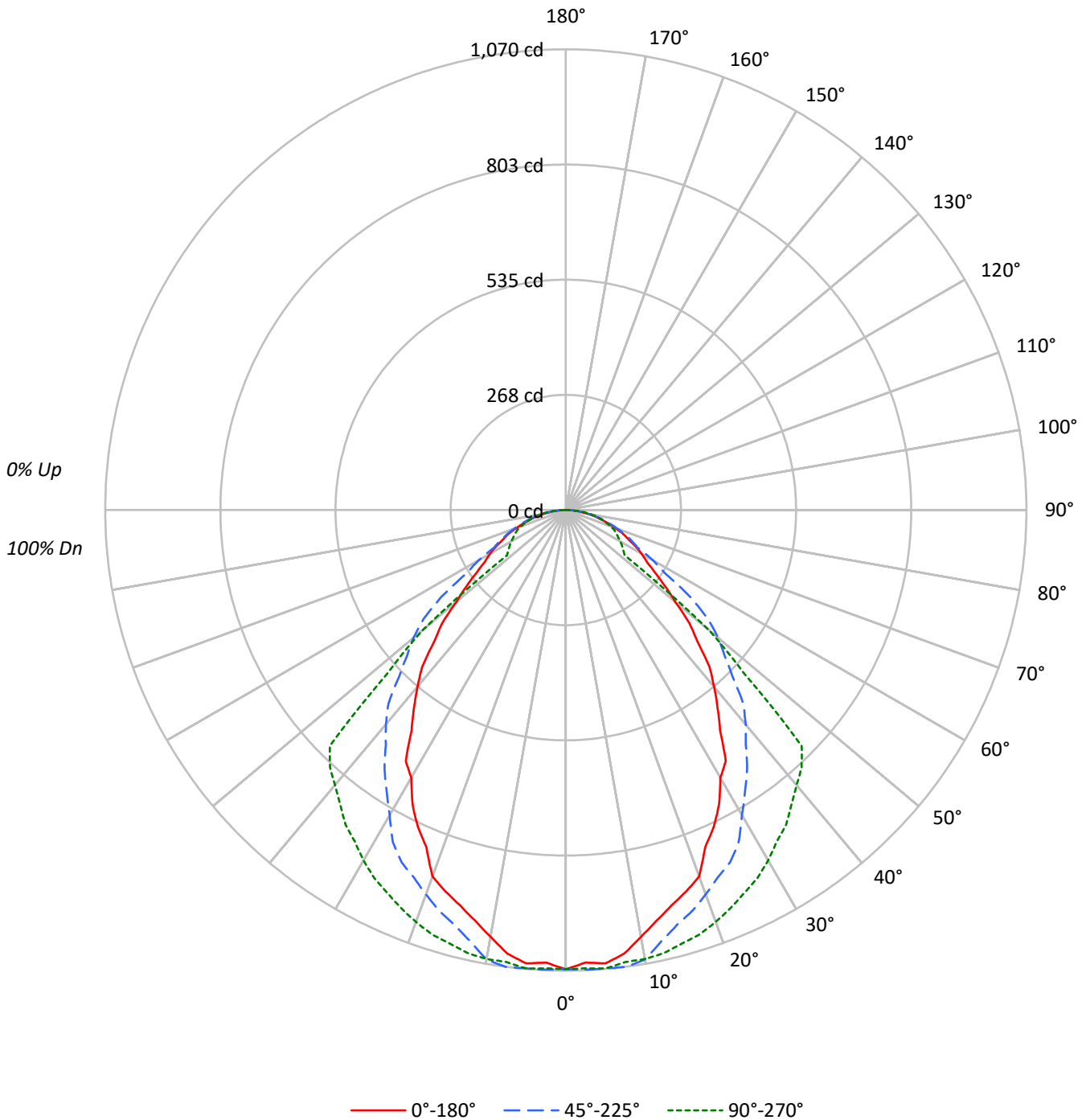
Test Method: LM-79-2019  
Report Number: P893039  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-SC3-LVR-UNV-CC93-HI-4000K  
Description: Selectable 2FT MICROBAY LINEAR BAY with LOUVER, 90CRI, 4000K CCT, HI lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2225.0 lumens  
Efficiency: N/A  
Efficacy: 106.0 lumens/watt  
Spacing Criteria (0/90/45): 1.05 / 1.3 / 1.26  
Luminous Opening: Rectangular (W 0.38' x L: 1.98' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 21  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: 0.996  
Total Harmonic Distortion (THDi): 5.39961257980444  
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	100	100	100	100
1	110	106	102	99	108	104	100	97	100	97	94	96	94	91	92	90	89	87	87	87	87
2	102	94	88	83	99	93	87	82	89	84	80	86	82	79	83	80	77	75	75	75	75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65	65	65	65
4	87	76	68	62	84	75	67	62	72	66	61	70	64	60	68	63	59	57	57	57	57
5	80	69	60	54	78	68	60	54	66	59	54	64	58	53	62	57	53	51	51	51	51
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	45	45	45	45
7	70	57	49	43	68	56	49	43	55	48	43	53	47	43	52	47	42	40	40	40	40
8	65	52	45	39	64	52	44	39	50	44	39	49	43	39	48	43	38	37	37	37	37
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	33	33	33	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30	30	30	30

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

	0°	45°	90°
0°	15257	15257	15257
5°	15176	15342	15342
10°	14619	15393	15379
15°	14073	14776	15437
20°	13788	14465	15498
25°	12828	14250	15488
30°	11857	13520	15521
35°	10911	12822	15579
40°	10004	12138	15575
45°	8740	11091	15677
50°	7393	10282	9701
55°	6280	8842	4058
60°	5819	6706	4186
65°	5409	5704	4394
70°	5103	5387	4618
75°	4709	5085	4764
80°	4309	4704	5025
85°	3808	4300	5400

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 15677 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.1	4.5
10°-20°	283.1	12.7
20°-30°	411.5	18.5
30°-40°	466.0	20.9
40°-50°	435.3	19.6
50°-60°	247.3	11.1
60°-70°	155.4	7.0
70°-80°	95.3	4.3
80°-90°	29.9	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°	795.8	35.8
0°-40°	1261.7	56.7
0°-60°	1944.3	87.4
0°-90°	2225.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2225.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1066	1066	1066	1066	1066	
5°	1057	1067	1068	1064	1068	99
15°	950	967	998	1052	1042	269
25°	813	828	903	944	981	373
35°	625	666	734	830	892	394
45°	432	477	548	696	775	337
55°	252	275	354	186	163	231
65°	160	166	168	146	130	160
75°	85	88	92	94	86	91
85°	23	24	26	29	33	26
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1066.5	1066.5	1066.5	1066.5	1066.5
2.5°	1051.9	1063.6	1068.4	1067.4	1065.5
5°	1056.8	1067.4	1068.4	1064.5	1068.4
7.5°	1039.3	1064.5	1070.3	1060.7	1058.7
10°	1006.4	1020.9	1059.7	1063.6	1058.7
12.5°	976.4	993.8	1025.8	1063.6	1053.9
15°	950.2	966.7	997.7	1051.9	1042.3
17.5°	928.9	934.7	976.4	1039.3	1033.5
20°	905.7	917.3	950.2	1008.4	1018.0
22.5°	846.6	878.6	923.1	981.2	1000.6
25°	812.7	828.2	902.8	943.5	981.2
27.5°	771.0	799.1	869.8	914.4	963.8
30°	717.8	749.7	818.5	884.4	939.6
32.5°	691.6	703.2	774.9	860.1	912.5
35°	624.8	666.4	734.2	830.1	892.1
37.5°	579.2	604.4	686.8	801.1	861.1
40°	535.7	564.7	650.0	769.1	834.0
42.5°	494.0	520.2	610.2	737.1	810.7
45°	432.0	476.6	548.2	696.4	774.9
47.5°	389.4	417.5	499.8	647.0	561.8
50°	332.2	366.1	462.0	443.6	435.9
52.5°	290.6	309.0	416.5	374.9	172.4
55°	251.8	275.1	354.5	186.0	162.7
57.5°	222.8	238.3	272.2	172.4	155.0
60°	203.4	207.3	234.4	164.7	146.3
62.5°	182.1	186.0	186.9	156.0	137.5
65°	159.8	165.6	168.5	146.3	129.8
67.5°	143.4	144.3	148.2	135.6	122.0
70°	122.0	124.0	128.8	124.0	110.4
72.5°	103.6	106.6	109.5	110.4	98.8
75°	85.2	88.1	92.0	94.0	86.2
77.5°	69.7	70.7	74.6	79.4	73.6
80°	52.3	55.2	57.1	62.0	61.0
82.5°	37.8	38.7	41.7	45.5	47.5
85°	23.2	24.2	26.2	29.1	32.9
87.5°	9.7	10.7	11.6	13.6	15.5
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	17.19	18.66	17.55	18.98	19.29	14.93	16.41	15.30	16.72	17.04
	3H	18.77	20.10	19.15	20.42	20.79	17.27	18.59	17.64	18.92	19.28
	4H	19.37	20.61	19.78	20.96	21.34	18.21	19.45	18.61	19.80	20.18
	6H	19.84	20.98	20.25	21.35	21.74	19.00	20.14	19.41	20.51	20.90
	8H	19.99	21.08	20.41	21.47	21.87	19.31	20.40	19.74	20.79	21.19
	12H	20.09	21.13	20.52	21.51	21.94	19.55	20.60	19.99	20.98	21.41
4H	2H	17.76	19.00	18.16	19.35	19.72	16.09	17.33	16.49	17.68	18.05
	3H	19.58	20.60	19.99	21.00	21.41	18.53	19.55	18.94	19.95	20.35
	4H	20.31	21.23	20.74	21.65	22.09	19.57	20.50	20.01	20.91	21.35
	6H	20.90	21.70	21.36	22.15	22.61	20.47	21.27	20.93	21.72	22.18
	8H	21.10	21.85	21.56	22.29	22.76	20.81	21.57	21.28	22.01	22.48
	12H	21.24	21.91	21.72	22.39	22.86	21.10	21.77	21.58	22.25	22.72
8H	4H	20.62	21.37	21.08	21.81	22.28	19.98	20.73	20.44	21.17	21.64
	6H	21.34	21.96	21.83	22.45	22.93	21.02	21.64	21.52	22.13	22.61
	8H	21.61	22.17	22.12	22.68	23.17	21.46	22.02	21.97	22.53	23.02
	12H	21.83	22.32	22.34	22.82	23.38	21.84	22.34	22.35	22.83	23.40
12H	4H	20.65	21.32	21.13	21.80	22.27	20.01	20.69	20.50	21.16	21.64
	6H	21.40	21.96	21.92	22.47	22.96	21.09	21.65	21.60	22.16	22.65
	8H	21.74	22.23	22.25	22.73	23.29	21.59	22.09	22.10	22.58	23.15