

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: P893060

Luminaire Tested: 2MB-SC3-LVRA-UNV-CC93-LOW-4000K

Issue Date: 11/11/2024

**Test Information**

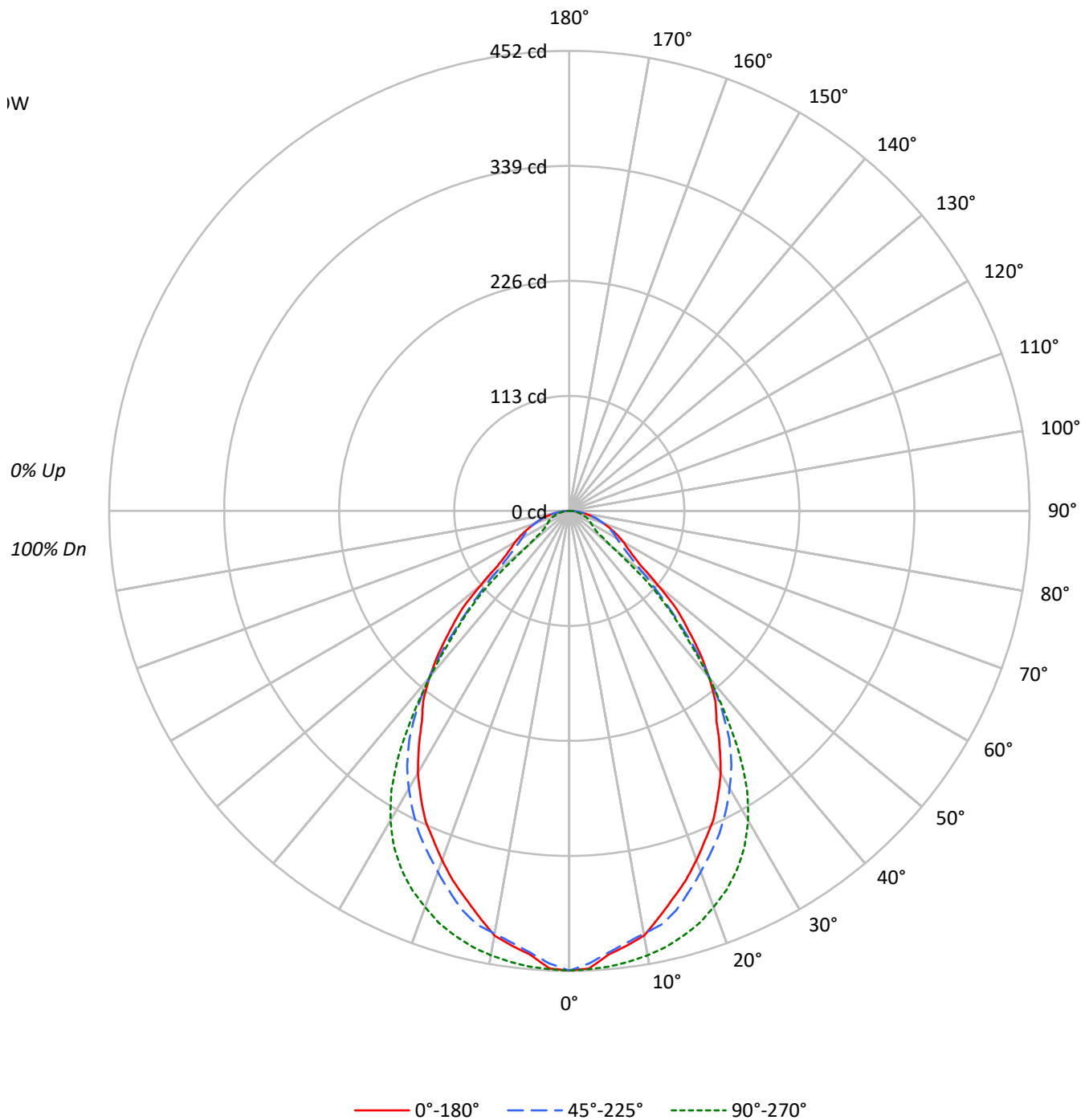
Test Method: LM-79-2019  
Report Number: P893060  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-26)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-SC3-LVRA-UNV-CC93-LOW-4000K  
Description: Selectable 2FT 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: 733.0 lumens  
Efficiency: N/A  
Efficacy: 106.2 lumens/watt  
Spacing Criteria (0/90/45): 1.02 / 1.16 / 1.12  
Luminous Opening: Rectangular (W 0.38' x L: 1.98' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 6.9  
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°	6460	6460	6460
5°	6287	6258	6453
10°	6153	6126	6439
15°	5835	6014	6402
20°	5560	5747	6306
25°	5288	5513	6145
30°	4913	5205	5801
35°	4404	4783	5089
40°	3991	4000	3978
45°	3336	2956	2883
50°	2522	2081	1180
55°	1896	1664	743
60°	1762	1531	715
65°	1638	1530	718
70°	1502	1502	707
75°	1420	1459	680
80°	1310	1384	700
85°	1149	1198	771

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 3415 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.7	5.7
10°-20°	115.0	15.7
20°-30°	163.0	22.2
30°-40°	167.9	22.9
40°-50°	117.3	16.0
50°-60°	56.3	7.7
60°-70°	39.5	5.4
70°-80°	24.7	3.4
80°-90°	7.6	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°	319.7	43.6
0°-40°	487.6	66.5
0°-60°	661.2	90.2
0°-90°	733.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	733.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	452	452	452	452	452	
5°	438	437	436	447	449	41
15°	394	397	406	418	432	111
25°	335	338	349	373	389	153
35°	252	259	274	280	291	159
45°	165	169	146	139	142	127
55°	76	72	67	43	30	71
65°	48	45	45	34	21	48
75°	26	25	26	23	12	27
85°	7	7	7	7	5	8
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	451.6	451.6	451.6	451.6	451.6
2.5°	449.9	448.5	445.1	451.3	450.8
5°	437.8	437.2	435.8	447.2	449.4
7.5°	430.9	429.8	428.1	440.7	446.9
10°	423.6	425.0	421.7	433.3	443.3
12.5°	408.5	412.2	416.6	425.6	438.8
15°	394.0	396.9	406.1	417.8	432.3
17.5°	380.5	383.9	391.8	409.3	424.8
20°	365.2	369.8	377.5	399.8	414.2
22.5°	349.3	353.6	363.3	387.3	403.2
25°	335.0	338.4	349.3	373.0	389.3
27.5°	316.0	322.3	332.7	355.5	372.6
30°	297.4	302.8	315.1	334.3	351.2
32.5°	274.9	282.7	296.4	311.0	325.1
35°	252.2	259.1	273.9	279.6	291.4
37.5°	235.7	237.6	246.0	245.3	251.9
40°	213.7	217.4	214.2	205.5	213.0
42.5°	190.0	194.4	181.2	171.1	173.8
45°	164.9	168.8	146.1	138.6	142.5
47.5°	143.3	142.9	117.8	112.8	107.4
50°	113.3	117.0	93.5	84.2	53.0
52.5°	88.5	89.9	77.1	53.8	34.8
55°	76.0	72.3	66.7	42.7	29.8
57.5°	67.5	62.9	59.1	39.7	27.2
60°	61.6	56.3	53.5	37.7	25.0
62.5°	54.8	50.8	49.7	36.0	23.0
65°	48.4	45.3	45.2	34.3	21.2
67.5°	42.0	40.3	40.7	32.4	19.1
70°	35.9	35.5	35.9	29.8	16.9
72.5°	30.6	30.3	31.2	26.5	14.4
75°	25.7	25.4	26.4	22.8	12.3
77.5°	20.5	20.7	21.4	19.0	10.4
80°	15.9	15.9	16.8	14.9	8.5
82.5°	11.4	11.5	12.0	10.9	6.6
85°	7.0	7.0	7.3	7.2	4.7
87.5°	2.3	2.7	3.1	3.4	2.3
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	12.13	13.49	12.50	13.80	14.11	8.46	9.81	8.83	10.13	10.44
	3H	13.87	15.08	14.25	15.41	15.77	10.44	11.65	10.82	11.98	12.34
	4H	14.54	15.67	14.94	16.02	16.40	11.14	12.27	11.54	12.62	13.00
	6H	15.05	16.08	15.46	16.45	16.85	11.67	12.70	12.08	13.07	13.47
	8H	15.22	16.20	15.65	16.59	17.00	11.85	12.84	12.28	13.23	13.63
	12H	15.33	16.27	15.76	16.65	17.08	11.99	12.93	12.42	13.32	13.75
4H	2H	12.66	13.79	13.06	14.14	14.52	10.09	11.21	10.49	11.56	11.95
	3H	14.64	15.57	15.05	15.97	16.38	12.26	13.19	12.68	13.60	14.00
	4H	15.44	16.28	15.88	16.70	17.14	13.14	13.98	13.58	14.40	14.84
	6H	16.08	16.81	16.54	17.25	17.72	13.79	14.51	14.25	14.96	15.42
	8H	16.30	16.98	16.77	17.42	17.89	13.99	14.67	14.46	15.12	15.59
	12H	16.46	17.06	16.94	17.54	18.01	14.15	14.75	14.64	15.23	15.71
8H	4H	15.73	16.40	16.19	16.85	17.32	13.79	14.47	14.26	14.91	15.38
	6H	16.51	17.06	17.01	17.56	18.04	14.65	15.21	15.15	15.70	16.18
	8H	16.81	17.31	17.33	17.82	18.31	14.98	15.48	15.50	15.99	16.48
	12H	17.04	17.48	17.56	17.98	18.55	15.24	15.68	15.76	16.18	16.75
12H	4H	15.74	16.34	16.23	16.82	17.30	13.86	14.46	14.35	14.94	15.42
	6H	16.56	17.06	17.08	17.57	18.06	14.79	15.29	15.31	15.80	16.29
	8H	16.92	17.36	17.44	17.86	18.43	15.20	15.64	15.71	16.14	16.71