

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: P893049

Luminaire Tested: 2MB-SC3-LVRA-UNV-CC83-HI-5000K

Issue Date: 11/11/2024

**Test Information**

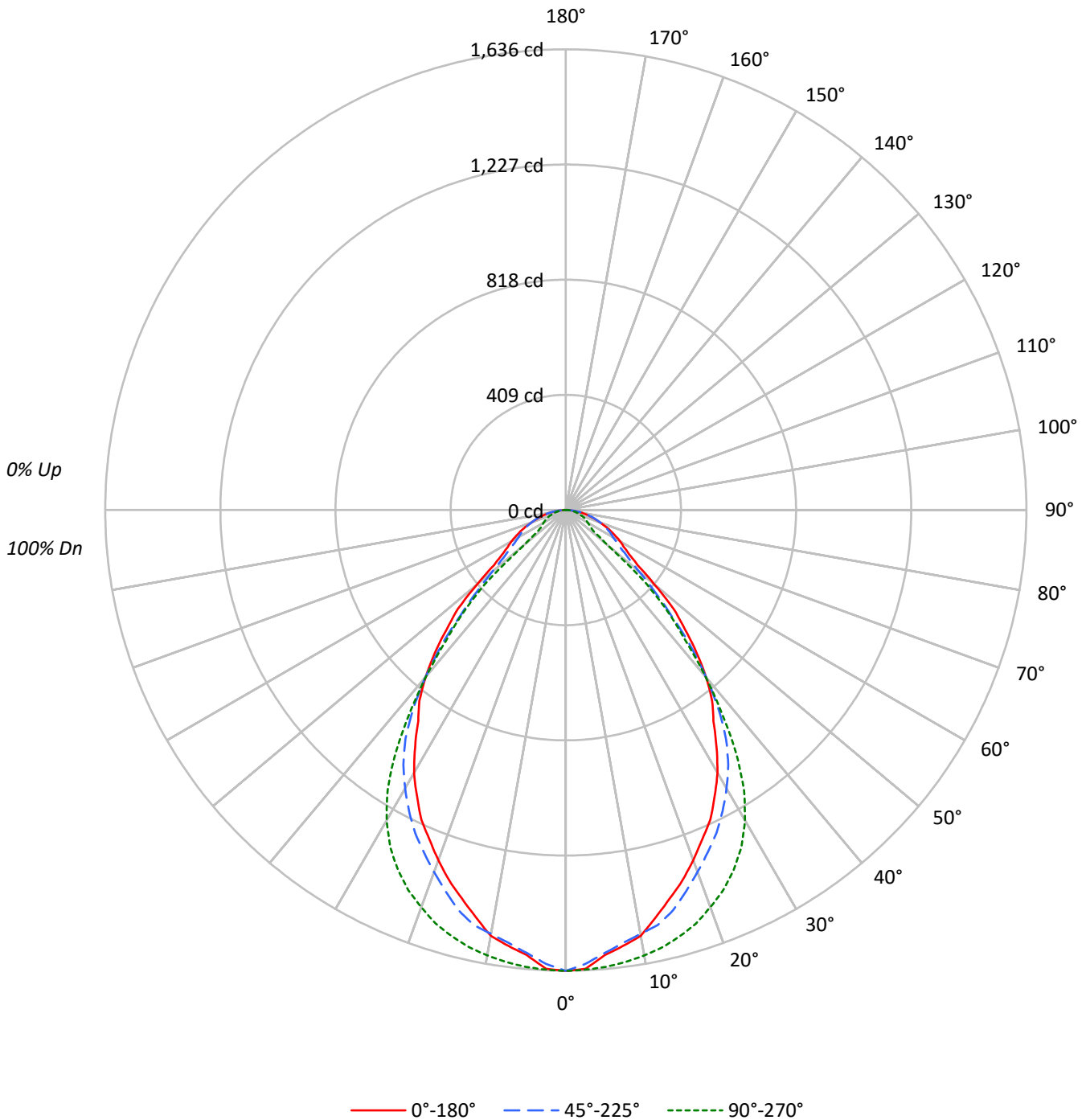
Test Method: LM-79-2019  
Report Number: P893049  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-26)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-SC3-LVRA-UNV-CC83-HI-5000K  
Description: Selectable 2FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 80CRI, 5000K CCT, HI lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2656.0 lumens  
Efficiency: N/A  
Efficacy: 126.5 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): 21  
Input Voltage (V): 120  
Input Current (Ain): 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	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°	23411	23411	23411
5°	22779	22678	23385
10°	22296	22197	23330
15°	21144	21795	23200
20°	20142	20823	22846
25°	19161	19980	22262
30°	17802	18861	21020
35°	15962	17333	18437
40°	14462	14493	14415
45°	12092	10708	10445
50°	9134	7538	4271
55°	6869	6028	2694
60°	6383	5551	2595
65°	5941	5541	2600
70°	5433	5433	2560
75°	5151	5290	2471
80°	4762	5001	2537
85°	4153	4366	2774

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 12373 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.2	5.7
10°-20°	416.5	15.7
20°-30°	590.7	22.2
30°-40°	608.5	22.9
40°-50°	425.0	16.0
50°-60°	203.9	7.7
60°-70°	143.1	5.4
70°-80°	89.5	3.4
80°-90°	27.7	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°	1158.3	43.6
0°-40°	1766.8	66.5
0°-60°	2395.8	90.2
0°-90°	2656.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2656.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1636	1636	1636	1636	1636	
5°	1586	1584	1579	1620	1628	150
15°	1428	1438	1472	1514	1566	402
25°	1214	1226	1266	1351	1410	555
35°	914	939	992	1013	1056	576
45°	598	612	529	502	516	460
55°	275	262	242	155	108	258
65°	176	164	164	124	77	174
75°	93	92	96	83	45	98
85°	25	25	27	26	17	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1636.5	1636.5	1636.5	1636.5	1636.5
2.5°	1630.2	1625.1	1612.9	1635.2	1633.6
5°	1586.3	1584.2	1579.2	1620.5	1628.5
7.5°	1561.4	1557.2	1551.3	1596.9	1619.2
10°	1534.9	1539.9	1528.1	1569.9	1606.1
12.5°	1480.0	1493.5	1509.6	1542.0	1590.1
15°	1427.7	1438.3	1471.6	1513.8	1566.5
17.5°	1378.8	1391.0	1419.7	1483.0	1539.1
20°	1323.1	1340.0	1367.8	1448.8	1500.7
22.5°	1265.8	1281.4	1316.4	1403.3	1461.1
25°	1213.9	1226.1	1265.8	1351.4	1410.4
27.5°	1145.1	1167.9	1205.5	1288.1	1350.1
30°	1077.7	1097.1	1141.8	1211.4	1272.5
32.5°	996.2	1024.5	1073.9	1127.0	1178.0
35°	914.0	938.9	992.5	1013.1	1055.7
37.5°	854.1	860.9	891.2	888.7	912.7
40°	774.4	787.9	776.1	744.4	771.9
42.5°	688.3	704.4	656.7	620.0	629.7
45°	597.7	611.6	529.3	502.3	516.3
47.5°	519.2	517.9	426.8	408.7	389.3
50°	410.4	423.9	338.7	304.9	191.9
52.5°	320.6	325.6	279.2	194.9	126.1
55°	275.4	261.9	241.7	154.8	108.0
57.5°	244.6	227.8	214.3	143.8	98.7
60°	223.1	204.1	194.0	136.7	90.7
62.5°	198.7	183.9	180.1	130.3	83.5
65°	175.5	164.1	163.7	124.4	76.8
67.5°	152.3	145.9	147.6	117.3	69.2
70°	129.9	128.6	129.9	108.0	61.2
72.5°	110.9	109.7	113.0	96.2	52.3
75°	93.2	91.9	95.7	82.7	44.7
77.5°	74.2	75.1	77.6	68.8	37.5
80°	57.8	57.8	60.7	54.0	30.8
82.5°	41.3	41.8	43.4	39.6	24.0
85°	25.3	25.3	26.6	26.2	16.9
87.5°	8.4	9.7	11.4	12.2	8.4
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	16.60	17.96	16.97	18.27	18.58	12.93	14.29	13.30	14.60	14.91
	3H	18.34	19.55	18.72	19.88	20.24	14.91	16.12	15.29	16.45	16.81
	4H	19.01	20.14	19.41	20.49	20.87	15.62	16.74	16.02	17.09	17.48
	6H	19.52	20.56	19.93	20.93	21.32	16.14	17.18	16.55	17.55	17.94
	8H	19.69	20.68	20.12	21.07	21.47	16.32	17.31	16.75	17.70	18.10
	12H	19.80	20.74	20.23	21.12	21.55	16.46	17.41	16.89	17.79	18.22
4H	2H	17.13	18.26	17.54	18.61	18.99	14.56	15.68	14.96	16.03	16.42
	3H	19.11	20.04	19.52	20.44	20.85	16.74	17.67	17.15	18.07	18.47
	4H	19.91	20.75	20.35	21.17	21.61	17.62	18.45	18.05	18.87	19.31
	6H	20.56	21.28	21.02	21.72	22.19	18.26	18.98	18.72	19.43	19.89
	8H	20.77	21.45	21.24	21.90	22.37	18.47	19.14	18.93	19.59	20.06
	12H	20.93	21.53	21.41	22.01	22.48	18.62	19.22	19.11	19.71	20.18
8H	4H	20.20	20.87	20.66	21.32	21.79	18.26	18.94	18.73	19.39	19.86
	6H	20.98	21.53	21.48	22.03	22.51	19.13	19.68	19.63	20.18	20.66
	8H	21.28	21.78	21.80	22.29	22.79	19.45	19.95	19.97	20.46	20.96
	12H	21.52	21.96	22.03	22.45	23.02	19.72	20.16	20.23	20.65	21.22
12H	4H	20.21	20.81	20.70	21.29	21.77	18.34	18.94	18.82	19.42	19.89
	6H	21.03	21.53	21.55	22.04	22.54	19.26	19.76	19.78	20.28	20.77
	8H	21.40	21.84	21.91	22.33	22.90	19.67	20.12	20.19	20.61	21.18