

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: P893076

Luminaire Tested: 2MB-SC3-LVRF-UNV-CC93-HI-5000K

Issue Date: 11/11/2024

**Test Information**

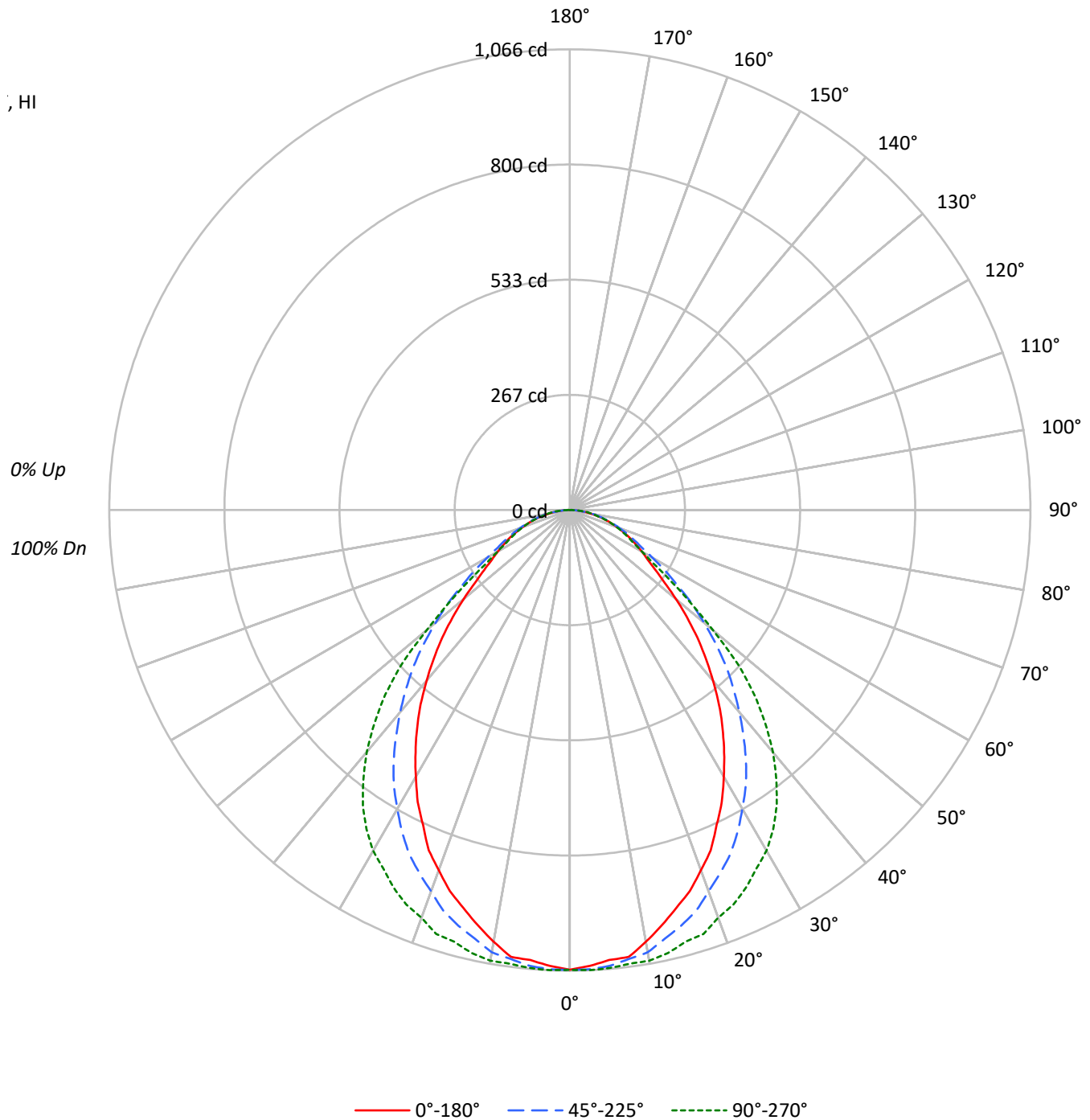
Test Method: LM-79-2019  
Report Number: P893076  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-SC3-LVRF-UNV-CC93-HI-5000K  
Description: Selectable 2FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 90CRI, 5000K CCT  
lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2156.0 lumens  
Efficiency: N/A  
Efficacy: 102.7 lumens/watt  
Spacing Criteria (0/90/45): 1.04 / 1.26 / 1.21  
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	110	106	102	99	108	104	100	97	100	97	94	96	94	91	92	90	89	89	89	89	87
2	102	94	88	83	99	93	87	82	89	84	80	86	82	79	83	80	77	77	77	77	75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	67	67	67	65
4	87	76	68	62	84	75	67	62	72	66	61	70	64	60	68	63	59	59	59	59	57
5	80	69	61	54	78	68	60	54	66	59	54	64	58	53	62	57	53	53	53	53	51
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	47	47	47	45
7	70	57	49	43	68	56	49	43	55	48	43	54	47	43	52	47	42	42	42	42	41
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	38	38	38	37
9	61	49	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	35	35	35	33
10	57	45	38	33	56	45	37	33	44	37	32	43	37	32	42	36	32	32	32	32	31

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

	0°	45°	90°
0°	15218	15218	15218
5°	15008	15206	15276
10°	14738	15096	15382
15°	14110	14749	15318
20°	13500	14293	15281
25°	12694	13873	15224
30°	11774	13187	15038
35°	10765	12413	14577
40°	9621	11401	13660
45°	8434	10342	12213
50°	7133	9016	9605
55°	6033	7577	7038
60°	5513	6329	5542
65°	5226	5558	5027
70°	4894	5140	4810
75°	4565	4836	4621
80°	4210	4539	4457
85°	3709	4038	4842

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 12213 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.4	4.7
10°-20°	280.8	13.0
20°-30°	404.8	18.8
30°-40°	446.5	20.7
40°-50°	390.8	18.1
50°-60°	256.8	11.9
60°-70°	156.9	7.3
70°-80°	90.8	4.2
80°-90°	28.2	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°	786.0	36.5
0°-40°	1232.4	57.2
0°-60°	1880.1	87.2
0°-90°	2156.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2156.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1064	1064	1064	1064	1064	
5°	1045	1056	1059	1065	1064	99
15°	953	968	996	1028	1034	268
25°	804	832	879	932	964	370
35°	616	643	711	790	835	384
45°	417	442	511	574	604	321
55°	242	255	304	305	282	221
65°	154	154	164	157	148	152
75°	83	83	88	90	84	88
85°	23	23	25	26	30	26
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1063.8	1063.8	1063.8	1063.8	1063.8
2.5°	1055.9	1061.8	1063.8	1067.7	1065.7
5°	1045.1	1055.9	1058.9	1064.8	1063.8
7.5°	1043.1	1039.2	1048.0	1059.8	1058.9
10°	1014.6	1022.5	1039.2	1056.9	1058.9
12.5°	984.1	996.9	1015.6	1046.1	1050.0
15°	952.7	968.4	995.9	1028.4	1034.3
17.5°	924.2	939.9	972.3	1008.7	1028.4
20°	886.8	908.4	938.9	984.1	1003.8
22.5°	852.4	870.1	909.4	958.6	988.1
25°	804.2	831.7	878.9	932.0	964.5
27.5°	761.9	787.5	840.6	899.6	935.0
30°	712.8	741.3	798.3	864.2	910.4
32.5°	664.6	691.2	758.0	825.9	876.0
35°	616.4	643.0	710.8	789.5	834.7
37.5°	567.3	594.8	660.7	741.3	784.6
40°	515.2	546.6	610.5	690.2	731.5
42.5°	466.0	495.5	560.4	638.1	669.5
45°	416.9	442.4	511.2	574.2	603.7
47.5°	367.7	392.3	458.2	510.3	527.0
50°	320.5	343.1	405.1	437.5	431.6
52.5°	276.3	296.9	355.9	368.7	352.0
55°	241.9	254.6	303.8	304.8	282.2
57.5°	213.3	223.2	261.5	251.7	227.1
60°	192.7	195.6	221.2	210.4	193.7
62.5°	172.1	174.0	187.8	179.9	167.1
65°	154.4	154.4	164.2	157.3	148.5
67.5°	134.7	135.7	142.6	138.6	131.7
70°	117.0	117.0	122.9	122.9	115.0
72.5°	99.3	99.3	104.2	105.2	100.3
75°	82.6	82.6	87.5	89.5	83.6
77.5°	66.9	66.9	70.8	73.7	66.9
80°	51.1	51.1	55.1	58.0	54.1
82.5°	36.4	37.4	39.3	42.3	42.3
85°	22.6	22.6	24.6	26.5	29.5
87.5°	9.8	10.8	11.8	12.8	14.7
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	16.87	18.35	17.24	18.66	18.98	17.62	19.09	17.98	19.41	19.72
	3H	18.47	19.79	18.85	20.12	20.48	18.96	20.28	19.33	20.60	20.97
	4H	19.09	20.32	19.49	20.67	21.05	19.53	20.77	19.93	21.12	21.50
	6H	19.56	20.71	19.98	21.07	21.47	19.99	21.13	20.40	21.50	21.89
	8H	19.72	20.81	20.15	21.20	21.60	20.17	21.26	20.60	21.64	22.05
	12H	19.83	20.87	20.26	21.25	21.68	20.32	21.36	20.75	21.74	22.17
4H	2H	17.50	18.74	17.90	19.08	19.46	18.10	19.33	18.50	19.68	20.06
	3H	19.31	20.33	19.72	20.73	21.13	19.70	20.73	20.11	21.13	21.53
	4H	20.04	20.96	20.47	21.38	21.82	20.43	21.35	20.86	21.77	22.21
	6H	20.64	21.44	21.10	21.88	22.35	21.04	21.84	21.50	22.28	22.75
	8H	20.84	21.59	21.31	22.04	22.51	21.28	22.03	21.74	22.47	22.94
	12H	20.99	21.66	21.48	22.14	22.61	21.48	22.15	21.96	22.63	23.10
8H	4H	20.35	21.10	20.82	21.55	22.01	20.70	21.45	21.16	21.89	22.36
	6H	21.08	21.70	21.58	22.19	22.67	21.45	22.07	21.95	22.56	23.04
	8H	21.36	21.92	21.87	22.43	22.92	21.78	22.34	22.29	22.85	23.34
	12H	21.58	22.08	22.09	22.57	23.14	22.07	22.57	22.58	23.06	23.63
12H	4H	20.39	21.06	20.87	21.53	22.01	20.72	21.38	21.20	21.86	22.34
	6H	21.14	21.70	21.66	22.21	22.70	21.50	22.06	22.01	22.57	23.06
	8H	21.48	21.98	22.00	22.47	23.04	21.89	22.38	22.40	22.87	23.44