

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: P895782

Luminaire Tested: 2MB-SC3-ACL-UNV-CC93-HI-3500K

Issue Date: 11/19/2024

**Test Information**

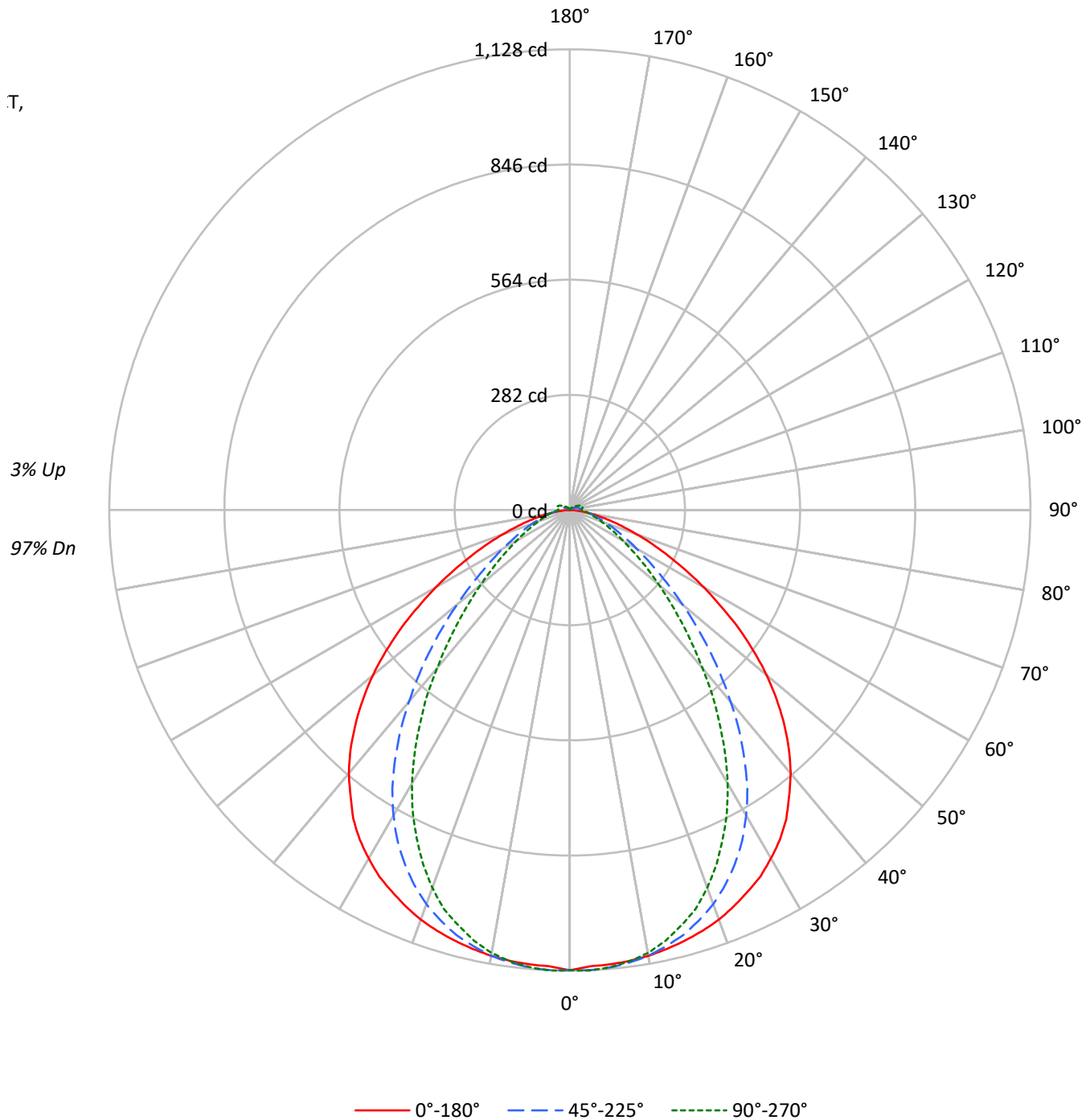
Test Method: LM-79-2019  
Report Number: P895782  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/19/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-SC3-ACL-UNV-CC93-HI-3500K  
Description: Selectable 2FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS, 90CRI, 3500K CC  
HI lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2348.0 lumens  
Efficiency: N/A  
Efficacy: 111.8 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.07 / 1.17  
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 1.98' x H: 0.08')  
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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	99	97
1	110	105	102	98	107	103	100	97	98	96	93	94	92	90	90	88	87	87	87	87	84
2	101	94	88	83	98	92	86	82	88	83	80	84	81	77	81	78	75	75	75	75	73
3	93	84	77	71	91	82	76	70	79	73	69	76	71	67	73	69	66	66	66	66	64
4	86	76	68	62	84	74	67	61	71	65	60	69	63	59	66	62	58	58	58	58	56
5	80	68	60	54	78	67	60	54	65	58	53	63	57	52	61	56	52	52	52	52	50
6	74	62	54	48	72	61	54	48	59	52	47	57	51	47	56	50	46	46	46	46	44
7	69	57	49	43	68	56	49	43	54	48	43	53	47	42	51	46	42	42	42	42	40
8	65	52	45	39	63	52	44	39	50	43	39	49	43	38	47	42	38	38	38	38	36
9	61	48	41	36	59	48	40	35	46	40	35	45	39	35	44	39	35	35	35	35	33
10	57	45	38	33	56	44	37	32	43	37	32	42	36	32	41	36	32	32	32	32	30

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

	0°	45°	90°
0°	23073	23073	23073
5°	22871	22616	22483
10°	22874	22066	21699
15°	22874	21380	20598
20°	22904	20500	19251
25°	22841	19342	17480
30°	22739	17828	15473
35°	22434	15851	13112
40°	21734	13521	10687
45°	20638	11127	8467
50°	19098	8845	6609
55°	17006	6876	5119
60°	14486	5369	4007
65°	11839	4265	3187
70°	9391	3455	2615
75°	7255	2812	2286
80°	5160	2372	2071
85°	2950	2068	1865

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 20638 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.7	4.5
10°-20°	302.8	12.9
20°-30°	440.1	18.7
30°-40°	475.8	20.3
40°-50°	401.4	17.1
50°-60°	275.0	11.7
60°-70°	160.3	6.8
70°-80°	81.9	3.5
80°-90°	35.3	1.5
90°-100°	21.4	0.9
100°-110°	19.2	0.8
110°-120°	13.0	0.6
120°-130°	7.3	0.3
130°-140°	4.0	0.2
140°-150°	2.1	0.1
150°-160°	1.1	0.0
160°-170°	0.4	0.0
170°-180°	0.1	0.0
0°-30°	849.7	36.2
0°-40°	1325.4	56.5
0°-60°	2001.9	85.3
0°-90°	2279.4	97.1
90°-120°	53.6	2.3
90°-150°	67.0	2.9
90°-180°	69.0	2.9
0°-180°	2348.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1127	1127	1127	1127	1127	
5°	1117	1124	1124	1127	1124	106
15°	1091	1090	1076	1063	1053	308
25°	1031	1011	956	909	887	476
35°	924	864	746	666	640	576
45°	743	628	481	407	384	571
55°	505	383	262	219	208	450
65°	266	196	136	115	110	268
75°	106	87	69	64	63	115
85°	19	26	34	36	36	23
90°	1	12	25	28	28	1
95°	0	11	24	29	29	0
105°	0	6	21	30	32	0
115°	0	4	13	22	26	0
125°	0	2	8	13	16	0
135°	1	2	5	8	9	1
145°	1	2	4	5	5	1
155°	1	2	2	3	4	0
165°	1	1	2	2	2	0
175°	1	1	2	2	1	0
180°	1	1	1	1	1	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1126.8	1126.8	1126.8	1126.8	1126.8
2.5°	1118.3	1125.3	1127.6	1130.7	1128.4
5°	1116.8	1123.8	1124.5	1126.8	1123.8
7.5°	1113.7	1119.1	1117.6	1117.6	1114.5
10°	1108.3	1111.4	1108.3	1104.4	1101.3
12.5°	1100.5	1102.8	1093.5	1088.1	1080.4
15°	1091.2	1090.4	1076.5	1063.3	1053.3
17.5°	1080.4	1075.0	1053.3	1033.1	1024.6
20°	1067.2	1057.1	1026.9	997.5	984.3
22.5°	1050.2	1036.2	994.4	956.5	938.7
25°	1030.8	1010.7	956.5	909.2	886.8
27.5°	1011.5	981.3	913.9	855.0	833.3
30°	985.1	947.2	863.5	796.9	772.9
32.5°	957.2	909.2	809.3	731.9	707.9
35°	923.9	864.3	745.8	666.0	639.7
37.5°	882.1	811.6	681.5	597.9	575.4
40°	841.8	754.3	612.6	529.7	505.0
42.5°	794.6	692.4	546.0	465.5	443.0
45°	742.7	628.1	480.9	406.6	384.1
47.5°	687.7	566.9	419.0	350.1	332.2
50°	629.6	504.2	360.9	301.3	285.0
52.5°	567.7	441.4	307.5	257.9	243.2
55°	505.0	382.6	261.8	219.2	207.6
57.5°	439.1	326.1	223.0	186.6	175.8
60°	379.5	278.8	188.2	159.5	151.0
62.5°	320.6	235.4	160.3	135.5	128.6
65°	266.4	195.9	135.5	115.4	110.0
67.5°	219.2	164.2	116.2	99.1	95.3
70°	175.0	134.0	97.6	85.2	81.3
72.5°	137.9	108.4	82.1	73.6	71.3
75°	106.1	86.7	68.9	64.3	62.7
77.5°	77.4	66.6	58.1	55.8	55.0
80°	54.2	50.3	48.8	48.8	48.8
82.5°	34.1	37.2	41.0	42.6	42.6
85°	18.6	25.6	34.1	36.4	36.4
87.5°	7.7	17.8	28.7	31.0	30.2
90°	0.8	11.6	24.8	27.9	27.9
92.5°	0.0	11.6	24.8	27.9	27.9
95°	0.0	10.8	24.0	28.7	29.4
97.5°	0.0	10.1	24.0	29.4	30.2
100°	0.8	9.3	24.0	30.2	31.0
102.5°	0.0	7.7	22.5	30.2	31.8
105°	0.0	6.2	20.9	30.2	31.8
107.5°	0.0	4.6	19.4	28.7	31.0
110°	0.0	4.6	17.8	27.1	29.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	3.9	15.5	24.8	27.9
115°	0.0	3.9	13.2	22.5	25.6
117.5°	0.0	3.1	11.6	20.1	22.5
120°	0.0	3.1	10.1	17.8	20.1
122.5°	0.0	3.1	9.3	15.5	17.8
125°	0.0	2.3	7.7	13.2	15.5
127.5°	0.8	2.3	7.0	11.6	13.9
130°	0.8	2.3	6.2	10.1	12.4
132.5°	0.8	2.3	5.4	9.3	10.8
135°	0.8	2.3	5.4	7.7	9.3
137.5°	0.8	2.3	4.6	7.0	7.7
140°	0.8	2.3	3.9	6.2	7.0
142.5°	0.8	1.5	3.9	5.4	6.2
145°	0.8	1.5	3.9	4.6	5.4
147.5°	0.8	1.5	3.1	4.6	4.6
150°	0.8	1.5	3.1	3.9	4.6
152.5°	0.8	1.5	2.3	3.9	3.9
155°	0.8	1.5	2.3	3.1	3.9
157.5°	0.8	1.5	2.3	3.1	3.1
160°	0.8	1.5	1.5	2.3	3.1
162.5°	0.8	0.8	1.5	2.3	2.3
165°	0.8	0.8	1.5	2.3	2.3
167.5°	0.8	0.8	1.5	1.5	2.3
170°	0.8	0.8	1.5	1.5	1.5
172.5°	0.8	0.8	1.5	1.5	0.8
175°	0.8	0.8	1.5	1.5	0.8
177.5°	0.8	0.8	1.5	0.8	0.8
180°	0.8	0.8	0.8	0.8	0.8



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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	19.44	20.84	19.85	21.21	21.60	15.76	17.16	16.17	17.54	17.93
	3H	20.51	21.76	20.93	22.15	22.58	16.94	18.19	17.37	18.58	19.02
	4H	20.80	21.97	21.25	22.38	22.83	17.47	18.64	17.92	19.05	19.50
	6H	20.93	22.01	21.39	22.44	22.91	18.00	19.09	18.47	19.51	19.98
	8H	20.94	21.97	21.42	22.42	22.89	18.28	19.31	18.76	19.76	20.23
	12H	20.93	21.92	21.41	22.36	22.86	18.58	19.56	19.06	20.00	20.50
4H	2H	19.47	20.64	19.92	21.05	21.50	16.22	17.39	16.67	17.80	18.25
	3H	20.69	21.66	21.15	22.12	22.60	17.58	18.55	18.04	19.01	19.48
	4H	21.07	21.94	21.55	22.42	22.93	18.21	19.09	18.70	19.56	20.07
	6H	21.29	22.05	21.80	22.55	23.08	18.88	19.64	19.39	20.14	20.67
	8H	21.32	22.03	21.84	22.53	23.07	19.23	19.94	19.74	20.44	20.97
	12H	21.33	21.96	21.86	22.49	23.03	19.61	20.24	20.14	20.77	21.31
8H	4H	21.09	21.80	21.60	22.30	22.84	18.43	19.14	18.94	19.64	20.18
	6H	21.36	21.95	21.91	22.50	23.04	19.22	19.80	19.76	20.35	20.89
	8H	21.43	21.96	22.00	22.52	23.08	19.65	20.18	20.22	20.74	21.30
	12H	21.47	21.94	22.03	22.48	23.11	20.16	20.62	20.71	21.17	21.80
12H	4H	21.08	21.71	21.61	22.24	22.78	18.44	19.07	18.97	19.60	20.14
	6H	21.36	21.89	21.92	22.45	23.01	19.25	19.78	19.81	20.34	20.89
	8H	21.46	21.93	22.02	22.48	23.11	19.74	20.21	20.30	20.76	21.39