

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: P892925

Luminaire Tested: 2MB-SC3-AOL-UNV-CC83-LOW-4000K

Issue Date: 11/11/2024

**Test Information**

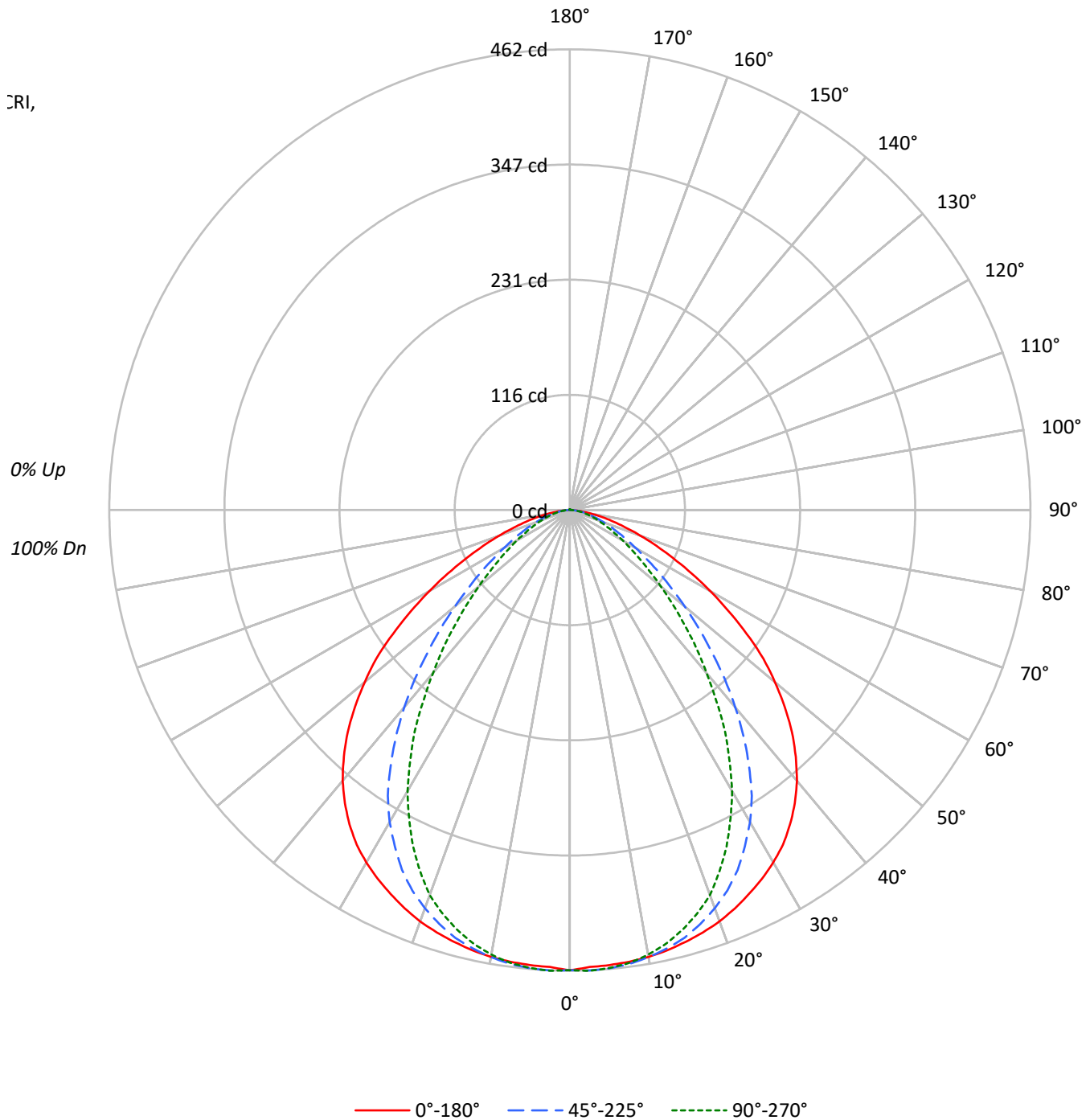
Test Method: LM-79-2019  
Report Number: P892925  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-SC3-AOL-UNV-CC83-LOW-4000K  
Description: Selectable 2FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS NO UPLIGHT, 800  
4000K CCT, LOW lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 940.9 lumens  
Efficiency: N/A  
Efficacy: 136.4 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.08 / 1.18  
Luminous Opening: Rectangular (W 0.27' 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	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	89	89	89	87
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	78	78	78	76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	68	68	68	66
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	60	60	60	58
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	53	53	53	52
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	52	48	48	48	48	46
7	70	58	50	44	69	57	49	44	56	49	44	54	48	43	53	47	43	43	43	43	41
8	66	53	45	40	64	52	45	40	51	44	40	50	44	39	49	43	39	39	39	39	37
9	62	49	42	36	60	49	41	36	47	41	36	46	40	36	45	40	36	36	36	36	34
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	33	33	33	31

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

	0°	45°	90°
0°	9450	9450	9450
5°	9416	9480	9474
10°	9461	9467	9415
15°	9506	9414	9243
20°	9568	9261	8956
25°	9602	8997	8405
30°	9652	8545	7696
35°	9626	7832	6787
40°	9476	6899	5707
45°	9128	5829	4709
50°	8560	4791	3797
55°	7733	3888	3052
60°	6659	3133	2531
65°	5533	2587	2103
70°	4538	2167	1796
75°	3608	1851	1559
80°	2724	1580	1403
85°	1833	1457	1316

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 9128 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	43.8	4.7
10°-20°	124.9	13.3
20°-30°	183.0	19.4
30°-40°	199.6	21.2
40°-50°	169.3	18.0
50°-60°	115.1	12.2
60°-70°	65.0	6.9
70°-80°	29.7	3.2
80°-90°	7.7	0.8
90°-100°	1.0	0.1
100°-110°	0.6	0.1
110°-120°	0.3	0.0
120°-130°	0.3	0.0
130°-140°	0.2	0.0
140°-150°	0.2	0.0
150°-160°	0.1	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	351.7	37.4
0°-40°	551.3	58.6
0°-60°	835.7	88.8
0°-90°	938.1	99.7
90°-120°	1.9	0.2
90°-150°	2.6	0.3
90°-180°	3.0	0.3
0°-180°	940.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	462	462	462	462	462	
5°	458	461	461	462	461	44
15°	448	448	444	439	436	127
25°	425	418	398	380	372	196
35°	385	360	313	280	272	240
45°	315	266	201	171	163	242
55°	217	160	109	90	86	193
65°	114	81	53	46	43	115
75°	46	33	23	21	20	49
85°	8	7	6	6	6	10
90°	0	1	1	2	2	0
95°	0	0	1	2	2	0
105°	0	0	1	1	1	0
115°	0	0	0	1	1	0
125°	0	0	0	1	1	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	1	1	0
175°	0	0	1	1	1	0
180°	1	1	1	1	1	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	461.5	461.5	461.5	461.5	461.5
2.5°	458.7	461.2	462.2	463.4	462.5
5°	458.1	460.6	461.2	462.2	460.9
7.5°	456.9	459.0	459.0	459.0	458.1
10°	455.0	456.6	455.3	454.1	452.8
12.5°	452.2	452.8	450.3	448.1	445.6
15°	448.4	448.1	444.1	439.1	436.0
17.5°	444.1	442.8	435.3	428.8	424.4
20°	439.1	436.0	425.0	414.7	411.0
22.5°	432.5	428.2	412.9	398.5	392.3
25°	425.0	417.9	398.2	380.1	372.0
27.5°	417.2	406.6	380.1	357.6	348.9
30°	408.2	393.5	361.4	335.5	325.5
32.5°	397.9	379.2	339.8	308.6	298.0
35°	385.1	360.4	313.3	280.5	271.5
37.5°	370.7	340.5	286.5	252.5	241.5
40°	354.5	317.7	258.1	224.1	213.5
42.5°	335.5	293.3	230.0	196.9	187.9
45°	315.2	266.2	201.3	171.0	162.6
47.5°	292.4	239.4	175.1	146.4	139.8
50°	268.7	212.5	150.4	125.8	119.2
52.5°	244.7	185.7	127.6	106.7	101.1
55°	216.6	160.1	108.9	90.5	85.5
57.5°	189.1	137.3	91.1	75.8	72.7
60°	162.6	115.5	76.5	64.0	61.8
62.5°	137.9	96.7	64.3	54.0	51.2
65°	114.2	81.1	53.4	45.6	43.4
67.5°	93.9	66.2	44.6	37.8	35.9
70°	75.8	53.4	36.2	30.9	30.0
72.5°	59.0	42.8	29.6	25.6	24.7
75°	45.6	33.4	23.4	20.6	19.7
77.5°	33.4	25.0	18.1	15.9	15.3
80°	23.1	17.8	13.4	12.2	11.9
82.5°	14.7	11.5	9.7	8.7	8.7
85°	7.8	7.2	6.2	5.9	5.6
87.5°	3.1	3.4	3.4	3.4	3.1
90°	0.0	0.9	1.2	1.6	1.6
92.5°	0.0	0.6	1.2	1.6	1.6
95°	0.0	0.3	0.9	1.6	1.6
97.5°	0.0	0.3	0.9	1.2	1.2
100°	0.0	0.3	0.6	1.2	1.2
102.5°	0.0	0.3	0.6	0.9	1.2
105°	0.0	0.3	0.6	0.9	0.9
107.5°	0.0	0.0	0.6	0.9	0.9
110°	0.0	0.0	0.3	0.6	0.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.3	0.6	0.9
115°	0.0	0.0	0.3	0.6	0.6
117.5°	0.0	0.0	0.3	0.6	0.6
120°	0.0	0.0	0.3	0.6	0.6
122.5°	0.0	0.0	0.3	0.6	0.6
125°	0.0	0.0	0.3	0.6	0.6
127.5°	0.0	0.3	0.3	0.3	0.6
130°	0.0	0.3	0.3	0.3	0.6
132.5°	0.3	0.3	0.3	0.3	0.3
135°	0.3	0.3	0.3	0.3	0.3
137.5°	0.3	0.3	0.3	0.3	0.3
140°	0.3	0.3	0.3	0.3	0.3
142.5°	0.3	0.3	0.3	0.3	0.3
145°	0.3	0.3	0.3	0.3	0.3
147.5°	0.3	0.3	0.3	0.3	0.3
150°	0.3	0.3	0.3	0.3	0.3
152.5°	0.3	0.3	0.3	0.3	0.3
155°	0.3	0.3	0.3	0.3	0.3
157.5°	0.3	0.3	0.3	0.3	0.3
160°	0.3	0.3	0.3	0.3	0.6
162.5°	0.3	0.3	0.3	0.6	0.6
165°	0.3	0.3	0.3	0.6	0.6
167.5°	0.3	0.3	0.3	0.6	0.6
170°	0.3	0.3	0.3	0.6	0.6
172.5°	0.3	0.3	0.3	0.6	0.6
175°	0.3	0.3	0.6	0.6	0.6
177.5°	0.3	0.3	0.6	0.6	0.6
180°	0.6	0.6	0.6	0.6	0.6



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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	18.14	19.58	18.51	19.90	20.23	13.50	14.94	13.87	15.26	15.59
	3H	19.39	20.68	19.78	21.01	21.39	14.54	15.83	14.93	16.17	16.54
	4H	19.79	21.00	20.20	21.35	21.74	14.91	16.12	15.32	16.47	16.86
	6H	20.03	21.14	20.45	21.52	21.92	15.17	16.28	15.59	16.66	17.06
	8H	20.09	21.14	20.52	21.54	21.95	15.26	16.32	15.70	16.72	17.13
	12H	20.11	21.11	20.54	21.50	21.94	15.33	16.34	15.76	16.73	17.16
4H	2H	18.15	19.36	18.56	19.71	20.10	14.08	15.28	14.48	15.64	16.02
	3H	19.56	20.55	19.98	20.96	21.37	15.30	16.30	15.72	16.70	17.11
	4H	20.06	20.94	20.49	21.37	21.82	15.76	16.65	16.20	17.08	17.52
	6H	20.40	21.17	20.86	21.62	22.09	16.12	16.89	16.59	17.34	17.81
	8H	20.48	21.20	20.95	21.65	22.13	16.24	16.96	16.72	17.42	17.89
	12H	20.53	21.17	21.02	21.66	22.14	16.34	16.98	16.83	17.47	17.95
8H	4H	20.05	20.77	20.52	21.22	21.69	16.05	16.77	16.53	17.22	17.70
	6H	20.44	21.03	20.94	21.53	22.02	16.50	17.09	17.00	17.59	18.08
	8H	20.56	21.09	21.08	21.61	22.11	16.68	17.21	17.20	17.73	18.22
	12H	20.65	21.12	21.17	21.62	22.20	16.84	17.31	17.36	17.81	18.39
12H	4H	20.02	20.66	20.51	21.15	21.63	16.08	16.73	16.57	17.21	17.69
	6H	20.41	20.94	20.93	21.46	21.96	16.55	17.08	17.07	17.60	18.10
	8H	20.57	21.04	21.08	21.54	22.11	16.78	17.25	17.30	17.75	18.32