

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: P892890

Luminaire Tested: 2MB-SC3-A-UNV-CC83-LOW-5000K

Issue Date: 11/11/2024

**Test Information**

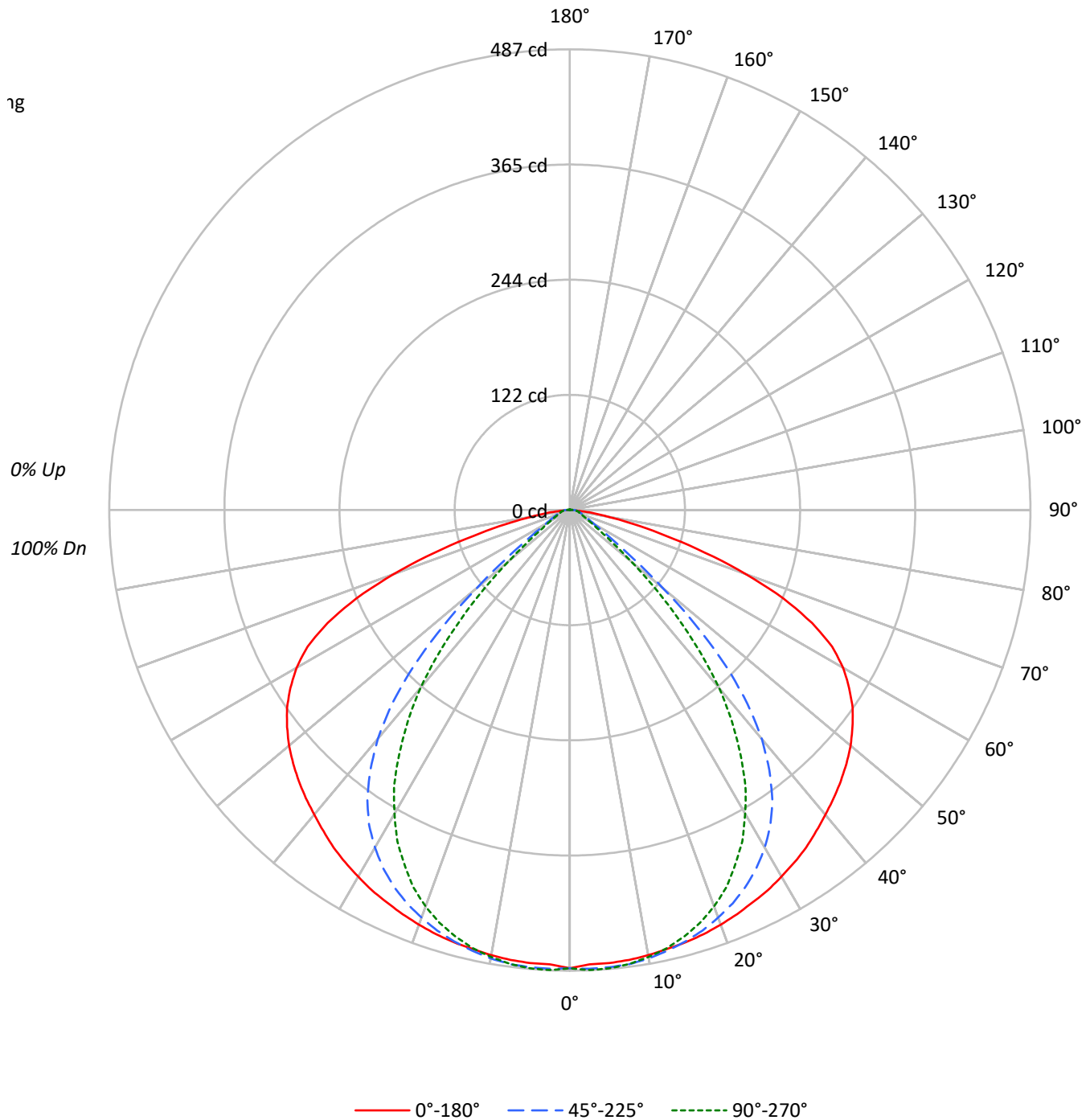
Test Method: LM-79-2019  
Report Number: P892890  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-SC3-A-UNV-CC83-LOW-5000K  
Description: Selectable 2FT MICROBAY LINEAR BAY with AISLE OPTIC, 80CRI, 5000K CCT, LOW lumen settir  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1016.0 lumens  
Efficiency: N/A  
Efficacy: 147.2 lumens/watt  
Spacing Criteria (0/90/45): 1.39 / 1.15 / 1.25  
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	105	101	99	100	98	95	97	94	93	93	91	90	93	91	90	88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	84	81	79	77
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	76	73	69	76	73	69	67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	70	65	61	59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	63	59	55	63	59	55	53
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	58	53	49	47
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	54	48	44	42
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	50	44	40	38
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	40	36	46	40	36	35
10	58	46	39	34	57	46	39	34	45	38	34	44	38	33	43	37	33	43	37	33	32

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

	0°	45°	90°
0°	9919	9919	9919
5°	9881	9971	9996
10°	9935	10007	9974
15°	10029	10008	9896
20°	10163	9991	9716
25°	10339	9932	9347
30°	10581	9744	8767
35°	10886	9331	7854
40°	11235	8441	6568
45°	11734	6768	4683
50°	12344	4116	2685
55°	13034	1985	1442
60°	13670	1216	983
65°	13692	979	809
70°	11854	886	754
75°	8347	902	823
80°	4917	1085	1038
85°	2302	1621	1551

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 62.5°  
 Luminance: 13862 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.2	4.5
10°-20°	133.2	13.1
20°-30°	201.6	19.8
30°-40°	232.8	22.9
40°-50°	199.1	19.6
50°-60°	108.8	10.7
60°-70°	54.9	5.4
70°-80°	26.7	2.6
80°-90°	9.2	0.9
90°-100°	2.2	0.2
100°-110°	0.3	0.0
110°-120°	0.1	0.0
120°-130°	0.1	0.0
130°-140°	0.2	0.0
140°-150°	0.2	0.0
150°-160°	0.2	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	381.0	37.5
0°-40°	613.8	60.4
0°-60°	921.6	90.7
0°-90°	1012.4	99.7
90°-120°	2.7	0.3
90°-150°	3.2	0.3
90°-180°	4.0	0.4
0°-180°	1016.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	484	484	484	484	484	
5°	481	484	485	487	486	46
15°	473	476	472	470	467	134
25°	458	455	440	422	414	212
35°	436	421	373	330	314	273
45°	405	354	234	174	162	313
55°	365	168	56	43	40	325
65°	283	31	20	18	17	274
75°	106	17	11	11	10	117
85°	10	10	7	7	7	15
90°	0	6	4	4	4	0
95°	0	1	2	3	2	0
105°	0	0	0	1	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	1	0	0
165°	0	0	1	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°	484.4	484.4	484.4	484.4	484.4
2.5°	480.7	484.1	485.4	487.6	486.7
5°	480.7	484.4	485.1	487.0	486.3
7.5°	479.7	483.2	484.1	485.1	483.8
10°	477.8	481.3	481.3	481.3	479.7
12.5°	475.3	479.1	477.2	475.9	474.3
15°	473.1	475.9	472.1	469.9	466.8
17.5°	470.2	472.4	466.1	461.7	457.6
20°	466.4	467.4	458.5	450.3	445.9
22.5°	462.3	461.4	450.0	438.0	432.0
25°	457.6	455.1	439.6	422.5	413.7
27.5°	453.2	447.8	427.0	403.9	394.8
30°	447.5	440.2	412.1	383.1	370.8
32.5°	441.8	431.1	394.8	359.4	345.8
35°	435.5	420.7	373.3	329.7	314.2
37.5°	427.9	407.7	346.4	297.5	281.1
40°	420.3	392.5	315.8	260.2	245.7
42.5°	413.1	375.5	278.2	218.5	204.3
45°	405.2	353.7	233.7	173.7	161.7
47.5°	396.7	323.7	182.2	131.7	121.6
50°	387.5	284.9	129.2	92.2	84.3
52.5°	376.8	231.2	85.3	62.2	57.2
55°	365.1	167.7	55.6	43.3	40.4
57.5°	350.2	109.3	39.2	32.2	30.0
60°	333.8	65.4	29.7	25.6	24.0
62.5°	312.6	42.3	24.0	21.5	19.6
65°	282.6	31.3	20.2	18.0	16.7
67.5°	244.7	25.9	17.1	15.5	14.2
70°	198.0	22.7	14.8	13.6	12.6
72.5°	149.7	19.9	12.9	12.0	11.4
75°	105.5	17.4	11.4	11.1	10.4
77.5°	69.2	15.2	10.4	10.1	9.8
80°	41.7	12.9	9.2	9.2	8.8
82.5°	23.4	11.4	8.2	8.2	7.6
85°	9.8	9.8	6.9	6.9	6.6
87.5°	2.8	7.6	5.7	5.7	5.1
90°	0.0	5.7	4.4	4.4	4.1
92.5°	0.0	3.2	3.2	3.5	3.2
95°	0.0	0.6	1.9	2.8	2.5
97.5°	0.0	0.3	1.3	2.2	1.9
100°	0.0	0.0	0.6	1.6	1.3
102.5°	0.0	0.0	0.3	0.9	0.9
105°	0.0	0.0	0.3	0.6	0.3
107.5°	0.0	0.0	0.3	0.3	0.3
110°	0.0	0.0	0.3	0.3	0.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.3	0.3	0.3
115°	0.0	0.0	0.0	0.3	0.3
117.5°	0.0	0.0	0.0	0.3	0.0
120°	0.0	0.0	0.0	0.3	0.0
122.5°	0.0	0.0	0.0	0.3	0.0
125°	0.0	0.0	0.3	0.3	0.0
127.5°	0.0	0.0	0.3	0.3	0.3
130°	0.0	0.0	0.3	0.3	0.3
132.5°	0.3	0.0	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	0.6	0.3
157.5°	0.3	0.3	0.3	0.6	0.3
160°	0.3	0.3	0.3	0.6	0.3
162.5°	0.3	0.3	0.6	0.6	0.6
165°	0.3	0.3	0.6	0.6	0.6
167.5°	0.3	0.3	0.6	0.6	0.6
170°	0.3	0.3	0.6	0.6	0.6
172.5°	0.3	0.3	0.6	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	19.56	18.51	19.88	20.20	7.26	8.67	7.63	8.99	9.32
	3H	20.92	22.18	21.31	22.51	22.89	8.27	9.52	8.65	9.86	10.23
	4H	21.75	22.93	22.16	23.28	23.67	8.82	10.00	9.23	10.35	10.74
	6H	22.15	23.23	22.57	23.60	24.01	9.52	10.60	9.94	10.98	11.38
	8H	22.22	23.25	22.66	23.65	24.06	9.89	10.92	10.33	11.32	11.73
	12H	22.24	23.22	22.68	23.61	24.05	10.31	11.29	10.75	11.68	12.12
4H	2H	17.96	19.14	18.37	19.49	19.88	7.69	8.87	8.10	9.22	9.61
	3H	20.75	21.72	21.17	22.13	22.54	8.97	9.93	9.39	10.34	10.75
	4H	21.59	22.45	22.03	22.88	23.33	9.71	10.57	10.15	10.99	11.44
	6H	22.06	22.81	22.53	23.26	23.73	10.62	11.37	11.09	11.82	12.29
	8H	22.17	22.87	22.65	23.32	23.80	11.10	11.80	11.58	12.25	12.73
	12H	22.23	22.85	22.72	23.33	23.81	11.65	12.27	12.14	12.75	13.24
8H	4H	21.48	22.18	21.95	22.63	23.11	10.15	10.84	10.62	11.30	11.77
	6H	21.96	22.53	22.46	23.03	23.52	11.26	11.84	11.77	12.34	12.83
	8H	22.09	22.61	22.61	23.13	23.62	11.91	12.43	12.43	12.94	13.44
	12H	22.18	22.65	22.70	23.14	23.72	12.64	13.10	13.16	13.60	14.18
12H	4H	21.44	22.07	21.94	22.55	23.03	10.31	10.93	10.80	11.42	11.90
	6H	21.91	22.42	22.43	22.94	23.44	11.48	12.00	12.00	12.52	13.01
	8H	22.07	22.53	22.58	23.03	23.60	12.21	12.67	12.73	13.17	13.75