

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: P895773

Luminaire Tested: 2MB-SC3-ACL-UNV-CC83-HI-3500K

Issue Date: 11/19/2024

**Test Information**

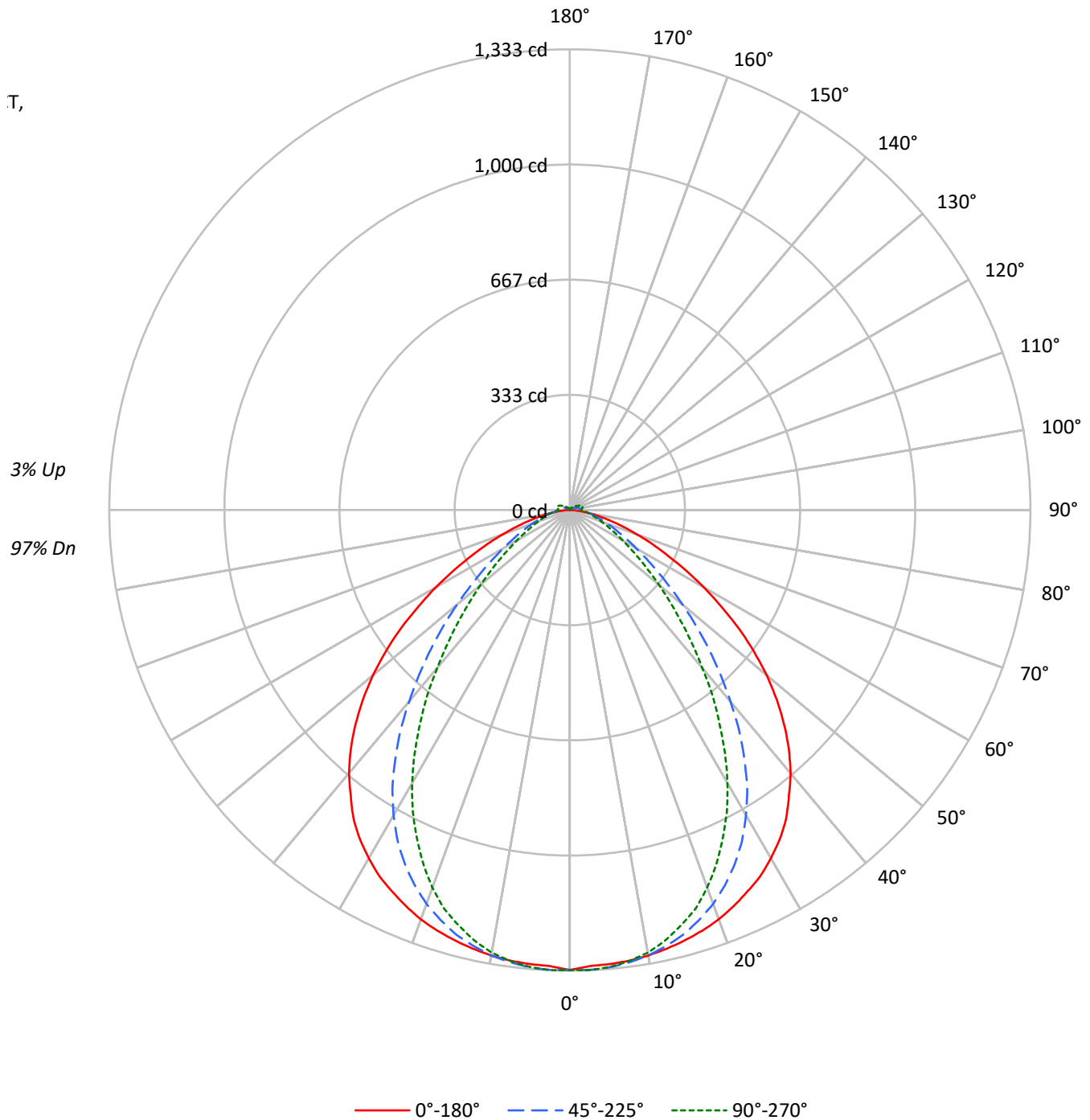
Test Method: LM-79-2019  
Report Number: P895773  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/19/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-SC3-ACL-UNV-CC83-HI-3500K  
Description: Selectable 2FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS, 80CRI, 3500K CC  
HI lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2773.0 lumens  
Efficiency: N/A  
Efficacy: 132.0 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°	27250	27250	27250
5°	27010	26711	26552
10°	27015	26059	25626
15°	27014	25250	24325
20°	27050	24211	22736
25°	26976	22842	20643
30°	26855	21055	18274
35°	26496	18721	15485
40°	25669	15969	12621
45°	24373	13143	10002
50°	22556	10446	7805
55°	20084	8121	6043
60°	17108	6341	4734
65°	13981	5039	3763
70°	11092	4079	3087
75°	8567	3322	2701
80°	6092	2799	2445
85°	3490	2437	2204

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 24373 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.1	4.5
10°-20°	357.7	12.9
20°-30°	519.8	18.7
30°-40°	561.9	20.3
40°-50°	474.0	17.1
50°-60°	324.8	11.7
60°-70°	189.4	6.8
70°-80°	96.7	3.5
80°-90°	41.7	1.5
90°-100°	25.3	0.9
100°-110°	22.6	0.8
110°-120°	15.4	0.6
120°-130°	8.6	0.3
130°-140°	4.7	0.2
140°-150°	2.5	0.1
150°-160°	1.3	0.0
160°-170°	0.5	0.0
170°-180°	0.1	0.0
0°-30°	1003.5	36.2
0°-40°	1565.4	56.5
0°-60°	2364.2	85.3
0°-90°	2692.0	97.1
90°-120°	63.3	2.3
90°-150°	79.1	2.9
90°-180°	81.0	2.9
0°-180°	2773.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1331	1331	1331	1331	1331	
5°	1319	1327	1328	1331	1327	126
15°	1289	1288	1271	1256	1244	364
25°	1217	1194	1130	1074	1047	562
35°	1091	1021	881	787	756	680
45°	877	742	568	480	454	674
55°	596	452	309	259	245	532
65°	315	231	160	136	130	316
75°	125	102	81	76	74	136
85°	22	30	40	43	43	27
90°	1	14	29	33	33	1
95°	0	13	28	34	35	0
105°	0	7	25	36	38	0
115°	0	5	16	26	30	0
125°	0	3	9	16	18	0
135°	1	3	6	9	11	1
145°	1	2	5	6	6	1
155°	1	2	3	4	5	0
165°	1	1	2	3	3	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°	1330.8	1330.8	1330.8	1330.8	1330.8
2.5°	1320.8	1329.0	1331.7	1335.4	1332.6
5°	1318.9	1327.2	1328.1	1330.8	1327.2
7.5°	1315.3	1321.7	1319.8	1319.8	1316.2
10°	1308.9	1312.5	1308.9	1304.3	1300.6
12.5°	1299.7	1302.5	1291.5	1285.1	1275.9
15°	1288.7	1287.8	1271.4	1255.8	1243.9
17.5°	1275.9	1269.5	1243.9	1220.1	1210.1
20°	1260.4	1248.5	1212.8	1178.1	1162.5
22.5°	1240.3	1223.8	1174.4	1129.6	1108.6
25°	1217.4	1193.6	1129.6	1073.8	1047.3
27.5°	1194.5	1158.9	1079.3	1009.8	984.2
30°	1163.4	1118.6	1019.8	941.2	912.8
32.5°	1130.5	1073.8	955.8	864.3	836.0
35°	1091.2	1020.7	880.8	786.6	755.5
37.5°	1041.8	958.6	804.9	706.1	679.6
40°	994.2	890.9	723.5	625.6	596.4
42.5°	938.4	817.7	644.8	549.7	523.2
45°	877.1	741.8	568.0	480.2	453.7
47.5°	812.2	669.5	494.8	413.4	392.4
50°	743.6	595.4	426.2	355.8	336.6
52.5°	670.4	521.4	363.1	304.6	287.2
55°	596.4	451.8	309.2	258.8	245.1
57.5°	518.6	385.1	263.4	220.4	207.6
60°	448.2	329.3	222.3	188.4	178.4
62.5°	378.7	278.1	189.3	160.1	151.8
65°	314.6	231.4	160.1	136.3	129.9
67.5°	258.8	193.9	137.2	117.1	112.5
70°	206.7	158.2	115.2	100.6	96.0
72.5°	162.8	128.1	97.0	86.9	84.1
75°	125.3	102.4	81.4	75.9	74.1
77.5°	91.5	78.7	68.6	65.9	64.9
80°	64.0	59.5	57.6	57.6	57.6
82.5°	40.2	43.9	48.5	50.3	50.3
85°	22.0	30.2	40.2	43.0	43.0
87.5°	9.1	21.0	33.8	36.6	35.7
90°	0.9	13.7	29.3	32.9	32.9
92.5°	0.0	13.7	29.3	32.9	32.9
95°	0.0	12.8	28.4	33.8	34.8
97.5°	0.0	11.9	28.4	34.8	35.7
100°	0.9	11.0	28.4	35.7	36.6
102.5°	0.0	9.1	26.5	35.7	37.5
105°	0.0	7.3	24.7	35.7	37.5
107.5°	0.0	5.5	22.9	33.8	36.6
110°	0.0	5.5	21.0	32.0	34.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	4.6	18.3	29.3	32.9
115°	0.0	4.6	15.5	26.5	30.2
117.5°	0.0	3.7	13.7	23.8	26.5
120°	0.0	3.7	11.9	21.0	23.8
122.5°	0.0	3.7	11.0	18.3	21.0
125°	0.0	2.7	9.1	15.5	18.3
127.5°	0.9	2.7	8.2	13.7	16.5
130°	0.9	2.7	7.3	11.9	14.6
132.5°	0.9	2.7	6.4	11.0	12.8
135°	0.9	2.7	6.4	9.1	11.0
137.5°	0.9	2.7	5.5	8.2	9.1
140°	0.9	2.7	4.6	7.3	8.2
142.5°	0.9	1.8	4.6	6.4	7.3
145°	0.9	1.8	4.6	5.5	6.4
147.5°	0.9	1.8	3.7	5.5	5.5
150°	0.9	1.8	3.7	4.6	5.5
152.5°	0.9	1.8	2.7	4.6	4.6
155°	0.9	1.8	2.7	3.7	4.6
157.5°	0.9	1.8	2.7	3.7	3.7
160°	0.9	1.8	1.8	2.7	3.7
162.5°	0.9	0.9	1.8	2.7	2.7
165°	0.9	0.9	1.8	2.7	2.7
167.5°	0.9	0.9	1.8	1.8	2.7
170°	0.9	0.9	1.8	1.8	1.8
172.5°	0.9	0.9	1.8	1.8	0.9
175°	0.9	0.9	1.8	1.8	0.9
177.5°	0.9	0.9	1.8	0.9	0.9
180°	0.9	0.9	0.9	0.9	0.9



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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	20.02	21.42	20.43	21.79	22.18	16.34	17.74	16.75	18.12	18.51
	3H	21.08	22.33	21.51	22.73	23.16	17.52	18.77	17.95	19.16	19.60
	4H	21.37	22.55	21.82	22.96	23.41	18.04	19.22	18.49	19.63	20.08
	6H	21.51	22.59	21.97	23.02	23.48	18.58	19.66	19.04	20.09	20.56
	8H	21.52	22.55	22.00	23.00	23.47	18.86	19.89	19.34	20.34	20.81
	12H	21.51	22.49	21.99	22.93	23.44	19.15	20.14	19.63	20.58	21.08
4H	2H	20.05	21.22	20.50	21.63	22.08	16.80	17.97	17.25	18.38	18.83
	3H	21.27	22.24	21.73	22.70	23.17	18.16	19.13	18.62	19.59	20.06
	4H	21.65	22.52	22.13	22.99	23.50	18.79	19.66	19.27	20.14	20.65
	6H	21.87	22.63	22.38	23.13	23.66	19.46	20.22	19.97	20.72	21.25
	8H	21.90	22.61	22.42	23.11	23.65	19.81	20.52	20.32	21.02	21.55
	12H	21.91	22.54	22.44	23.07	23.61	20.18	20.82	20.72	21.35	21.89
8H	4H	21.67	22.38	22.18	22.88	23.41	19.01	19.72	19.52	20.22	20.75
	6H	21.94	22.53	22.49	23.08	23.62	19.79	20.38	20.34	20.93	21.47
	8H	22.01	22.54	22.57	23.10	23.66	20.23	20.76	20.79	21.32	21.88
	12H	22.05	22.52	22.61	23.06	23.69	20.73	21.20	21.29	21.75	22.38
12H	4H	21.65	22.29	22.19	22.82	23.36	19.02	19.65	19.55	20.18	20.72
	6H	21.94	22.47	22.50	23.03	23.58	19.82	20.35	20.39	20.91	21.47
	8H	22.04	22.51	22.60	23.05	23.69	20.32	20.79	20.88	21.33	21.96