

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: P892885

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

Issue Date: 11/11/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P892885  
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-HI-3500K  
Description: Selectable 2FT MICROBAY LINEAR BAY with AISLE OPTIC, 80CRI, 3500K CCT, HI lumen setting  
Light Source: -  
Ballast/Driver: -

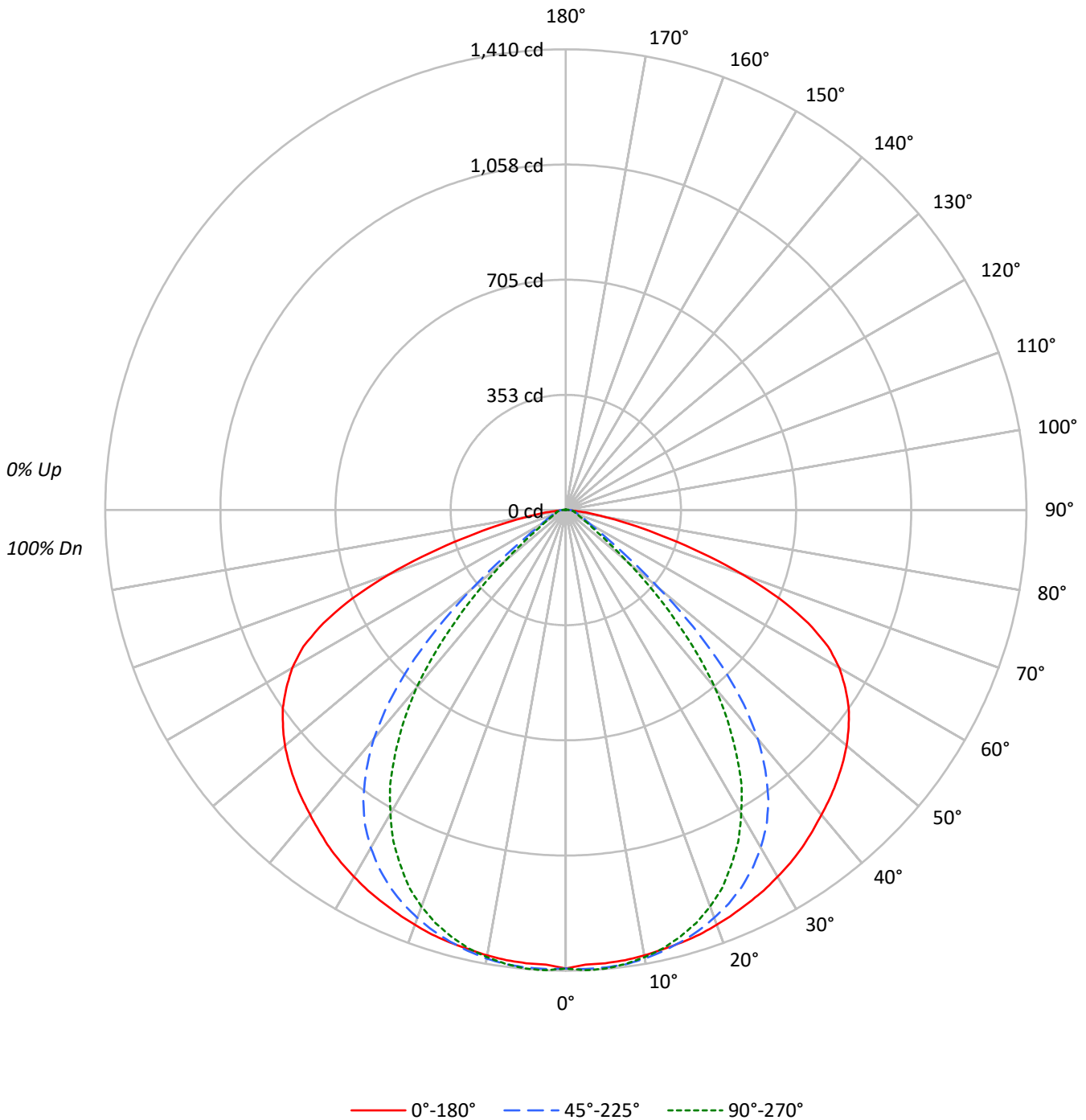
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2942.9 lumens  
Efficiency: N/A  
Efficacy: 140.1 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): 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	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°	28735	28735	28735
5°	28618	28881	28957
10°	28779	28987	28891
15°	29049	28992	28661
20°	29441	28944	28147
25°	29947	28770	27076
30°	30648	28226	25392
35°	31534	27029	22752
40°	32547	24453	19024
45°	33988	19602	13564
50°	35755	11917	7779
55°	37752	5748	4180
60°	39597	3522	2846
65°	39667	2834	2350
70°	34341	2574	2191
75°	24170	2603	2389
80°	14245	3125	3019
85°	6672	4722	4511

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 62.5°  
 Luminance: 40159 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.7	4.5
10°-20°	385.8	13.1
20°-30°	584.0	19.8
30°-40°	674.4	22.9
40°-50°	576.7	19.6
50°-60°	315.0	10.7
60°-70°	159.1	5.4
70°-80°	77.2	2.6
80°-90°	26.6	0.9
90°-100°	6.4	0.2
100°-110°	1.0	0.0
110°-120°	0.4	0.0
120°-130°	0.4	0.0
130°-140°	0.6	0.0
140°-150°	0.6	0.0
150°-160°	0.5	0.0
160°-170°	0.4	0.0
170°-180°	0.1	0.0
0°-30°	1103.5	37.5
0°-40°	1777.9	60.4
0°-60°	2669.6	90.7
0°-90°	2932.5	99.6
90°-120°	7.8	0.3
90°-150°	9.4	0.3
90°-180°	10.0	0.3
0°-180°	2942.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1403	1403	1403	1403	1403	
5°	1392	1403	1405	1411	1409	133
15°	1370	1379	1368	1361	1352	388
25°	1326	1318	1273	1224	1198	613
35°	1262	1218	1081	955	910	790
45°	1174	1024	677	503	468	907
55°	1058	486	161	125	117	942
65°	819	91	58	52	48	793
75°	306	50	33	32	30	338
85°	28	28	20	20	19	44
90°	0	16	13	13	12	1
95°	0	2	6	8	7	0
105°	0	0	1	2	1	0
115°	0	0	0	1	1	0
125°	0	0	1	1	0	0
135°	1	1	1	1	1	1
145°	1	1	1	1	1	1
155°	1	1	1	2	1	0
165°	1	1	2	2	2	0
175°	1	1	2	2	2	0
180°	2	2	2	2	2	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1403.3	1403.3	1403.3	1403.3	1403.3
2.5°	1392.3	1402.4	1406.0	1412.4	1409.7
5°	1392.3	1403.3	1405.1	1410.6	1408.8
7.5°	1389.5	1399.6	1402.4	1405.1	1401.4
10°	1384.1	1394.1	1394.1	1394.1	1389.5
12.5°	1376.7	1387.7	1382.2	1378.6	1374.0
15°	1370.3	1378.6	1367.6	1361.2	1352.0
17.5°	1362.1	1368.5	1350.2	1337.4	1325.5
20°	1351.1	1353.9	1328.3	1304.5	1291.7
22.5°	1339.2	1336.5	1303.6	1268.8	1251.4
25°	1325.5	1318.2	1273.4	1224.0	1198.4
27.5°	1312.7	1297.2	1236.8	1170.0	1143.5
30°	1296.2	1275.2	1193.8	1109.6	1073.9
32.5°	1279.8	1248.7	1143.5	1041.0	1001.7
35°	1261.5	1218.5	1081.3	955.0	910.2
37.5°	1239.5	1181.0	1003.5	861.7	814.2
40°	1217.6	1137.1	914.8	753.8	711.7
42.5°	1196.5	1087.7	805.9	633.0	591.9
45°	1173.7	1024.5	676.9	503.1	468.4
47.5°	1149.0	937.6	527.8	381.5	352.2
50°	1122.4	825.1	374.1	267.1	244.2
52.5°	1091.3	669.6	247.0	180.2	165.6
55°	1057.5	485.7	161.0	125.3	117.1
57.5°	1014.5	316.5	113.4	93.3	86.9
60°	966.9	189.4	86.0	74.1	69.5
62.5°	905.6	122.6	69.5	62.2	56.7
65°	818.7	90.6	58.5	52.1	48.5
67.5°	709.0	75.0	49.4	44.8	41.2
70°	573.6	65.9	43.0	39.3	36.6
72.5°	433.6	57.6	37.5	34.8	32.9
75°	305.5	50.3	32.9	32.0	30.2
77.5°	200.3	43.9	30.2	29.3	28.4
80°	120.8	37.5	26.5	26.5	25.6
82.5°	67.7	32.9	23.8	23.8	22.0
85°	28.4	28.4	20.1	20.1	19.2
87.5°	8.2	22.0	16.5	16.5	14.6
90°	0.0	16.5	12.8	12.8	11.9
92.5°	0.0	9.1	9.1	10.1	9.1
95°	0.0	1.8	5.5	8.2	7.3
97.5°	0.0	0.9	3.7	6.4	5.5
100°	0.0	0.0	1.8	4.6	3.7
102.5°	0.0	0.0	0.9	2.7	2.7
105°	0.0	0.0	0.9	1.8	0.9
107.5°	0.0	0.0	0.9	0.9	0.9
110°	0.0	0.0	0.9	0.9	0.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.9	0.9	0.9
115°	0.0	0.0	0.0	0.9	0.9
117.5°	0.0	0.0	0.0	0.9	0.0
120°	0.0	0.0	0.0	0.9	0.0
122.5°	0.0	0.0	0.0	0.9	0.0
125°	0.0	0.0	0.9	0.9	0.0
127.5°	0.0	0.0	0.9	0.9	0.9
130°	0.0	0.0	0.9	0.9	0.9
132.5°	0.9	0.0	0.9	0.9	0.9
135°	0.9	0.9	0.9	0.9	0.9
137.5°	0.9	0.9	0.9	0.9	0.9
140°	0.9	0.9	0.9	0.9	0.9
142.5°	0.9	0.9	0.9	0.9	0.9
145°	0.9	0.9	0.9	0.9	0.9
147.5°	0.9	0.9	0.9	0.9	0.9
150°	0.9	0.9	0.9	0.9	0.9
152.5°	0.9	0.9	0.9	0.9	0.9
155°	0.9	0.9	0.9	1.8	0.9
157.5°	0.9	0.9	0.9	1.8	0.9
160°	0.9	0.9	0.9	1.8	0.9
162.5°	0.9	0.9	1.8	1.8	1.8
165°	0.9	0.9	1.8	1.8	1.8
167.5°	0.9	0.9	1.8	1.8	1.8
170°	0.9	0.9	1.8	1.8	1.8
172.5°	0.9	0.9	1.8	1.8	1.8
175°	0.9	0.9	1.8	1.8	1.8
177.5°	0.9	0.9	1.8	1.8	1.8
180°	1.8	1.8	1.8	1.8	1.8



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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	21.84	23.25	22.21	23.57	23.89	10.96	12.37	11.33	12.69	13.01
	3H	24.62	25.87	25.00	26.21	26.58	11.96	13.22	12.35	13.55	13.93
	4H	25.45	26.62	25.86	26.98	27.37	12.52	13.69	12.92	14.05	14.44
	6H	25.84	26.92	26.26	27.30	27.70	13.22	14.30	13.64	14.67	15.08
	8H	25.92	26.94	26.35	27.34	27.75	13.59	14.62	14.03	15.01	15.43
	12H	25.93	26.92	26.37	27.31	27.74	14.01	14.99	14.45	15.38	15.82
4H	2H	21.66	22.83	22.06	23.19	23.58	11.39	12.56	11.80	12.92	13.31
	3H	24.45	25.41	24.87	25.82	26.23	12.66	13.63	13.08	14.04	14.45
	4H	25.28	26.15	25.72	26.57	27.02	13.40	14.26	13.84	14.69	15.14
	6H	25.76	26.50	26.22	26.95	27.43	14.31	15.06	14.78	15.51	15.98
	8H	25.87	26.56	26.34	27.02	27.50	14.80	15.50	15.27	15.95	16.43
	12H	25.92	26.54	26.41	27.03	27.51	15.34	15.96	15.83	16.45	16.93
8H	4H	25.18	25.87	25.65	26.33	26.80	13.84	14.54	14.31	14.99	15.47
	6H	25.65	26.23	26.16	26.73	27.21	14.96	15.53	15.46	16.03	16.52
	8H	25.78	26.30	26.31	26.82	27.32	15.60	16.12	16.12	16.64	17.14
	12H	25.88	26.34	26.40	26.84	27.41	16.34	16.80	16.86	17.30	17.88
12H	4H	25.14	25.76	25.63	26.25	26.73	14.00	14.62	14.49	15.11	15.59
	6H	25.60	26.12	26.12	26.64	27.14	15.17	15.69	15.69	16.21	16.71
	8H	25.76	26.22	26.28	26.72	27.30	15.91	16.37	16.43	16.87	17.44