

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: P892597

Luminaire Tested: 2MB-3SL-AOL-UNV-L830

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892597
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-3SL-AOL-UNV-L830
Description: 3000 Lumen 2FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS NO UPLIGHT, 8
3000K CCT
Light Source: -
Ballast/Driver: -

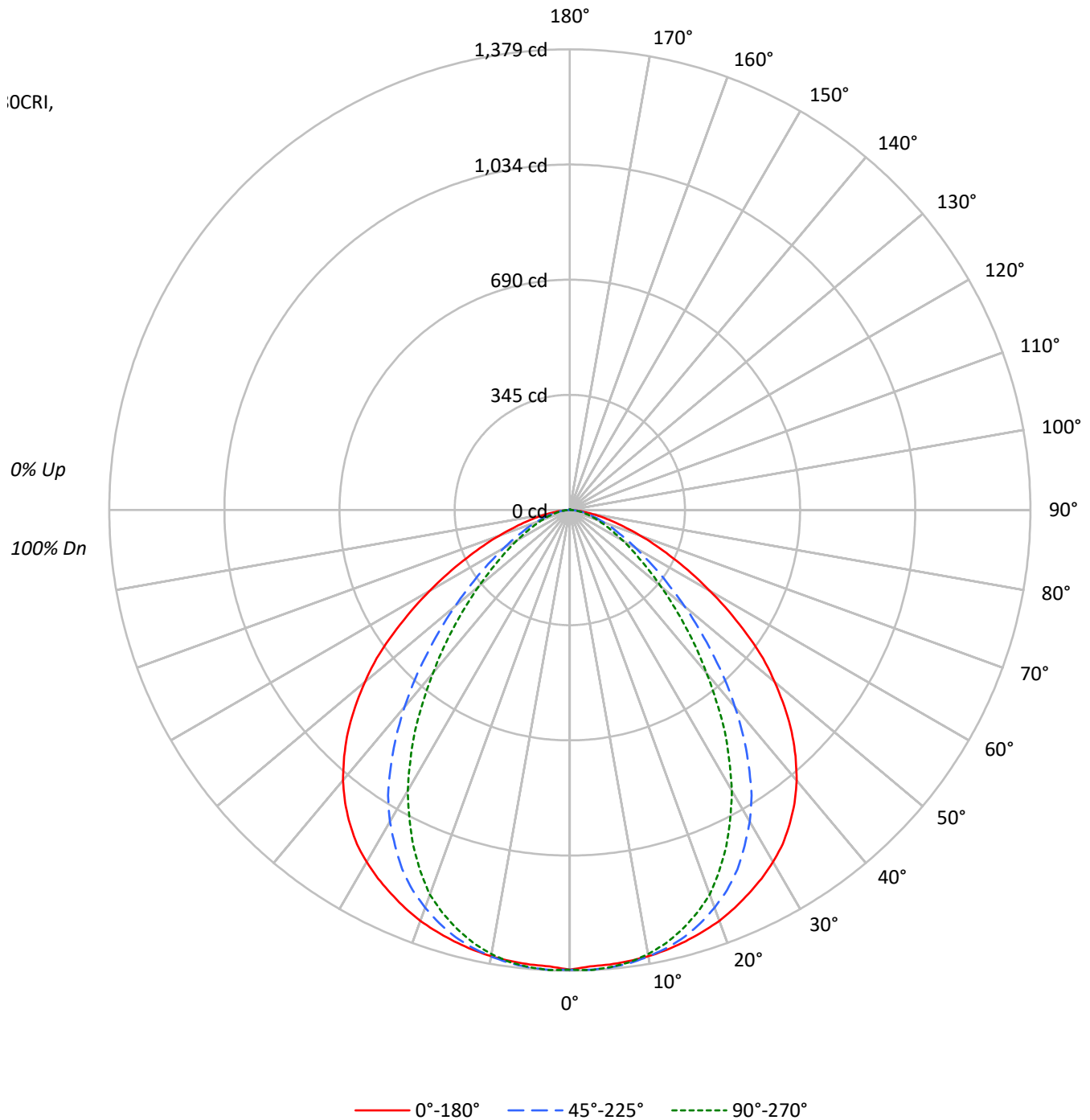
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2805.0 lumens
Efficiency: N/A
Efficacy: 133.6 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): 21
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 8
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°	28172	28172	28172
5°	28070	28261	28240
10°	28201	28219	28066
15°	28336	28061	27548
20°	28520	27609	26696
25°	28626	26818	25051
30°	28768	25470	22940
35°	28694	23345	20230
40°	28246	20564	17008
45°	27206	17375	14033
50°	25513	14284	11318
55°	23048	11588	9100
60°	19846	9333	7544
65°	16498	7709	6265
70°	13530	6460	5346
75°	10744	5522	4636
80°	8113	4717	4163
85°	5474	4370	3924

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 27206 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.6	4.7
10°-20°	372.4	13.3
20°-30°	545.4	19.4
30°-40°	595.1	21.2
40°-50°	504.6	18.0
50°-60°	343.0	12.2
60°-70°	193.7	6.9
70°-80°	88.4	3.2
80°-90°	23.1	0.8
90°-100°	3.0	0.1
100°-110°	1.8	0.1
110°-120°	1.0	0.0
120°-130°	0.8	0.0
130°-140°	0.7	0.0
140°-150°	0.6	0.0
150°-160°	0.4	0.0
160°-170°	0.4	0.0
170°-180°	0.1	0.0
0°-30°	1048.3	37.4
0°-40°	1643.4	58.6
0°-60°	2491.0	88.8
0°-90°	2796.2	99.7
90°-120°	5.7	0.2
90°-150°	7.8	0.3
90°-180°	9.0	0.3
0°-180°	2805.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1376	1376	1376	1376	1376	
5°	1366	1373	1375	1378	1374	130
15°	1337	1336	1324	1309	1300	378
25°	1267	1246	1187	1133	1109	585
35°	1148	1074	934	836	809	717
45°	940	794	600	510	485	721
55°	646	477	325	270	255	576
65°	340	242	159	136	129	343
75°	136	100	70	61	59	147
85°	23	21	19	18	17	29
90°	0	3	4	5	5	1
95°	0	1	3	5	5	0
105°	0	1	2	3	3	0
115°	0	0	1	2	2	0
125°	0	0	1	2	2	0
135°	1	1	1	1	1	1
145°	1	1	1	1	1	1
155°	1	1	1	1	1	0
165°	1	1	1	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°	1375.8	1375.8	1375.8	1375.8	1375.8
2.5°	1367.4	1374.9	1377.7	1381.4	1378.6
5°	1365.6	1373.0	1374.9	1377.7	1373.9
7.5°	1361.9	1368.4	1368.4	1368.4	1365.6
10°	1356.3	1360.9	1357.2	1353.5	1349.8
12.5°	1347.9	1349.8	1342.3	1335.8	1328.4
15°	1336.7	1335.8	1323.7	1308.8	1299.5
17.5°	1323.7	1320.0	1297.7	1278.1	1265.1
20°	1308.8	1299.5	1267.0	1236.3	1225.1
22.5°	1289.3	1276.3	1230.7	1187.9	1169.3
25°	1267.0	1245.6	1187.0	1133.0	1108.8
27.5°	1243.7	1212.1	1133.0	1066.0	1040.0
30°	1216.7	1173.0	1077.2	1000.0	970.2
32.5°	1186.0	1130.2	1013.0	920.0	888.4
35°	1147.9	1074.4	933.9	836.3	809.3
37.5°	1105.1	1014.9	853.9	752.6	720.0
40°	1056.7	947.0	769.3	667.9	636.3
42.5°	1000.0	874.4	685.6	587.0	560.0
45°	939.5	793.5	600.0	509.8	484.6
47.5°	871.6	713.5	521.9	436.3	416.7
50°	800.9	633.5	448.4	374.9	355.3
52.5°	729.3	553.5	380.5	318.1	301.4
55°	645.6	477.2	324.6	269.8	254.9
57.5°	563.7	409.3	271.6	226.0	216.7
60°	484.6	344.2	227.9	190.7	184.2
62.5°	411.2	288.4	191.6	160.9	152.6
65°	340.5	241.9	159.1	135.8	129.3
67.5°	280.0	197.2	133.0	112.6	107.0
70°	226.0	159.1	107.9	92.1	89.3
72.5°	175.8	127.4	88.4	76.3	73.5
75°	135.8	99.5	69.8	61.4	58.6
77.5°	99.5	74.4	54.0	47.4	45.6
80°	68.8	53.0	40.0	36.3	35.3
82.5°	43.7	34.4	28.8	26.0	26.0
85°	23.3	21.4	18.6	17.7	16.7
87.5°	9.3	10.2	10.2	10.2	9.3
90°	0.0	2.8	3.7	4.7	4.7
92.5°	0.0	1.9	3.7	4.7	4.7
95°	0.0	0.9	2.8	4.7	4.7
97.5°	0.0	0.9	2.8	3.7	3.7
100°	0.0	0.9	1.9	3.7	3.7
102.5°	0.0	0.9	1.9	2.8	3.7
105°	0.0	0.9	1.9	2.8	2.8
107.5°	0.0	0.0	1.9	2.8	2.8
110°	0.0	0.0	0.9	1.9	2.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.9	1.9	2.8
115°	0.0	0.0	0.9	1.9	1.9
117.5°	0.0	0.0	0.9	1.9	1.9
120°	0.0	0.0	0.9	1.9	1.9
122.5°	0.0	0.0	0.9	1.9	1.9
125°	0.0	0.0	0.9	1.9	1.9
127.5°	0.0	0.9	0.9	0.9	1.9
130°	0.0	0.9	0.9	0.9	1.9
132.5°	0.9	0.9	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	0.9	0.9
157.5°	0.9	0.9	0.9	0.9	0.9
160°	0.9	0.9	0.9	0.9	1.9
162.5°	0.9	0.9	0.9	1.9	1.9
165°	0.9	0.9	0.9	1.9	1.9
167.5°	0.9	0.9	0.9	1.9	1.9
170°	0.9	0.9	0.9	1.9	1.9
172.5°	0.9	0.9	0.9	1.9	1.9
175°	0.9	0.9	1.9	1.9	1.9
177.5°	0.9	0.9	1.9	1.9	1.9
180°	1.9	1.9	1.9	1.9	1.9



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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	21.93	23.38	22.30	23.70	24.02	17.30	18.74	17.67	19.06	19.38
	3H	23.19	24.47	23.57	24.81	25.18	18.34	19.62	18.72	19.96	20.33
	4H	23.59	24.79	23.99	25.15	25.53	18.71	19.91	19.11	20.27	20.65
	6H	23.82	24.93	24.24	25.31	25.71	18.97	20.08	19.39	20.45	20.85
	8H	23.88	24.93	24.31	25.33	25.74	19.06	20.11	19.49	20.51	20.92
	12H	23.90	24.91	24.33	25.30	25.73	19.12	20.13	19.56	20.52	20.96
4H	2H	21.95	23.15	22.35	23.51	23.90	17.87	19.07	18.28	19.43	19.82
	3H	23.36	24.35	23.77	24.76	25.17	19.10	20.09	19.51	20.50	20.91
	4H	23.85	24.74	24.29	25.16	25.61	19.56	20.45	20.00	20.87	21.32
	6H	24.19	24.96	24.66	25.41	25.88	19.91	20.68	20.38	21.13	21.60
	8H	24.28	25.00	24.75	25.45	25.92	20.04	20.76	20.51	21.21	21.68
	12H	24.32	24.96	24.81	25.45	25.93	20.14	20.78	20.63	21.26	21.74
8H	4H	23.84	24.56	24.31	25.01	25.49	19.85	20.57	20.32	21.02	21.49
	6H	24.23	24.82	24.74	25.32	25.81	20.29	20.88	20.80	21.38	21.87
	8H	24.35	24.89	24.88	25.40	25.90	20.47	21.00	20.99	21.52	22.02
	12H	24.45	24.92	24.96	25.42	25.99	20.64	21.11	21.15	21.61	22.18
12H	4H	23.82	24.46	24.30	24.94	25.42	19.88	20.52	20.37	21.00	21.48
	6H	24.20	24.74	24.73	25.25	25.75	20.34	20.88	20.86	21.39	21.89
	8H	24.36	24.83	24.88	25.33	25.90	20.57	21.04	21.09	21.54	22.12