

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: P892598

Luminaire Tested: 2MB-3SL-AOL-UNV-L835

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892598
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-L835
Description: 3000 Lumen 2FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS NO UPLIGHT, 8
3500K CCT
Light Source: -
Ballast/Driver: -

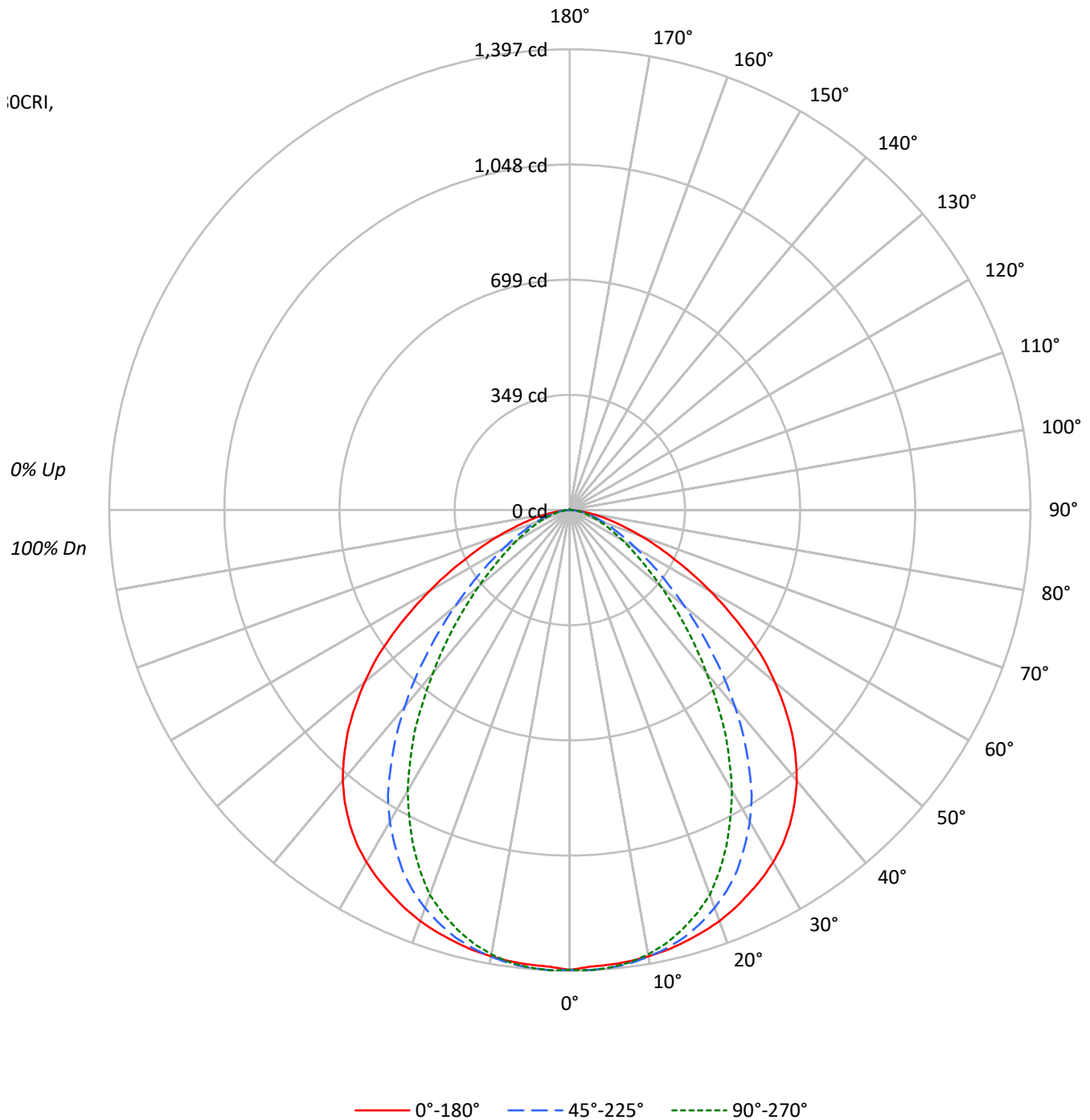
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2842.9 lumens
Efficiency: N/A
Efficacy: 135.4 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): 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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	
1	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87	87	
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76	76	
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66	66	
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58	58	
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	52	52	
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	52	48	46	46	
7	70	58	50	44	69	57	49	44	56	49	44	54	48	43	53	47	43	41	41	
8	66	53	45	40	64	52	45	40	51	44	40	50	44	39	49	43	39	37	37	
9	62	49	42	36	60	49	41	36	47	41	36	46	40	36	45	40	36	34	34	
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31	31	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	28552	28552	28552
5°	28450	28643	28624
10°	28581	28602	28444
15°	28720	28440	27921
20°	28907	27981	27057
25°	29012	27182	25393
30°	29158	25815	23252
35°	29084	23662	20505
40°	28631	20842	17238
45°	27577	17609	14224
50°	25861	14475	11474
55°	23358	11745	9221
60°	20116	9460	7646
65°	16721	7810	6352
70°	13716	6550	5418
75°	10894	5593	4699
80°	8231	4776	4222
85°	5545	4440	3994

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 27577 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.3	4.7
10°-20°	377.4	13.3
20°-30°	552.8	19.4
30°-40°	603.2	21.2
40°-50°	511.4	18.0
50°-60°	347.6	12.2
60°-70°	196.4	6.9
70°-80°	89.6	3.2
80°-90°	23.4	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°	1062.5	37.4
0°-40°	1665.7	58.6
0°-60°	2524.7	88.8
0°-90°	2834.1	99.7
90°-120°	5.8	0.2
90°-150°	7.9	0.3
90°-180°	9.0	0.3
0°-180°	2842.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1394	1394	1394	1394	1394	
5°	1384	1392	1394	1396	1393	132
15°	1355	1354	1342	1327	1317	383
25°	1284	1262	1203	1148	1124	593
35°	1164	1089	947	848	820	726
45°	952	804	608	517	491	731
55°	654	484	329	273	258	584
65°	345	245	161	138	131	347
75°	138	101	71	62	59	149
85°	24	22	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°	1394.4	1394.4	1394.4	1394.4	1394.4
2.5°	1386.0	1393.5	1396.3	1400.1	1397.3
5°	1384.1	1391.6	1393.5	1396.3	1392.6
7.5°	1380.3	1386.9	1386.9	1386.9	1384.1
10°	1374.6	1379.4	1375.6	1371.8	1368.0
12.5°	1366.2	1368.0	1360.5	1353.9	1346.4
15°	1354.8	1353.9	1341.6	1326.6	1317.1
17.5°	1341.6	1337.9	1315.2	1295.4	1282.2
20°	1326.6	1317.1	1284.1	1253.0	1241.7
22.5°	1306.8	1293.6	1247.4	1204.0	1185.1
25°	1284.1	1262.4	1203.1	1148.4	1123.9
27.5°	1260.6	1228.5	1148.4	1080.5	1054.1
30°	1233.2	1188.9	1091.8	1013.5	983.4
32.5°	1202.1	1145.5	1026.7	932.5	900.4
35°	1163.5	1089.0	946.6	847.6	820.3
37.5°	1120.1	1028.6	865.5	762.7	729.8
40°	1071.1	959.8	779.7	677.0	644.9
42.5°	1013.5	886.3	694.9	594.9	567.6
45°	952.3	804.2	608.1	516.7	491.2
47.5°	883.4	723.2	528.9	442.2	422.4
50°	811.8	642.1	454.4	380.0	360.2
52.5°	739.2	561.0	385.6	322.4	305.5
55°	654.3	483.7	329.0	273.4	258.3
57.5°	571.4	414.8	275.3	229.1	219.7
60°	491.2	348.8	231.0	193.3	186.7
62.5°	416.7	292.3	194.2	163.1	154.6
65°	345.1	245.1	161.2	137.7	131.1
67.5°	283.8	199.9	134.8	114.1	108.4
70°	229.1	161.2	109.4	93.3	90.5
72.5°	178.2	129.2	89.6	77.3	74.5
75°	137.7	100.9	70.7	62.2	59.4
77.5°	100.9	75.4	54.7	48.1	46.2
80°	69.8	53.7	40.5	36.8	35.8
82.5°	44.3	34.9	29.2	26.4	26.4
85°	23.6	21.7	18.9	17.9	17.0
87.5°	9.4	10.4	10.4	10.4	9.4
90°	0.0	2.8	3.8	4.7	4.7
92.5°	0.0	1.9	3.8	4.7	4.7
95°	0.0	0.9	2.8	4.7	4.7
97.5°	0.0	0.9	2.8	3.8	3.8
100°	0.0	0.9	1.9	3.8	3.8
102.5°	0.0	0.9	1.9	2.8	3.8
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	21.98	23.42	22.35	23.74	24.07	17.34	18.79	17.71	19.11	19.43
	3H	23.23	24.52	23.62	24.86	25.23	18.38	19.67	18.77	20.01	20.38
	4H	23.63	24.84	24.04	25.19	25.58	18.75	19.96	19.16	20.31	20.70
	6H	23.87	24.98	24.29	25.36	25.76	19.01	20.12	19.43	20.50	20.90
	8H	23.93	24.98	24.36	25.38	25.79	19.10	20.16	19.54	20.56	20.97
	12H	23.95	24.95	24.38	25.34	25.78	19.17	20.18	19.61	20.57	21.00
4H	2H	21.99	23.20	22.40	23.56	23.94	17.92	19.12	18.32	19.48	19.87
	3H	23.40	24.39	23.82	24.80	25.21	19.14	20.14	19.56	20.54	20.95
	4H	23.90	24.78	24.33	25.21	25.66	19.60	20.49	20.04	20.92	21.36
	6H	24.24	25.01	24.70	25.46	25.93	19.96	20.73	20.43	21.18	21.65
	8H	24.32	25.04	24.79	25.49	25.97	20.08	20.80	20.56	21.26	21.73
	12H	24.37	25.01	24.86	25.50	25.98	20.18	20.83	20.67	21.31	21.79
8H	4H	23.89	24.61	24.36	25.06	25.53	19.89	20.61	20.36	21.06	21.54
	6H	24.28	24.87	24.78	25.37	25.86	20.34	20.93	20.84	21.43	21.92
	8H	24.40	24.93	24.92	25.45	25.95	20.52	21.05	21.04	21.57	22.07
	12H	24.49	24.96	25.01	25.46	26.04	20.68	21.15	21.20	21.65	22.23
12H	4H	23.86	24.50	24.35	24.99	25.47	19.92	20.56	20.41	21.05	21.53
	6H	24.25	24.78	24.77	25.30	25.80	20.39	20.92	20.91	21.44	21.94
	8H	24.41	24.88	24.92	25.38	25.95	20.62	21.09	21.14	21.59	22.16