

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: P892664

Luminaire Tested: 2MB-3SL-LVRF-UNV-L850

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892664
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-3SL-LVRF-UNV-L850
Description: 3000 Lumen 2FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 80CRI, 5000K C
Light Source: -
Ballast/Driver: -

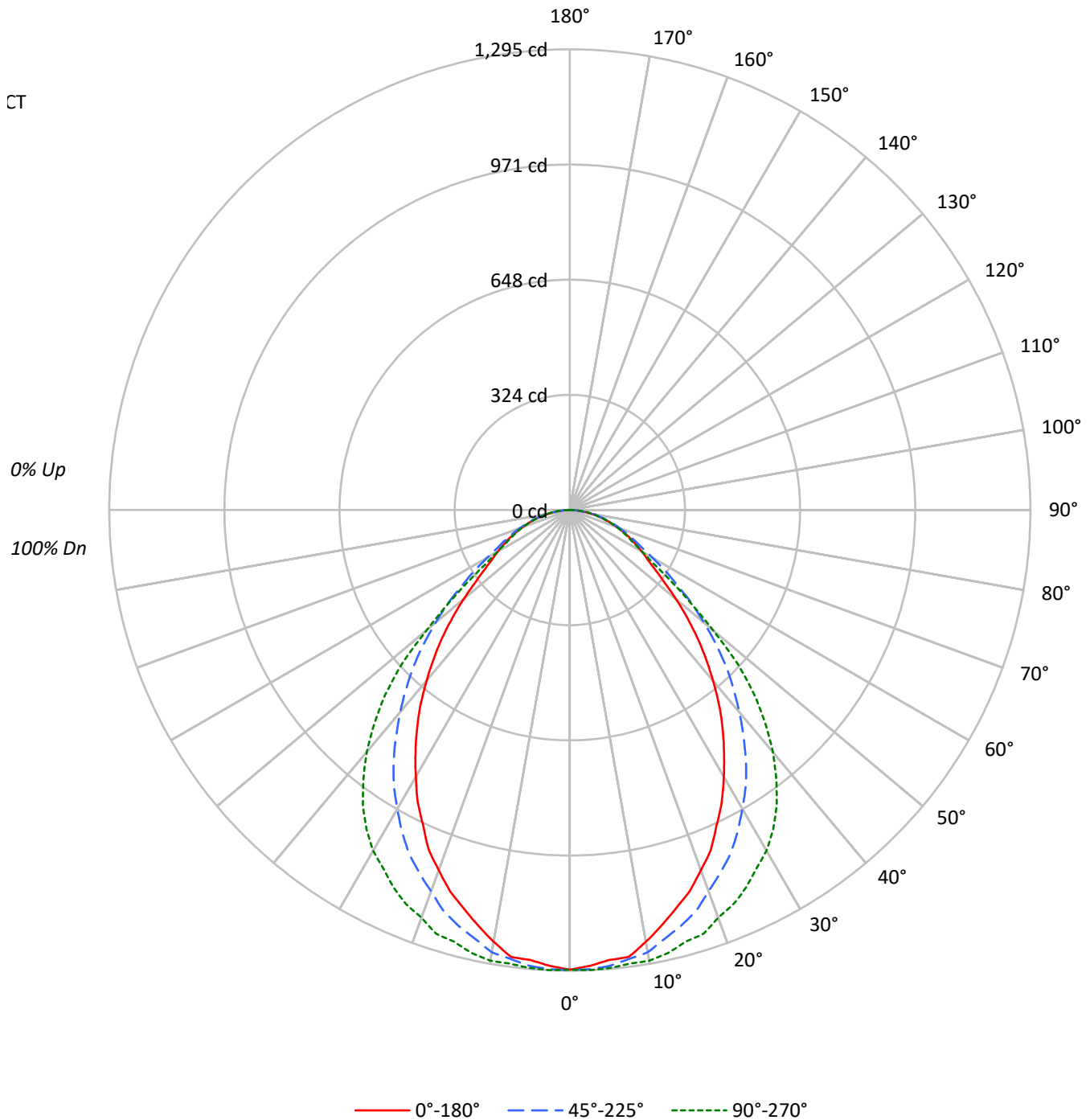
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2619.0 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Spacing Criteria (0/90/45): 1.04 / 1.26 / 1.21
Luminous Opening: Rectangular (W 0.38' 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: 0.998
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	102	102	100
1	110	106	102	99	108	104	100	97	100	97	94	96	94	91	92	90	89	89	89	87
2	102	94	88	83	99	93	87	82	89	84	80	86	82	79	83	80	77	77	77	75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	67	67	65
4	87	76	68	62	84	75	67	62	72	66	61	70	64	60	68	63	59	59	59	57
5	80	69	61	54	78	68	60	54	66	59	54	64	58	53	62	57	53	53	53	51
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	47	47	45
7	70	57	49	43	68	56	49	43	55	48	43	54	47	43	52	47	42	42	42	41
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	38	38	37
9	61	49	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	35	35	33
10	57	45	38	33	56	45	37	33	44	37	32	43	37	32	42	36	32	32	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18486	18486	18486
5°	18230	18470	18556
10°	17904	18338	18684
15°	17140	17917	18607
20°	16399	17363	18564
25°	15420	16853	18493
30°	14303	16020	18268
35°	13077	15080	17708
40°	11686	13851	16592
45°	10245	12563	14835
50°	8664	10950	11669
55°	7328	9203	8550
60°	6698	7688	6732
65°	6347	6750	6103
70°	5944	6245	5843
75°	5544	5875	5610
80°	5116	5511	5413
85°	4514	4908	5876

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 14835 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.9	4.7
10°-20°	341.1	13.0
20°-30°	491.7	18.8
30°-40°	542.4	20.7
40°-50°	474.8	18.1
50°-60°	312.0	11.9
60°-70°	190.6	7.3
70°-80°	110.3	4.2
80°-90°	34.2	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	954.7	36.5
0°-40°	1497.1	57.2
0°-60°	2283.8	87.2
0°-90°	2619.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2619.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1292	1292	1292	1292	1292	
5°	1270	1283	1286	1293	1292	121
15°	1157	1176	1210	1249	1256	326
25°	977	1010	1068	1132	1172	449
35°	749	781	864	959	1014	467
45°	506	537	621	698	733	390
55°	294	309	369	370	343	268
65°	188	188	199	191	180	185
75°	100	100	106	109	102	107
85°	28	28	30	32	36	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1292.2	1292.2	1292.2	1292.2	1292.2
2.5°	1282.7	1289.8	1292.2	1297.0	1294.6
5°	1269.5	1282.7	1286.2	1293.4	1292.2
7.5°	1267.1	1262.4	1273.1	1287.4	1286.2
10°	1232.5	1242.1	1262.4	1283.9	1286.2
12.5°	1195.5	1211.0	1233.7	1270.7	1275.5
15°	1157.3	1176.4	1209.8	1249.2	1256.4
17.5°	1122.6	1141.7	1181.2	1225.3	1249.2
20°	1077.2	1103.5	1140.5	1195.5	1219.4
22.5°	1035.4	1056.9	1104.7	1164.4	1200.3
25°	976.9	1010.4	1067.7	1132.2	1171.6
27.5°	925.6	956.6	1021.1	1092.8	1135.8
30°	865.9	900.5	969.8	1049.8	1105.9
32.5°	807.3	839.6	920.8	1003.2	1064.1
35°	748.8	781.1	863.5	959.0	1014.0
37.5°	689.1	722.5	802.6	900.5	953.0
40°	625.8	664.0	741.7	838.4	888.5
42.5°	566.1	601.9	680.7	775.1	813.3
45°	506.4	537.4	621.0	697.5	733.3
47.5°	446.7	476.5	556.5	619.8	640.1
50°	389.3	416.8	492.0	531.5	524.3
52.5°	335.6	360.7	432.3	447.9	427.6
55°	293.8	309.3	369.0	370.2	342.8
57.5°	259.2	271.1	317.7	305.7	275.9
60°	234.1	237.7	268.7	255.6	235.3
62.5°	209.0	211.4	228.1	218.6	203.0
65°	187.5	187.5	199.4	191.1	180.3
67.5°	163.6	164.8	173.2	168.4	160.0
70°	142.1	142.1	149.3	149.3	139.7
72.5°	120.6	120.6	126.6	127.8	121.8
75°	100.3	100.3	106.3	108.7	101.5
77.5°	81.2	81.2	86.0	89.6	81.2
80°	62.1	62.1	66.9	70.5	65.7
82.5°	44.2	45.4	47.8	51.4	51.4
85°	27.5	27.5	29.9	32.2	35.8
87.5°	11.9	13.1	14.3	15.5	17.9
90°	0.0	0.0	0.0	0.0	0.0



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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	17.55	19.02	17.91	19.34	19.65	18.29	19.77	18.66	20.08	20.40
	3H	19.15	20.47	19.52	20.79	21.16	19.63	20.95	20.01	21.28	21.64
	4H	19.76	21.00	20.16	21.35	21.73	20.21	21.44	20.61	21.79	22.17
	6H	20.24	21.38	20.65	21.75	22.14	20.66	21.80	21.07	22.17	22.56
	8H	20.40	21.48	20.82	21.87	22.28	20.84	21.93	21.27	22.32	22.72
	12H	20.50	21.54	20.93	21.92	22.35	20.99	22.03	21.42	22.42	22.84
4H	2H	18.17	19.41	18.57	19.76	20.14	18.77	20.01	19.17	20.36	20.74
	3H	19.98	21.01	20.39	21.41	21.81	20.38	21.40	20.79	21.80	22.20
	4H	20.72	21.64	21.15	22.05	22.49	21.10	22.03	21.54	22.44	22.88
	6H	21.32	22.12	21.77	22.56	23.02	21.72	22.52	22.17	22.96	23.42
	8H	21.52	22.27	21.98	22.71	23.18	21.95	22.70	22.42	23.15	23.62
	12H	21.67	22.34	22.15	22.82	23.29	22.16	22.83	22.64	23.30	23.78
8H	4H	21.03	21.78	21.49	22.22	22.69	21.37	22.12	21.84	22.57	23.03
	6H	21.75	22.37	22.25	22.86	23.34	22.13	22.75	22.63	23.24	23.72
	8H	22.03	22.59	22.55	23.10	23.59	22.46	23.01	22.97	23.52	24.01
	12H	22.26	22.75	22.77	23.24	23.81	22.75	23.24	23.26	23.74	24.30
12H	4H	21.06	21.73	21.54	22.21	22.68	21.39	22.06	21.87	22.54	23.01
	6H	21.82	22.38	22.33	22.89	23.38	22.18	22.73	22.69	23.24	23.73
	8H	22.16	22.65	22.67	23.15	23.71	22.56	23.06	23.07	23.55	24.12