

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: P892661

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892661
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-L830
Description: 3000 Lumen 2FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 80CRI, 3000K C
Light Source: -
Ballast/Driver: -

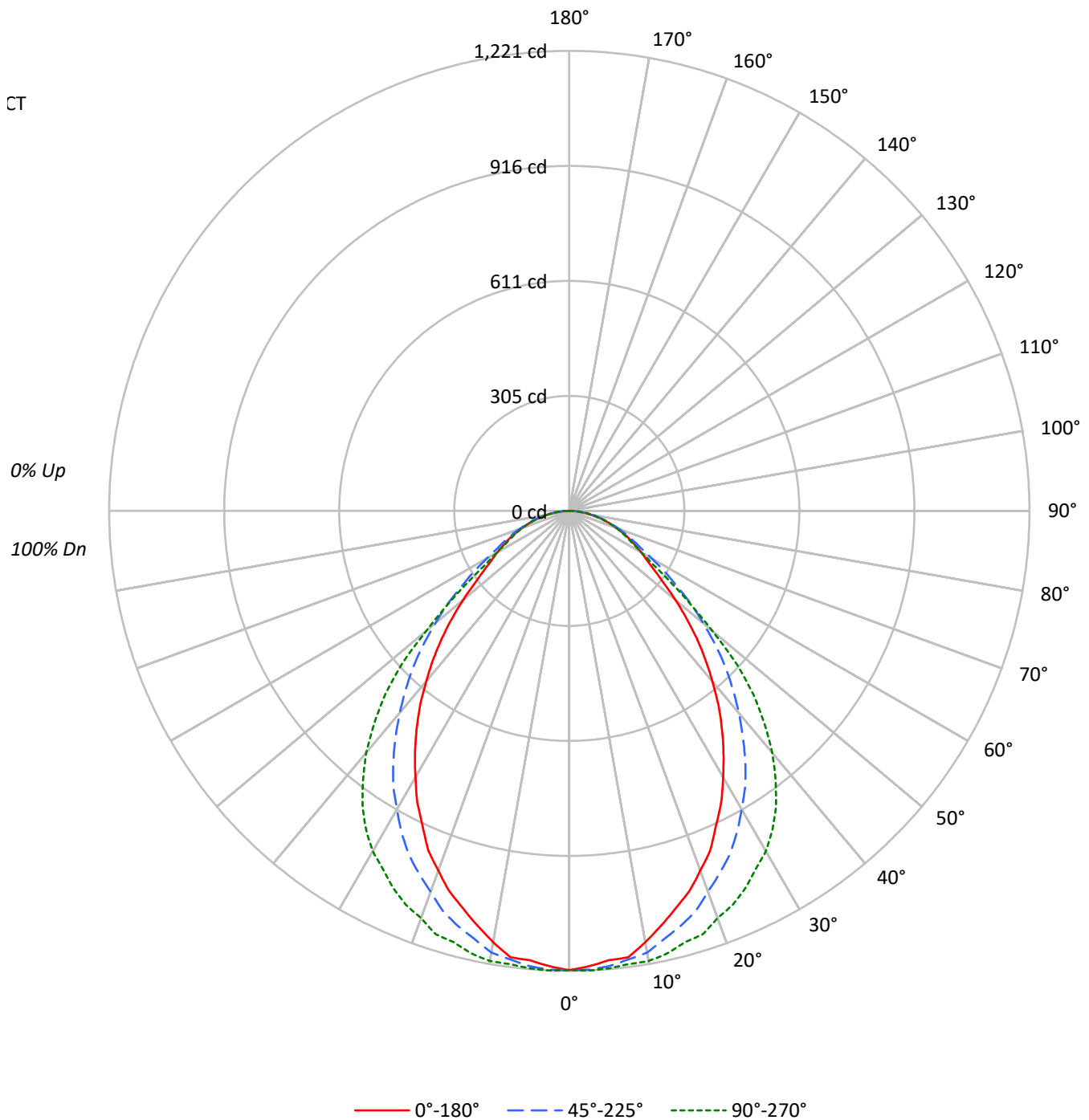
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2470.0 lumens
Efficiency: N/A
Efficacy: 117.6 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	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	110	106	102	99	108	104	100	97	100	97	94	96	94	91	92	90	89	89	89	89	87
2	102	94	88	83	99	93	87	82	89	84	80	86	82	79	83	80	77	77	77	77	75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	67	67	67	65
4	87	76	68	62	84	75	67	62	72	66	61	70	64	60	68	63	59	59	59	59	57
5	80	69	61	54	78	68	60	54	66	59	54	64	58	53	62	57	53	53	53	53	51
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	47	47	47	45
7	70	57	49	43	68	56	49	43	55	48	43	54	47	43	52	47	42	42	42	42	41
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	38	38	38	37
9	61	49	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	35	35	35	33
10	57	45	38	33	56	45	37	33	44	37	32	43	37	32	42	36	32	32	32	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17434	17434	17434
5°	17193	17420	17501
10°	16885	17293	17622
15°	16164	16898	17549
20°	15467	16376	17507
25°	14542	15893	17440
30°	13489	15108	17229
35°	12333	14221	16701
40°	11022	13063	15649
45°	9662	11849	13992
50°	8172	10329	11005
55°	6911	8679	8063
60°	6317	7250	6349
65°	5985	6367	5758
70°	5605	5889	5513
75°	5229	5538	5290
80°	4828	5198	5099
85°	4251	4629	5548

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 13992 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.0	4.7
10°-20°	321.7	13.0
20°-30°	463.7	18.8
30°-40°	511.5	20.7
40°-50°	447.8	18.1
50°-60°	294.2	11.9
60°-70°	179.8	7.3
70°-80°	104.0	4.2
80°-90°	32.3	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°	900.4	36.5
0°-40°	1411.9	57.2
0°-60°	2153.9	87.2
0°-90°	2470.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2470.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1219	1219	1219	1219	1219	
5°	1197	1210	1213	1220	1219	114
15°	1091	1109	1141	1178	1185	307
25°	921	953	1007	1068	1105	424
35°	706	737	814	904	956	440
45°	478	507	586	658	692	368
55°	277	292	348	349	323	253
65°	177	177	188	180	170	175
75°	95	95	100	102	96	101
85°	26	26	28	30	34	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1218.7	1218.7	1218.7	1218.7	1218.7
2.5°	1209.7	1216.4	1218.7	1223.2	1221.0
5°	1197.3	1209.7	1213.1	1219.8	1218.7
7.5°	1195.0	1190.5	1200.7	1214.2	1213.1
10°	1162.4	1171.4	1190.5	1210.8	1213.1
12.5°	1127.5	1142.1	1163.5	1198.4	1202.9
15°	1091.4	1109.4	1141.0	1178.2	1184.9
17.5°	1058.8	1076.8	1114.0	1155.6	1178.2
20°	1016.0	1040.7	1075.7	1127.5	1150.0
22.5°	976.5	996.8	1041.9	1098.2	1132.0
25°	921.3	952.9	1006.9	1067.8	1104.9
27.5°	872.9	902.2	963.0	1030.6	1071.2
30°	816.6	849.3	914.6	990.1	1043.0
32.5°	761.4	791.8	868.4	946.1	1003.6
35°	706.2	736.6	814.3	904.5	956.3
37.5°	649.9	681.4	756.9	849.3	898.8
40°	590.2	626.2	699.5	790.7	838.0
42.5°	533.9	567.7	642.0	731.0	767.0
45°	477.6	506.9	585.7	657.8	691.6
47.5°	421.3	449.4	524.9	584.6	603.7
50°	367.2	393.1	464.1	501.2	494.5
52.5°	316.5	340.2	407.7	422.4	403.2
55°	277.1	291.7	348.0	349.2	323.3
57.5°	244.4	255.7	299.6	288.3	260.2
60°	220.8	224.1	253.4	241.0	221.9
62.5°	197.1	199.4	215.1	206.1	191.5
65°	176.8	176.8	188.1	180.2	170.1
67.5°	154.3	155.4	163.3	158.8	150.9
70°	134.0	134.0	140.8	140.8	131.8
72.5°	113.8	113.8	119.4	120.5	114.9
75°	94.6	94.6	100.2	102.5	95.7
77.5°	76.6	76.6	81.1	84.5	76.6
80°	58.6	58.6	63.1	66.5	61.9
82.5°	41.7	42.8	45.1	48.4	48.4
85°	25.9	25.9	28.2	30.4	33.8
87.5°	11.3	12.4	13.5	14.6	16.9
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	17.34	18.82	17.71	19.13	19.45	18.09	19.56	18.45	19.88	20.19
	3H	18.94	20.26	19.32	20.59	20.95	19.43	20.75	19.81	21.08	21.44
	4H	19.56	20.80	19.96	21.15	21.53	20.00	21.24	20.40	21.59	21.97
	6H	20.04	21.18	20.45	21.54	21.94	20.46	21.60	20.87	21.97	22.36
	8H	20.19	21.28	20.62	21.67	22.07	20.64	21.73	21.07	22.12	22.52
	12H	20.30	21.34	20.73	21.72	22.15	20.79	21.83	21.22	22.21	22.64
4H	2H	17.97	19.21	18.37	19.56	19.94	18.57	19.80	18.97	20.15	20.53
	3H	19.78	20.80	20.19	21.20	21.60	20.17	21.20	20.58	21.60	22.00
	4H	20.51	21.43	20.95	21.85	22.29	20.90	21.82	21.33	22.24	22.68
	6H	21.11	21.91	21.57	22.36	22.82	21.51	22.31	21.97	22.76	23.22
	8H	21.32	22.07	21.78	22.51	22.98	21.75	22.50	22.21	22.94	23.41
	12H	21.46	22.13	21.95	22.61	23.08	21.95	22.62	22.44	23.10	23.57
8H	4H	20.82	21.57	21.29	22.02	22.49	21.17	21.92	21.63	22.36	22.83
	6H	21.55	22.17	22.05	22.66	23.14	21.92	22.54	22.42	23.04	23.51
	8H	21.83	22.39	22.35	22.90	23.39	22.25	22.81	22.77	23.32	23.81
	12H	22.05	22.55	22.57	23.04	23.61	22.54	23.04	23.05	23.53	24.10
12H	4H	20.86	21.53	21.34	22.01	22.48	21.19	21.86	21.67	22.34	22.81
	6H	21.61	22.17	22.13	22.68	23.17	21.97	22.53	22.49	23.04	23.53
	8H	21.96	22.45	22.47	22.94	23.51	22.36	22.85	22.87	23.35	23.91