

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: P892653

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892653
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-26)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-3SL-LVRA-UNV-L830
Description: 3000 Lumen 2FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 80CRI, 3000K CCT
Light Source: -
Ballast/Driver: -

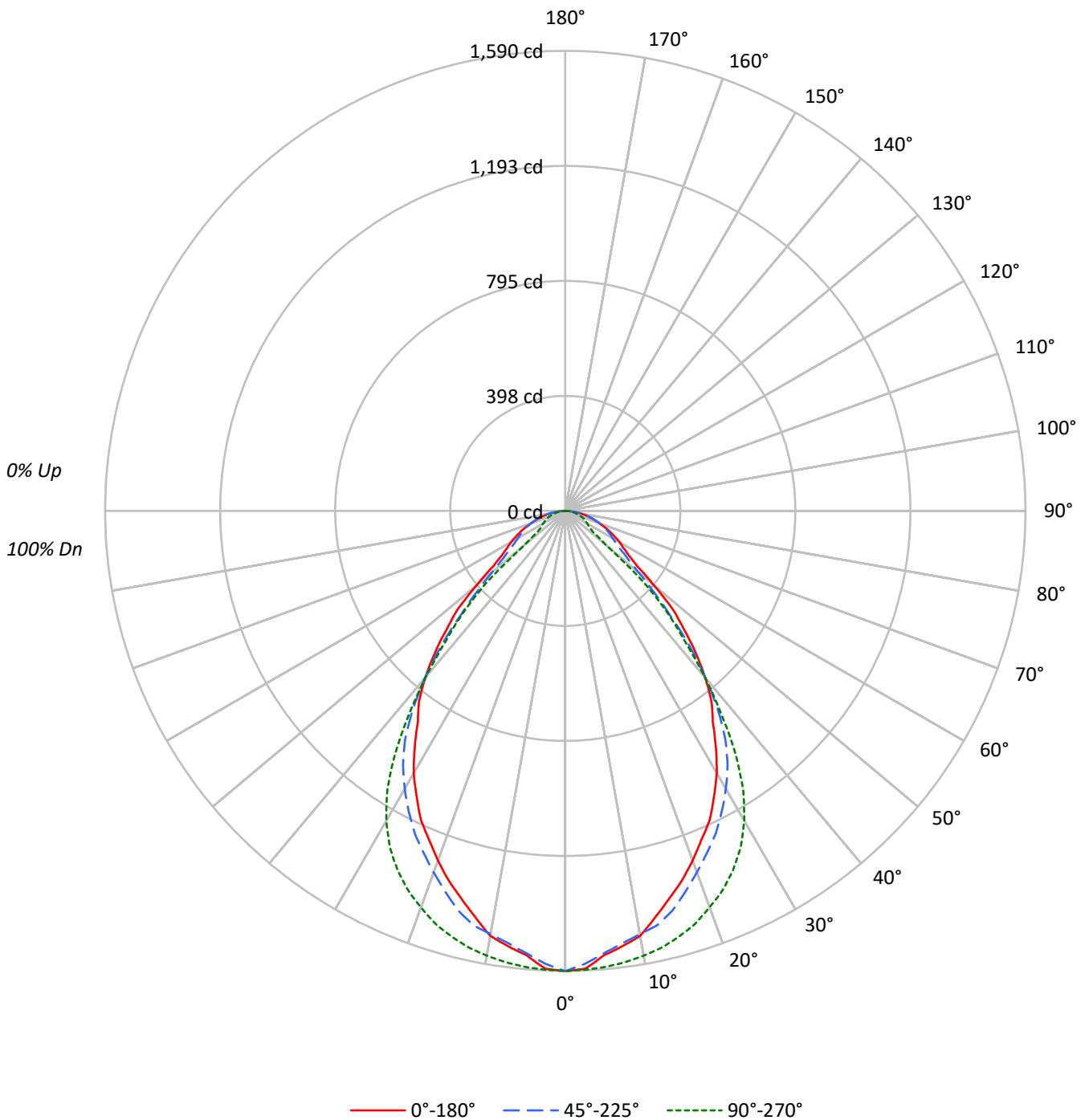
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2581.0 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.16 / 1.12
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 (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

TEST NUMBER: P892653
CATALOG NUMBER: 2MB-3SL-LVRA-UNV-L830

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	100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88	88	88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78	78	78
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69	69	69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62	62	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55	55	55
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	50	50	50
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	45	45	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41	41	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38	38	38
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	35	35	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22750	22750	22750
5°	22136	22037	22725
10°	21666	21571	22672
15°	20548	21178	22545
20°	19574	20235	22201
25°	18619	19415	21634
30°	17298	18327	20427
35°	15511	16842	17916
40°	14053	14084	14008
45°	11750	10407	10150
50°	8875	7324	4151
55°	6674	5859	2616
60°	6203	5393	2521
65°	5771	5382	2525
70°	5278	5278	2484
75°	5008	5140	2399
80°	4630	4861	2463
85°	4038	4235	2692

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 12023 cd/sqm



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 CATALOG NUMBER: 2MB-3SL-LVRA-UNV-L830

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.9	5.7
10°-20°	404.8	15.7
20°-30°	574.0	22.2
30°-40°	591.3	22.9
40°-50°	413.0	16.0
50°-60°	198.2	7.7
60°-70°	139.0	5.4
70°-80°	86.9	3.4
80°-90°	26.9	1.0
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°	1125.6	43.6
0°-40°	1716.9	66.5
0°-60°	2328.1	90.2
0°-90°	2581.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2581.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1590	1590	1590	1590	1590	
5°	1542	1540	1535	1575	1582	146
15°	1387	1398	1430	1471	1522	391
25°	1180	1192	1230	1313	1371	539
35°	888	912	964	984	1026	560
45°	581	594	514	488	502	447
55°	268	254	235	150	105	251
65°	170	159	159	121	75	169
75°	91	89	93	80	43	95
85°	25	25	26	25	16	27
90°	0	0	0	0	0	



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CATALOG NUMBER: 2MB-3SL-LVRA-UNV-L830

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1590.3	1590.3	1590.3	1590.3	1590.3
2.5°	1584.2	1579.2	1567.3	1589.1	1587.4
5°	1541.5	1539.5	1534.6	1574.7	1582.5
7.5°	1517.3	1513.2	1507.5	1551.8	1573.5
10°	1491.5	1496.4	1485.0	1525.5	1560.8
12.5°	1438.2	1451.4	1466.9	1498.5	1545.2
15°	1387.4	1397.7	1430.0	1471.0	1522.3
17.5°	1339.9	1351.8	1379.6	1441.1	1495.6
20°	1285.8	1302.2	1329.2	1407.9	1458.3
22.5°	1230.0	1245.2	1279.2	1363.6	1419.8
25°	1179.6	1191.5	1230.0	1313.2	1370.6
27.5°	1112.8	1134.9	1171.4	1251.7	1312.0
30°	1047.2	1066.1	1109.5	1177.2	1236.6
32.5°	968.1	995.6	1043.5	1095.2	1144.8
35°	888.2	912.4	964.4	984.5	1025.9
37.5°	830.0	836.5	866.1	863.6	887.0
40°	752.5	765.6	754.2	723.4	750.1
42.5°	668.9	684.5	638.2	602.5	611.9
45°	580.8	594.3	514.4	488.2	501.7
47.5°	504.6	503.3	414.8	397.2	378.3
50°	398.8	411.9	329.1	296.3	186.5
52.5°	311.5	316.4	271.3	189.4	122.6
55°	267.6	254.5	234.9	150.4	104.9
57.5°	237.7	221.3	208.2	139.8	95.9
60°	216.8	198.4	188.5	132.8	88.1
62.5°	193.0	178.7	175.0	126.7	81.2
65°	170.5	159.4	159.0	120.9	74.6
67.5°	148.0	141.8	143.5	113.9	67.2
70°	126.2	125.0	126.2	104.9	59.4
72.5°	107.8	106.6	109.8	93.5	50.8
75°	90.6	89.4	93.0	80.3	43.4
77.5°	72.1	73.0	75.4	66.8	36.5
80°	56.2	56.2	59.0	52.5	29.9
82.5°	40.2	40.6	42.2	38.5	23.4
85°	24.6	24.6	25.8	25.4	16.4
87.5°	8.2	9.4	11.1	11.9	8.2
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	16.50	17.86	16.87	18.17	18.48	12.84	14.19	13.20	14.50	14.82
	3H	18.24	19.45	18.62	19.78	20.14	14.81	16.02	15.19	16.35	16.71
	4H	18.91	20.04	19.31	20.39	20.77	15.51	16.64	15.92	16.99	17.37
	6H	19.42	20.46	19.83	20.83	21.22	16.04	17.08	16.45	17.45	17.84
	8H	19.59	20.58	20.02	20.97	21.37	16.22	17.21	16.65	17.60	18.00
	12H	19.70	20.64	20.13	21.03	21.46	16.36	17.31	16.79	17.69	18.12
4H	2H	17.03	18.16	17.43	18.51	18.89	14.46	15.58	14.86	15.94	16.32
	3H	19.01	19.94	19.42	20.34	20.75	16.63	17.56	17.05	17.97	18.37
	4H	19.81	20.65	20.25	21.07	21.51	17.51	18.35	17.95	18.77	19.21
	6H	20.46	21.18	20.92	21.63	22.09	18.16	18.88	18.62	19.33	19.79
	8H	20.68	21.35	21.14	21.80	22.27	18.37	19.04	18.83	19.49	19.96
	12H	20.83	21.43	21.32	21.91	22.39	18.52	19.12	19.01	19.61	20.08
8H	4H	20.10	20.77	20.56	21.22	21.69	18.16	18.84	18.63	19.29	19.76
	6H	20.88	21.44	21.38	21.93	22.41	19.02	19.58	19.52	20.07	20.56
	8H	21.18	21.68	21.70	22.20	22.69	19.35	19.85	19.87	20.36	20.86
	12H	21.42	21.86	21.93	22.35	22.92	19.62	20.06	20.13	20.55	21.12
12H	4H	20.11	20.71	20.60	21.20	21.67	18.24	18.84	18.72	19.32	19.79
	6H	20.93	21.43	21.45	21.95	22.44	19.16	19.66	19.68	20.17	20.67
	8H	21.30	21.74	21.81	22.23	22.80	19.58	20.02	20.09	20.51	21.08