

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: P893047

Luminaire Tested: 2MB-SC3-LVRA-UNV-CC83-HI-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893047
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-SC3-LVRA-UNV-CC83-HI-3500K
Description: Selectable 2FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 80CRI, 3500K CCT, HI lumen setting
Light Source: -
Ballast/Driver: -

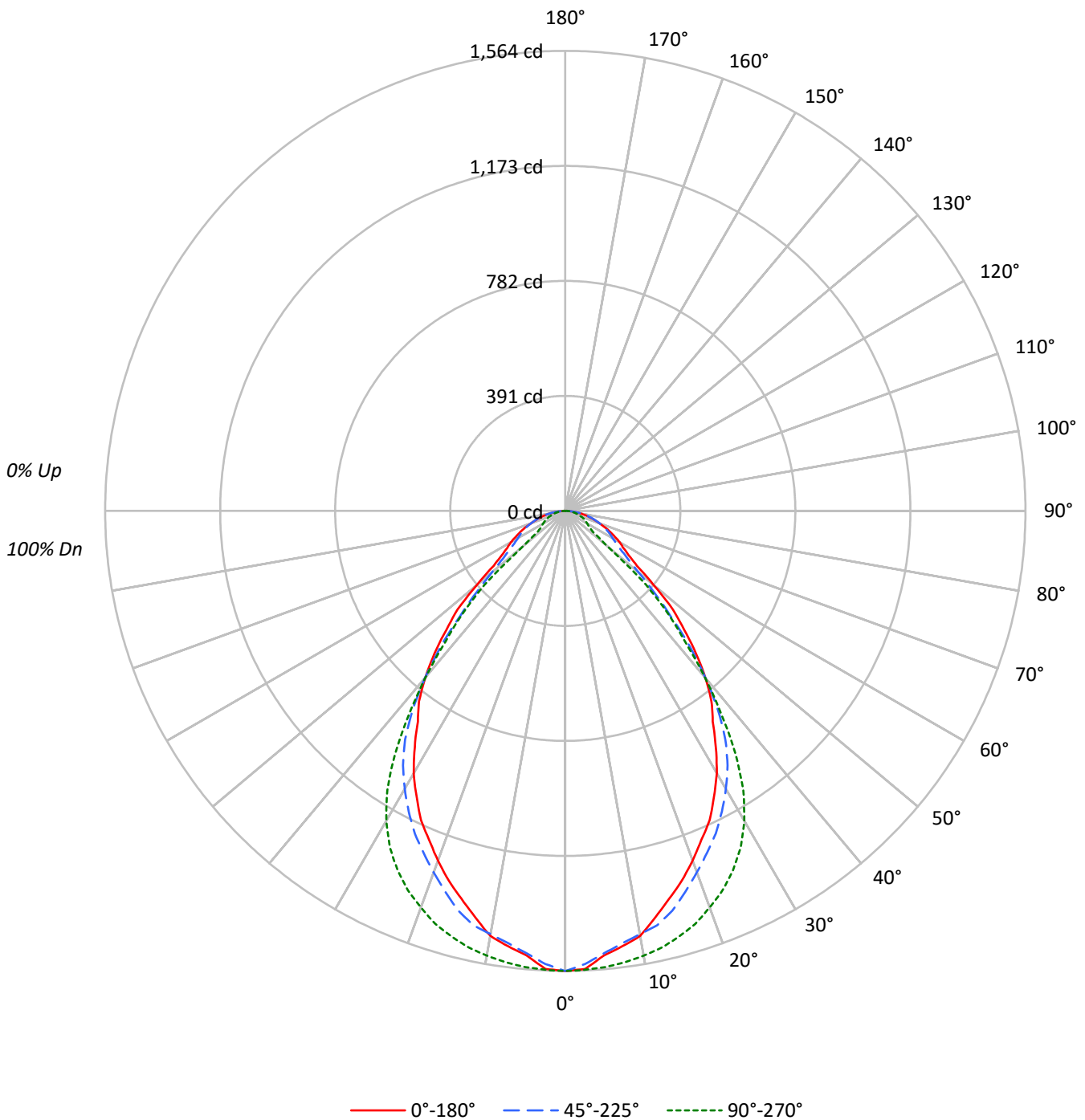
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2539.0 lumens
Efficiency: N/A
Efficacy: 120.9 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 (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 5.39961257980444
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P893047
CATALOG NUMBER: 2MB-SC3-LVRA-UNV-CC83-HI-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P893047

CATALOG NUMBER: 2MB-SC3-LVRA-UNV-CC83-HI-3500K

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22380	22380	22380
5°	21776	21678	22356
10°	21314	21220	22303
15°	20213	20835	22178
20°	19255	19906	21840
25°	18316	19099	21282
30°	17017	18030	20095
35°	15258	16568	17624
40°	13825	13855	13780
45°	11558	10237	9984
50°	8731	7206	4084
55°	6567	5761	2574
60°	6103	5307	2481
65°	5677	5294	2485
70°	5195	5195	2447
75°	4925	5057	2360
80°	4547	4786	2422
85°	3972	4169	2643

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 11827 cd/sqm



TEST NUMBER: P893047

CATALOG NUMBER: 2MB-SC3-LVRA-UNV-CC83-HI-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.5	5.7
10°-20°	398.2	15.7
20°-30°	564.6	22.2
30°-40°	581.7	22.9
40°-50°	406.3	16.0
50°-60°	195.0	7.7
60°-70°	136.8	5.4
70°-80°	85.5	3.4
80°-90°	26.4	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°	1107.3	43.6
0°-40°	1689.0	66.5
0°-60°	2290.3	90.2
0°-90°	2539.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2539.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1564	1564	1564	1564	1564	
5°	1516	1514	1510	1549	1557	144
15°	1365	1375	1407	1447	1498	384
25°	1160	1172	1210	1292	1348	531
35°	874	898	949	968	1009	551
45°	571	585	506	480	494	440
55°	263	250	231	148	103	247
65°	168	157	156	119	73	166
75°	89	88	92	79	43	94
85°	24	24	25	25	16	27
90°	0	0	0	0	0	



TEST NUMBER: P893047

CATALOG NUMBER: 2MB-SC3-LVRA-UNV-CC83-HI-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1564.4	1564.4	1564.4	1564.4	1564.4
2.5°	1558.4	1553.5	1541.8	1563.2	1561.6
5°	1516.4	1514.4	1509.6	1549.1	1556.8
7.5°	1492.7	1488.6	1483.0	1526.5	1547.9
10°	1467.3	1472.1	1460.8	1500.7	1535.4
12.5°	1414.8	1427.7	1443.1	1474.1	1520.1
15°	1364.8	1374.9	1406.8	1447.1	1497.5
17.5°	1318.1	1329.8	1357.2	1417.7	1471.3
20°	1264.8	1281.0	1307.6	1385.0	1434.6
22.5°	1210.0	1224.9	1258.4	1341.5	1396.7
25°	1160.4	1172.1	1210.0	1291.9	1348.3
27.5°	1094.7	1116.5	1152.4	1231.4	1290.6
30°	1030.2	1048.7	1091.5	1158.0	1216.5
32.5°	952.4	979.4	1026.6	1077.4	1126.1
35°	873.7	897.5	948.7	968.5	1009.2
37.5°	816.5	822.9	852.0	849.5	872.5
40°	740.3	753.2	741.9	711.7	737.9
42.5°	658.0	673.3	627.8	592.7	602.0
45°	571.3	584.6	506.0	480.2	493.5
47.5°	496.3	495.1	408.0	390.7	372.2
50°	392.3	405.2	323.8	291.5	183.5
52.5°	306.4	311.3	266.9	186.3	120.6
55°	263.3	250.4	231.0	148.0	103.2
57.5°	233.9	217.7	204.8	137.5	94.3
60°	213.3	195.1	185.5	130.6	86.7
62.5°	189.9	175.8	172.2	124.6	79.8
65°	167.7	156.8	156.4	118.9	73.4
67.5°	145.6	139.5	141.1	112.1	66.1
70°	124.2	123.0	124.2	103.2	58.5
72.5°	106.0	104.8	108.1	91.9	50.0
75°	89.1	87.9	91.5	79.0	42.7
77.5°	71.0	71.8	74.2	65.7	35.9
80°	55.2	55.2	58.1	51.6	29.4
82.5°	39.5	39.9	41.5	37.9	23.0
85°	24.2	24.2	25.4	25.0	16.1
87.5°	8.1	9.3	10.9	11.7	8.1
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P893047
 CATALOG NUMBER: 2MB-SC3-LVRA-UNV-CC83-HI-3500K

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	16.45	17.80	16.81	18.11	18.43	12.78	14.13	13.14	14.44	14.76
	3H	18.18	19.39	18.56	19.72	20.08	14.75	15.96	15.13	16.29	16.65
	4H	18.86	19.98	19.26	20.33	20.72	15.46	16.59	15.86	16.94	17.32
	6H	19.36	20.40	19.78	20.77	21.16	15.98	17.02	16.39	17.39	17.78
	8H	19.53	20.52	19.96	20.91	21.31	16.17	17.15	16.60	17.54	17.95
	12H	19.64	20.59	20.08	20.97	21.40	16.30	17.25	16.74	17.63	18.06
4H	2H	16.98	18.10	17.38	18.45	18.84	14.40	15.53	14.80	15.88	16.26
	3H	18.95	19.88	19.37	20.29	20.69	16.58	17.51	16.99	17.91	18.31
	4H	19.76	20.59	20.19	21.01	21.45	17.46	18.29	17.89	18.71	19.15
	6H	20.40	21.12	20.86	21.57	22.03	18.10	18.82	18.56	19.27	19.73
	8H	20.62	21.29	21.09	21.74	22.21	18.31	18.99	18.78	19.43	19.90
	12H	20.77	21.37	21.26	21.85	22.33	18.47	19.07	18.95	19.55	20.02
8H	4H	20.04	20.72	20.51	21.16	21.63	18.11	18.78	18.57	19.23	19.70
	6H	20.82	21.38	21.32	21.87	22.35	18.97	19.52	19.47	20.02	20.50
	8H	21.12	21.62	21.64	22.14	22.63	19.29	19.79	19.81	20.31	20.80
	12H	21.36	21.80	21.87	22.29	22.86	19.56	20.00	20.07	20.49	21.06
12H	4H	20.06	20.66	20.54	21.14	21.61	18.18	18.78	18.66	19.26	19.73
	6H	20.87	21.37	21.39	21.89	22.38	19.10	19.60	19.62	20.12	20.61
	8H	21.24	21.68	21.75	22.17	22.74	19.52	19.96	20.03	20.45	21.02