

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: P894241

Luminaire Tested: 4MB-SC3-LVR-UNV-CC93-MID-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894241
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-8)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4MB-SC3-LVR-UNV-CC93-MID-4000K
Description: Selectable 4FT MICROBAY LINEAR BAY with LOUVER, 90CRI, 4000K CCT, MID lumen setting
Light Source: -
Ballast/Driver: -

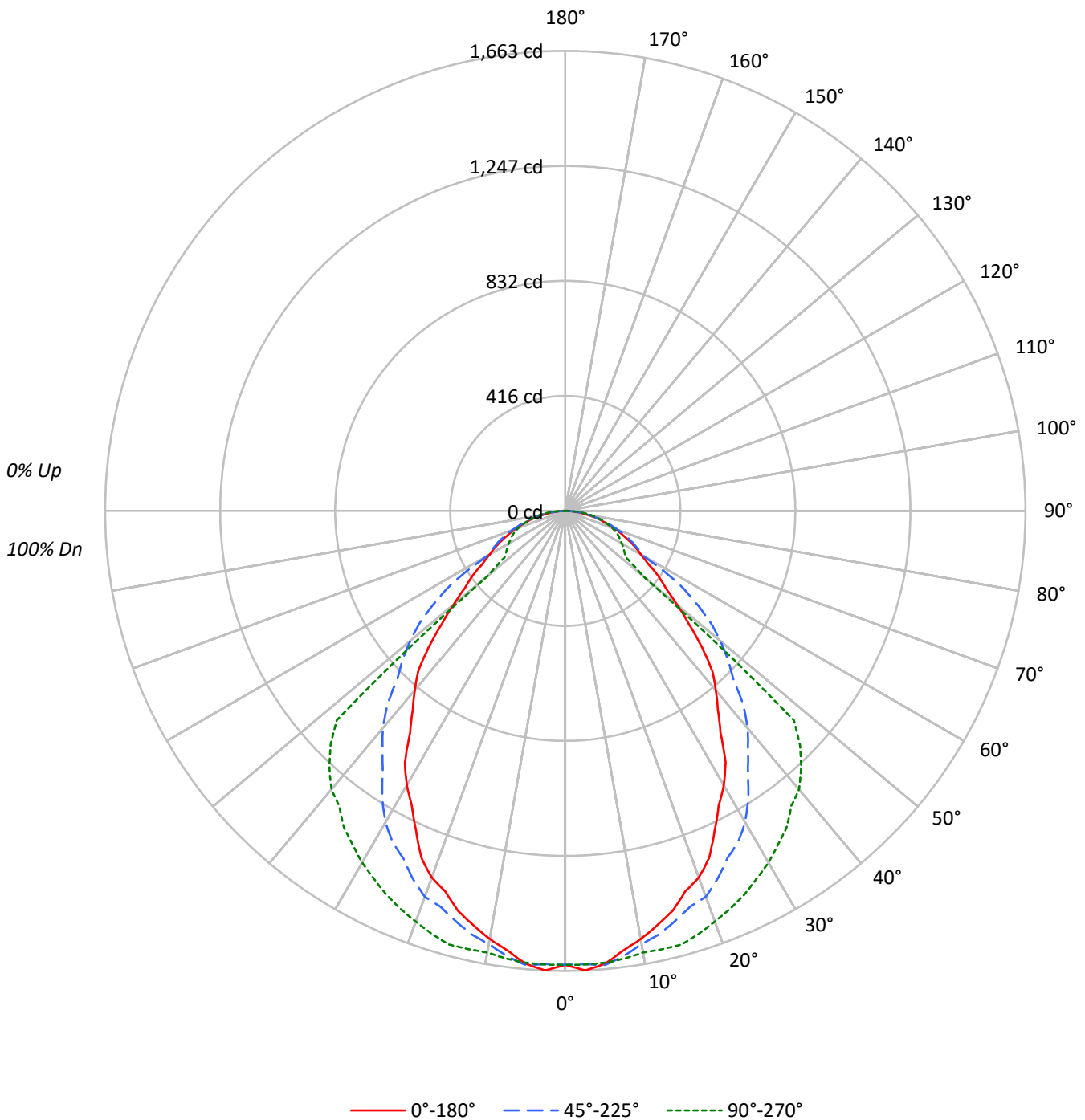
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3502.0 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.33 / 1.27
Luminous Opening: Rectangular (W 0.38' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 33.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.9948
Total Harmonic Distortion (THDi): 5.65231997856897
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P894241
CATALOG NUMBER: 4MB-SC3-LVR-UNV-CC93-MID-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P894241

CATALOG NUMBER: 4MB-SC3-LVR-UNV-CC93-MID-4000K

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	93	91	92	90	89	89	89	89	87
2	102	94	88	83	99	92	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	74	67	61	72	66	61	70	64	60	68	63	59	59	59	59	57
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	57	52	52	52	52	50
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	47	47	47	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	42	42	42	40
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	38	38	38	36
9	61	48	40	35	59	48	40	35	47	40	35	45	39	35	44	39	35	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11676	11676	11676
5°	11739	11768	11709
10°	11354	11487	11711
15°	11026	11304	11952
20°	10681	11239	11962
25°	10021	10876	12014
30°	9413	10680	12064
35°	8489	9988	12121
40°	7862	9529	12206
45°	7033	8635	12069
50°	5836	8089	4055
55°	5083	7100	3244
60°	4497	4628	3364
65°	4276	4502	3569
70°	4011	4254	3765
75°	3733	4008	3871
80°	3401	3778	4052
85°	3012	3216	4376

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 12069 cd/sqm



TEST NUMBER: P894241
 CATALOG NUMBER: 4MB-SC3-LVR-UNV-CC93-MID-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.6	4.4
10°-20°	437.9	12.5
20°-30°	644.1	18.4
30°-40°	736.6	21.0
40°-50°	697.5	19.9
50°-60°	384.3	11.0
60°-70°	246.7	7.0
70°-80°	152.3	4.3
80°-90°	46.9	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°	1237.7	35.3
0°-40°	1974.3	56.4
0°-60°	3056.1	87.3
0°-90°	3502.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3502.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1641	1641	1641	1641	1641	
5°	1644	1657	1648	1648	1639	154
15°	1497	1515	1535	1615	1623	420
25°	1276	1334	1385	1476	1530	588
35°	977	1061	1150	1317	1396	618
45°	699	765	858	1101	1199	535
55°	410	430	572	295	262	366
65°	254	262	267	238	212	251
75°	136	138	146	153	141	144
85°	37	37	39	45	54	41
90°	0	0	0	0	0	



TEST NUMBER: P894241

CATALOG NUMBER: 4MB-SC3-LVR-UNV-CC93-MID-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1641.0	1641.0	1641.0	1641.0	1641.0
2.5°	1662.8	1667.0	1640.2	1639.4	1641.9
5°	1643.6	1657.0	1647.7	1647.7	1639.4
7.5°	1602.5	1625.1	1622.6	1641.9	1632.7
10°	1571.5	1589.9	1589.9	1640.2	1620.9
12.5°	1534.6	1555.6	1567.3	1620.1	1622.6
15°	1496.9	1515.3	1534.6	1615.1	1622.6
17.5°	1442.4	1475.9	1500.2	1579.0	1603.3
20°	1410.6	1430.7	1484.3	1548.0	1579.9
22.5°	1357.8	1387.1	1439.1	1510.3	1557.2
25°	1276.5	1333.5	1385.4	1475.9	1530.4
27.5°	1201.0	1243.8	1351.1	1446.6	1498.6
30°	1145.7	1179.2	1299.9	1403.9	1468.4
32.5°	1078.7	1133.1	1231.2	1361.9	1430.7
35°	977.3	1061.1	1149.9	1316.7	1395.5
37.5°	906.0	963.8	1084.5	1269.8	1342.7
40°	846.5	899.3	1025.9	1211.1	1314.2
42.5°	787.0	829.7	952.1	1167.5	1261.4
45°	699.0	765.2	858.2	1101.3	1199.4
47.5°	606.8	677.2	797.1	1045.1	1120.6
50°	527.2	583.3	730.8	933.7	366.3
52.5°	457.6	509.6	660.4	337.8	276.6
55°	409.8	430.0	572.4	295.0	261.5
57.5°	352.8	385.5	480.2	280.8	248.1
60°	316.0	330.2	325.2	266.5	236.4
62.5°	286.6	296.7	295.0	252.3	222.9
65°	254.0	262.3	267.4	238.0	212.0
67.5°	221.3	228.8	236.4	220.4	197.0
70°	192.8	197.8	204.5	199.5	181.0
72.5°	163.4	169.3	173.5	177.7	160.1
75°	135.8	138.3	145.8	153.4	140.8
77.5°	110.6	113.1	118.2	126.6	119.9
80°	83.0	85.5	92.2	98.9	98.9
82.5°	58.7	60.3	64.5	73.8	77.9
85°	36.9	36.9	39.4	45.3	53.6
87.5°	14.2	14.2	16.8	20.1	26.8
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P894241
 CATALOG NUMBER: 4MB-SC3-LVR-UNV-CC93-MID-4000K

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	16.49	17.97	16.85	18.28	18.60	14.29	15.77	14.66	16.09	16.40
	3H	18.01	19.34	18.39	19.67	20.03	16.62	17.95	17.00	18.28	18.64
	4H	18.61	19.85	19.01	20.20	20.58	17.57	18.81	17.97	19.16	19.54
	6H	19.06	20.21	19.48	20.58	20.97	18.36	19.50	18.77	19.87	20.26
	8H	19.21	20.30	19.64	20.69	21.09	18.67	19.76	19.10	20.15	20.55
	12H	19.30	20.35	19.74	20.73	21.16	18.92	19.96	19.35	20.34	20.77
4H	2H	17.04	18.28	17.44	18.63	19.01	15.40	16.64	15.80	16.99	17.37
	3H	18.81	19.84	19.22	20.24	20.64	17.84	18.87	18.25	19.27	19.67
	4H	19.53	20.46	19.96	20.87	21.31	18.91	19.83	19.34	20.25	20.69
	6H	20.12	20.92	20.57	21.36	21.83	19.80	20.60	20.25	21.04	21.51
	8H	20.31	21.06	20.77	21.50	21.97	20.15	20.90	20.61	21.34	21.81
	12H	20.44	21.12	20.93	21.59	22.07	20.44	21.11	20.92	21.59	22.06
8H	4H	19.84	20.59	20.30	21.04	21.50	19.29	20.05	19.76	20.49	20.96
	6H	20.55	21.17	21.05	21.67	22.14	20.33	20.95	20.83	21.45	21.92
	8H	20.81	21.37	21.33	21.88	22.37	20.77	21.34	21.29	21.85	22.34
	12H	21.02	21.52	21.53	22.01	22.58	21.16	21.66	21.67	22.15	22.72
12H	4H	19.87	20.55	20.36	21.03	21.50	19.33	20.00	19.81	20.48	20.95
	6H	20.61	21.18	21.13	21.69	22.18	20.39	20.96	20.91	21.47	21.96
	8H	20.93	21.43	21.44	21.92	22.49	20.90	21.40	21.41	21.89	22.46