

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: P892866

Luminaire Tested: 2MB-5HL-RFLW-UNV-L935

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892866
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2408-210-5)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-5HL-RFLW-UNV-L935
Description: 5000 Lumen 2FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 90CRI, 3500K
Light Source: -
Ballast/Driver: -

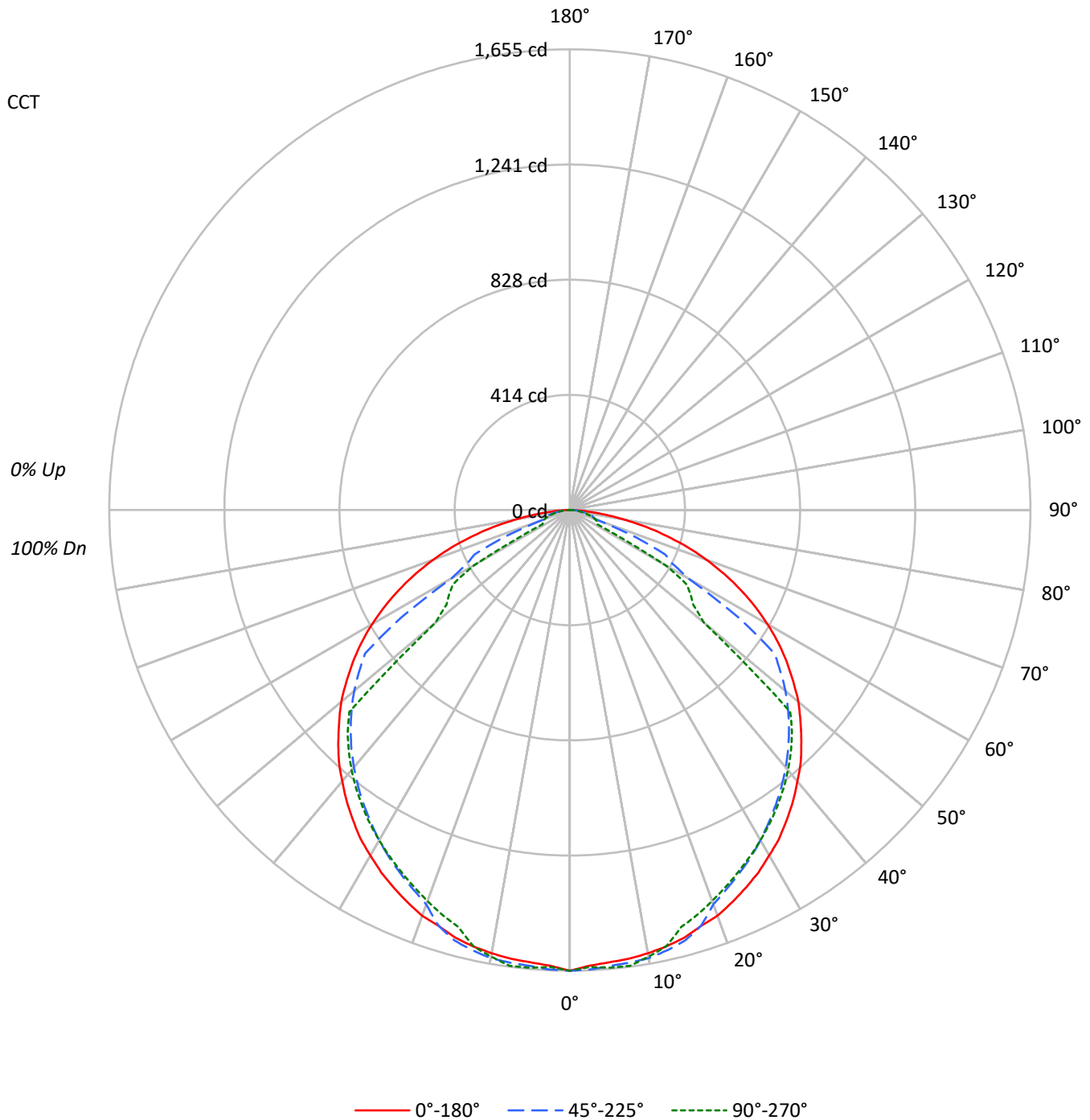
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4213.0 lumens
Efficiency: N/A
Efficacy: 125.0 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.24 / 1.38
Luminous Opening: Rectangular (W 0.21' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 33.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 4.5
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P892866
CATALOG NUMBER: 2MB-5HL-RFLW-UNV-L935

Luminous Intensity Polar Plot





TEST NUMBER: P892866
 CATALOG NUMBER: 2MB-5HL-RFLW-UNV-L935

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	98	107	103	100	97	99	96	94	95	93	91	92	90	88	88	88	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	75	75	75	73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	65	65	65	63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	56	56	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	49	49	49	47
6	72	60	51	45	70	59	51	45	57	50	44	55	49	44	54	48	43	43	43	43	42
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	39	39	39	37
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	35	35	35	33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	31	31	31	30
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	29	29	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	43214	43214	43214
5°	42739	43085	43256
10°	42860	43334	43183
15°	42990	43268	41898
20°	43095	41895	41531
25°	43112	41491	41303
30°	43194	41301	41301
35°	43304	41150	41421
40°	43365	41126	41573
45°	43446	41124	41678
50°	43561	41084	25536
55°	43310	40829	24088
60°	42822	25476	20824
65°	41792	23358	6610
70°	39900	7450	7450
75°	36345	8332	7384
80°	29769	8465	6766
85°	21089	8447	6171

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 43561 cd/sqm



TEST NUMBER: P892866
 CATALOG NUMBER: 2MB-5HL-RFLW-UNV-L935

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.6	3.7
10°-20°	447.0	10.6
20°-30°	673.8	16.0
30°-40°	818.8	19.4
40°-50°	862.5	20.5
50°-60°	677.3	16.1
60°-70°	381.2	9.0
70°-80°	158.7	3.8
80°-90°	37.1	0.9
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°	1277.4	30.3
0°-40°	2096.2	49.8
0°-60°	3636.1	86.3
0°-90°	4213.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4213.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1655	1655	1655	1655	1655	
5°	1631	1650	1644	1643	1650	155
15°	1590	1609	1601	1553	1550	449
25°	1497	1508	1440	1432	1434	691
35°	1359	1313	1291	1295	1300	851
45°	1177	1111	1114	1127	1129	908
55°	952	883	897	526	529	850
65°	676	622	378	102	107	667
75°	360	216	83	76	73	381
85°	70	31	28	24	21	89
90°	0	0	0	0	0	



TEST NUMBER: P892866

CATALOG NUMBER: 2MB-5HL-RFLW-UNV-L935

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1655.2	1655.2	1655.2	1655.2	1655.2
2.5°	1638.3	1661.8	1652.4	1643.0	1643.0
5°	1630.8	1649.6	1644.0	1643.0	1650.5
7.5°	1626.1	1642.1	1640.2	1642.1	1651.5
10°	1616.7	1634.6	1634.6	1628.0	1628.9
12.5°	1605.5	1623.3	1619.6	1608.3	1604.6
15°	1590.5	1609.2	1600.8	1552.9	1550.1
17.5°	1567.0	1589.5	1567.0	1522.0	1524.8
20°	1551.1	1568.0	1507.9	1492.9	1494.8
22.5°	1524.8	1539.8	1473.2	1462.9	1464.7
25°	1496.6	1507.9	1440.3	1431.9	1433.8
27.5°	1467.6	1470.4	1406.6	1400.9	1402.8
30°	1432.8	1420.6	1370.0	1366.2	1370.0
32.5°	1400.0	1371.8	1330.6	1331.5	1336.2
35°	1358.7	1312.7	1291.1	1294.9	1299.6
37.5°	1317.4	1262.1	1249.9	1257.4	1261.1
40°	1272.4	1213.3	1206.7	1214.2	1219.8
42.5°	1228.3	1163.5	1161.7	1172.9	1175.7
45°	1176.7	1111.0	1113.8	1126.9	1128.8
47.5°	1124.1	1057.5	1064.1	1076.3	1074.4
50°	1072.5	1001.2	1011.5	993.7	628.7
52.5°	1011.5	943.0	954.3	592.1	558.3
55°	951.5	883.0	897.0	525.5	529.2
57.5°	888.6	820.1	716.9	494.5	498.3
60°	820.1	756.3	487.9	462.6	398.8
62.5°	749.7	689.7	413.8	259.9	109.8
65°	676.5	622.1	378.1	102.3	107.0
67.5°	599.6	553.6	259.0	99.5	104.2
70°	522.7	429.8	97.6	95.7	97.6
72.5°	442.9	335.9	91.0	87.3	86.3
75°	360.3	215.8	82.6	76.0	73.2
77.5°	281.5	124.8	70.4	62.9	59.1
80°	198.0	63.8	56.3	47.9	45.0
82.5°	128.6	46.9	41.3	35.7	33.8
85°	70.4	31.0	28.2	23.5	20.6
87.5°	31.0	18.8	16.0	12.2	9.4
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P892866
 CATALOG NUMBER: 2MB-5HL-RFLW-UNV-L935

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	25.75	27.31	26.11	27.62	27.94	22.13	23.69	22.50	24.01	24.32
	3H	27.66	29.06	28.04	29.39	29.75	22.27	23.67	22.65	24.00	24.36
	4H	28.26	29.57	28.66	29.92	30.30	22.39	23.70	22.79	24.05	24.43
	6H	28.63	29.84	29.04	30.21	30.60	22.49	23.70	22.90	24.06	24.46
	8H	28.73	29.89	29.16	30.27	30.68	22.52	23.67	22.95	24.06	24.46
	12H	28.79	29.89	29.22	30.28	30.71	22.54	23.64	22.97	24.02	24.45
4H	2H	25.89	27.20	26.29	27.55	27.93	22.81	24.12	23.21	24.47	24.85
	3H	27.91	28.99	28.32	29.39	29.79	23.01	24.10	23.43	24.50	24.90
	4H	28.57	29.54	29.00	29.96	30.40	23.17	24.14	23.60	24.56	24.99
	6H	28.99	29.83	29.45	30.28	30.74	23.33	24.17	23.79	24.62	25.08
	8H	29.12	29.91	29.58	30.35	30.82	23.38	24.17	23.85	24.61	25.08
	12H	29.21	29.91	29.69	30.39	30.86	23.42	24.13	23.91	24.61	25.08
8H	4H	28.51	29.30	28.97	29.74	30.21	23.40	24.18	23.86	24.63	25.09
	6H	28.94	29.59	29.43	30.08	30.55	23.60	24.26	24.10	24.75	25.22
	8H	29.07	29.66	29.59	30.17	30.66	23.69	24.28	24.20	24.79	25.27
	12H	29.20	29.72	29.71	30.21	30.77	23.77	24.29	24.28	24.79	25.35
12H	4H	28.48	29.19	28.97	29.67	30.14	23.41	24.11	23.89	24.59	25.06
	6H	28.90	29.48	29.41	29.99	30.48	23.63	24.21	24.14	24.72	25.21
	8H	29.06	29.58	29.57	30.07	30.64	23.75	24.27	24.26	24.77	25.33