

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: P892868

Luminaire Tested: 2MB-5HL-RFLW-UNV-L950

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892868
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-L950
Description: 5000 Lumen 2FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 90CRI, 5000K
Light Source: -
Ballast/Driver: -

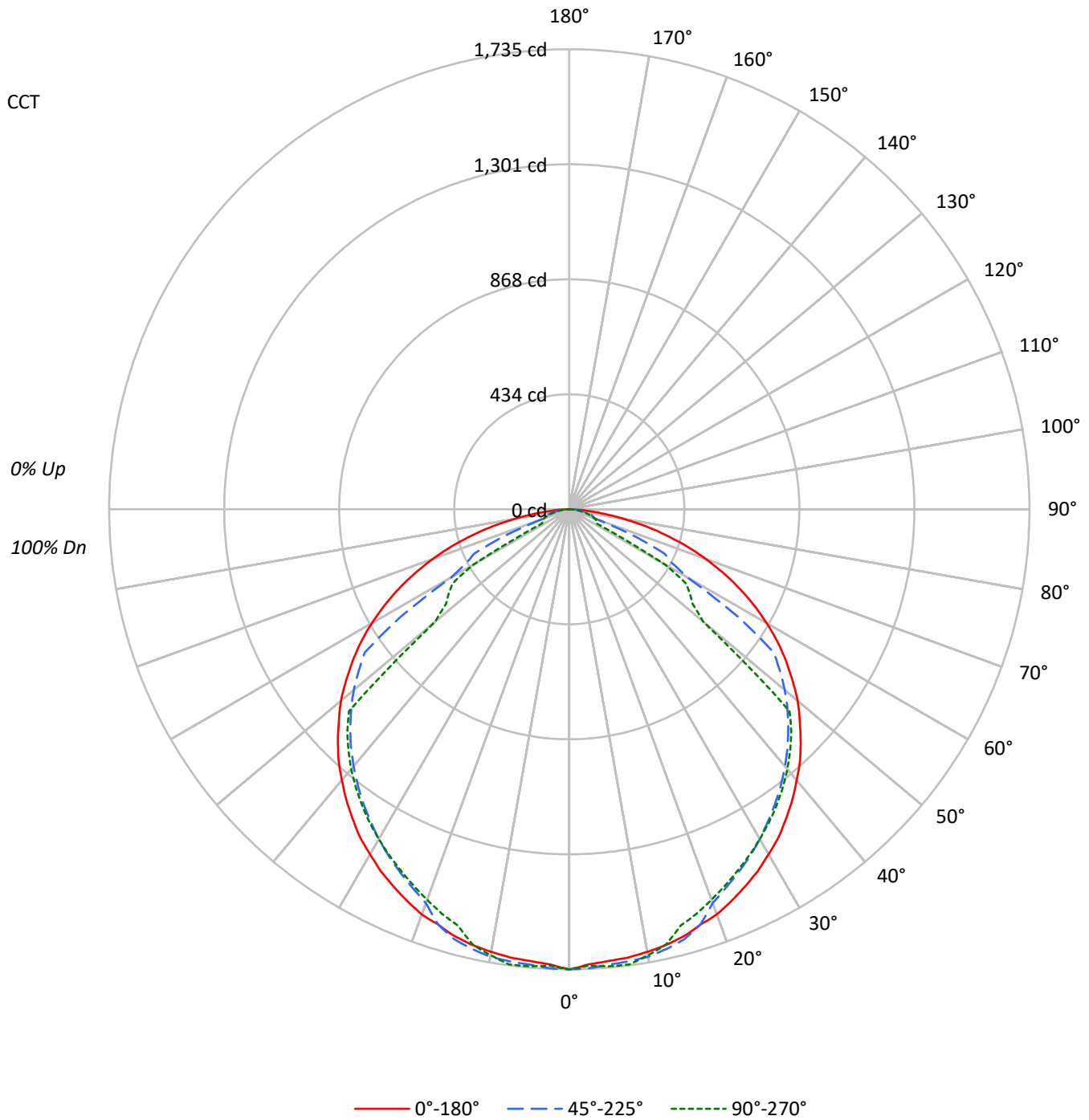
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4417.0 lumens
Efficiency: N/A
Efficacy: 131.1 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

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Luminous Intensity Polar Plot





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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°	45308	45308	45308
5°	44810	45172	45350
10°	44936	45431	45275
15°	45071	45363	43927
20°	45182	43923	43540
25°	45201	43501	43303
30°	45287	43300	43300
35°	45402	43145	43425
40°	45465	43117	43587
45°	45547	43114	43697
50°	45669	43074	26770
55°	45404	42809	25253
60°	44895	26714	21831
65°	43818	24494	6925
70°	41831	7809	7809
75°	38110	8736	7737
80°	31213	8871	7097
85°	22107	8837	6470

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 45669 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.2	3.7
10°-20°	468.6	10.6
20°-30°	706.5	16.0
30°-40°	858.5	19.4
40°-50°	904.3	20.5
50°-60°	710.1	16.1
60°-70°	399.6	9.0
70°-80°	166.4	3.8
80°-90°	38.9	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°	1339.3	30.3
0°-40°	2197.8	49.8
0°-60°	3812.2	86.3
0°-90°	4417.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4417.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1735	1735	1735	1735	1735	
5°	1710	1730	1724	1723	1730	163
15°	1668	1687	1678	1628	1625	471
25°	1569	1581	1510	1501	1503	724
35°	1424	1376	1354	1358	1362	892
45°	1234	1165	1168	1182	1184	952
55°	998	926	940	551	555	891
65°	709	652	396	107	112	700
75°	378	226	87	80	77	399
85°	74	32	30	25	22	94
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1735.4	1735.4	1735.4	1735.4	1735.4
2.5°	1717.7	1742.3	1732.4	1722.6	1722.6
5°	1709.8	1729.5	1723.6	1722.6	1730.4
7.5°	1704.9	1721.6	1719.6	1721.6	1731.4
10°	1695.0	1713.7	1713.7	1706.8	1707.8
12.5°	1683.2	1701.9	1698.0	1686.2	1682.2
15°	1667.5	1687.2	1678.3	1628.1	1625.2
17.5°	1642.9	1666.5	1642.9	1595.7	1598.6
20°	1626.2	1643.9	1580.9	1565.2	1567.1
22.5°	1598.6	1614.4	1544.5	1533.7	1535.7
25°	1569.1	1580.9	1510.1	1501.2	1503.2
27.5°	1538.6	1541.6	1474.7	1468.8	1470.7
30°	1502.2	1489.4	1436.3	1432.4	1436.3
32.5°	1467.8	1438.3	1395.0	1396.0	1400.9
35°	1424.5	1376.3	1353.7	1357.6	1362.5
37.5°	1381.2	1323.2	1310.4	1318.3	1322.2
40°	1334.0	1272.0	1265.1	1273.0	1278.9
42.5°	1287.8	1219.9	1217.9	1229.7	1232.7
45°	1233.6	1164.8	1167.7	1181.5	1183.5
47.5°	1178.6	1108.7	1115.6	1128.4	1126.4
50°	1124.4	1049.7	1060.5	1041.8	659.1
52.5°	1060.5	988.7	1000.5	620.8	585.3
55°	997.5	925.7	940.5	550.9	554.8
57.5°	931.6	859.8	751.6	518.4	522.4
60°	859.8	792.9	511.6	485.0	418.1
62.5°	786.0	723.1	433.8	272.5	115.1
65°	709.3	652.2	396.5	107.2	112.1
67.5°	628.6	580.4	271.5	104.3	109.2
70°	548.0	450.6	102.3	100.3	102.3
72.5°	464.3	352.2	95.4	91.5	90.5
75°	377.8	226.3	86.6	79.7	76.7
77.5°	295.1	130.8	73.8	65.9	62.0
80°	207.6	66.9	59.0	50.2	47.2
82.5°	134.8	49.2	43.3	37.4	35.4
85°	73.8	32.5	29.5	24.6	21.6
87.5°	32.5	19.7	16.7	12.8	9.8
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	25.91	27.47	26.28	27.79	28.10	22.30	23.86	22.66	24.17	24.49
	3H	27.83	29.23	28.21	29.55	29.92	22.44	23.84	22.82	24.16	24.52
	4H	28.43	29.74	28.83	30.08	30.46	22.55	23.86	22.95	24.21	24.59
	6H	28.80	30.00	29.21	30.37	30.76	22.65	23.86	23.07	24.23	24.62
	8H	28.90	30.05	29.32	30.44	30.84	22.68	23.84	23.11	24.23	24.63
	12H	28.96	30.06	29.39	30.44	30.87	22.70	23.81	23.13	24.19	24.62
4H	2H	26.06	27.37	26.46	27.72	28.09	22.98	24.29	23.38	24.64	25.01
	3H	28.08	29.16	28.49	29.56	29.96	23.18	24.26	23.59	24.66	25.06
	4H	28.74	29.71	29.17	30.12	30.56	23.33	24.31	23.77	24.72	25.16
	6H	29.16	30.00	29.61	30.44	30.90	23.50	24.34	23.95	24.78	25.24
	8H	29.28	30.07	29.75	30.51	30.98	23.55	24.33	24.01	24.78	25.25
	12H	29.37	30.08	29.86	30.56	31.03	23.59	24.29	24.07	24.77	25.24
8H	4H	28.68	29.46	29.14	29.91	30.37	23.56	24.35	24.02	24.79	25.26
	6H	29.10	29.75	29.60	30.24	30.72	23.77	24.42	24.27	24.91	25.39
	8H	29.24	29.82	29.75	30.33	30.82	23.85	24.44	24.37	24.95	25.44
	12H	29.36	29.88	29.87	30.37	30.94	23.94	24.46	24.45	24.95	25.51
12H	4H	28.65	29.35	29.13	29.83	30.30	23.57	24.28	24.06	24.76	25.23
	6H	29.06	29.65	29.57	30.16	30.64	23.79	24.38	24.30	24.89	25.37
	8H	29.23	29.74	29.73	30.24	30.80	23.92	24.44	24.43	24.93	25.49