

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: P892844

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892844
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-5HL-LVR-UNV-L950
Description: 5000 Lumen 2FT MICROBAY LINEAR BAY with LOUVER, 90CRI, 5000K CCT
Light Source: -
Ballast/Driver: -

Summary

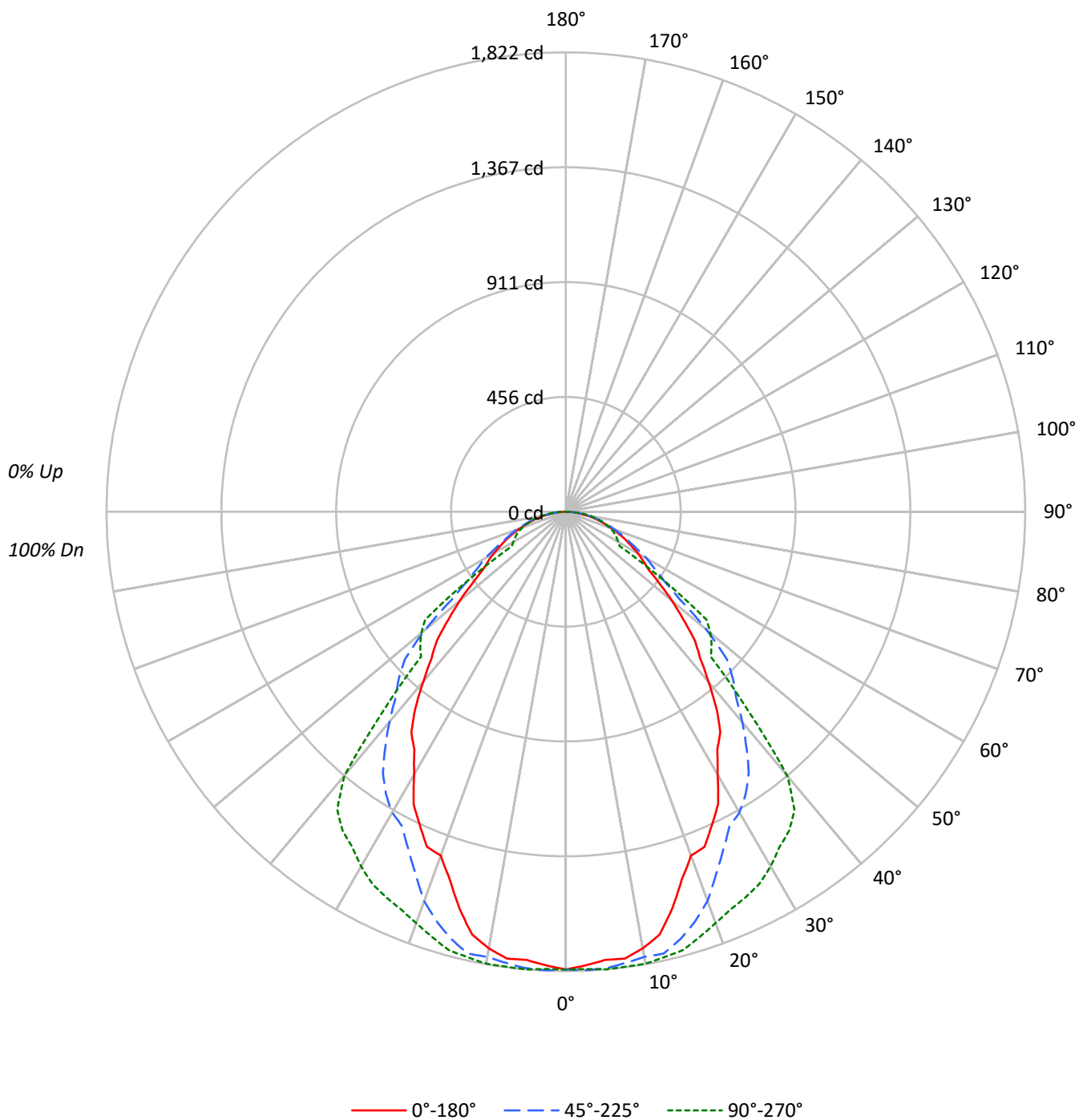
Lumens per Lamp: N/A
Luminaire Lumens: 3700.0 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.32 / 1.24
Luminous Opening: Rectangular (W 0.38' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 33.7
Input Voltage (V): 120
Input Current (Ain): 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			
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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	110	106	102	99	108	104	101	98	100	97	94		96	94	92		92	91	89	87
2	102	95	89	84	99	93	87	83	89	85	81		86	82	79		83	80	77	75
3	94	85	77	72	92	83	76	71	80	75	70		78	73	69		75	71	68	66
4	87	76	68	62	85	75	68	62	72	66	61		70	65	60		68	63	60	58
5	81	69	61	55	79	68	60	55	66	59	54		64	58	53		62	57	53	51
6	75	63	55	49	73	62	54	49	60	53	48		59	52	48		57	52	47	46
7	70	57	49	44	68	57	49	44	55	48	43		54	48	43		53	47	43	41
8	65	53	45	40	64	52	45	39	51	44	39		50	44	39		49	43	39	37
9	61	49	41	36	60	48	41	36	47	40	36		46	40	36		45	40	35	34
10	58	45	38	33	56	45	38	33	44	37	33		43	37	33		42	37	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25973	25973	25973
5°	25629	26098	26160
10°	25538	26037	26436
15°	24129	25986	26648
20°	22094	25011	26424
25°	21632	23329	26625
30°	19885	22753	26826
35°	18653	22090	26966
40°	16415	20331	25513
45°	14655	18967	16446
50°	12220	16255	16656
55°	10009	11787	11722
60°	9465	10595	6884
65°	8784	9221	7328
70°	8123	8625	7692
75°	7600	8219	7932
80°	6937	7645	8279
85°	6204	6631	9175

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 18967 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.6	4.7
10°-20°	485.8	13.1
20°-30°	700.7	18.9
30°-40°	794.8	21.5
40°-50°	661.9	17.9
50°-60°	427.8	11.6
60°-70°	253.6	6.9
70°-80°	154.6	4.2
80°-90°	48.3	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°	1359.0	36.7
0°-40°	2153.8	58.2
0°-60°	3243.5	87.7
0°-90°	3700.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3700.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1816	1816	1816	1816	1816	
5°	1785	1806	1817	1828	1822	170
15°	1629	1682	1755	1783	1799	454
25°	1370	1419	1478	1676	1687	627
35°	1068	1105	1265	1435	1544	657
45°	724	775	938	862	813	550
55°	401	440	473	568	470	374
65°	260	266	272	242	216	258
75°	138	141	149	156	144	146
85°	38	38	40	46	56	43
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1815.6	1815.6	1815.6	1815.6	1815.6
2.5°	1801.0	1817.4	1819.9	1834.5	1814.8
5°	1784.7	1806.2	1817.4	1827.7	1821.7
7.5°	1787.3	1799.3	1805.3	1823.4	1819.9
10°	1758.1	1782.1	1792.4	1813.9	1819.9
12.5°	1717.7	1748.6	1795.0	1790.7	1808.8
15°	1629.2	1682.5	1754.6	1783.0	1799.3
17.5°	1529.5	1588.8	1703.9	1771.0	1767.5
20°	1451.3	1496.0	1642.9	1737.5	1735.7
22.5°	1438.4	1448.7	1556.1	1714.3	1707.4
25°	1370.5	1418.7	1478.0	1675.6	1686.8
27.5°	1307.8	1350.8	1405.8	1626.6	1663.6
30°	1203.8	1277.7	1377.4	1574.2	1624.0
32.5°	1117.9	1189.2	1327.6	1509.7	1576.8
35°	1068.1	1105.0	1264.9	1435.0	1544.1
37.5°	980.4	1049.2	1176.3	1347.3	1489.1
40°	879.0	958.1	1088.7	1270.0	1366.2
42.5°	788.8	852.4	999.3	1123.9	1072.4
45°	724.4	775.1	937.5	861.9	812.9
47.5°	631.6	696.0	866.1	708.0	783.7
50°	549.1	604.9	730.4	669.4	748.4
52.5°	469.2	522.4	565.4	631.6	703.7
55°	401.3	439.9	472.6	568.0	470.0
57.5°	364.3	376.4	413.3	405.6	253.5
60°	330.8	336.0	370.3	274.1	240.6
62.5°	293.0	302.5	316.2	256.9	227.7
65°	259.5	266.4	272.4	242.3	216.5
67.5°	226.8	233.7	239.7	225.1	202.8
70°	194.2	198.5	206.2	202.8	183.9
72.5°	165.0	168.4	177.9	180.4	165.8
75°	137.5	140.9	148.7	156.4	143.5
77.5°	110.8	113.4	122.0	128.0	123.7
80°	84.2	88.5	92.8	100.5	100.5
82.5°	61.9	62.7	67.0	74.8	78.2
85°	37.8	37.8	40.4	46.4	55.9
87.5°	16.3	16.3	18.0	19.8	28.4
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	18.67	20.13	19.03	20.44	20.76	18.64	20.10	19.00	20.41	20.73
	3H	20.27	21.57	20.64	21.90	22.26	20.12	21.42	20.49	21.75	22.11
	4H	20.87	22.10	21.27	22.45	22.83	20.82	22.04	21.22	22.39	22.77
	6H	21.33	22.46	21.75	22.83	23.22	21.44	22.57	21.85	22.93	23.33
	8H	21.49	22.57	21.92	22.96	23.36	21.68	22.76	22.11	23.15	23.55
	12H	21.60	22.62	22.03	23.01	23.44	21.88	22.91	22.32	23.30	23.73
4H	2H	19.26	20.49	19.66	20.84	21.22	19.24	20.47	19.64	20.82	21.20
	3H	21.08	22.10	21.50	22.50	22.90	21.00	22.01	21.41	22.41	22.81
	4H	21.82	22.73	22.25	23.15	23.59	21.86	22.78	22.30	23.19	23.63
	6H	22.41	23.20	22.87	23.65	24.11	22.62	23.41	23.08	23.86	24.32
	8H	22.61	23.35	23.08	23.80	24.27	22.92	23.66	23.39	24.11	24.57
	12H	22.76	23.42	23.24	23.90	24.37	23.18	23.84	23.66	24.32	24.79
8H	4H	22.13	22.88	22.60	23.32	23.79	22.18	22.92	22.64	23.36	23.83
	6H	22.86	23.47	23.35	23.96	24.44	23.08	23.69	23.58	24.18	24.66
	8H	23.14	23.69	23.65	24.20	24.69	23.47	24.02	23.98	24.53	25.02
	12H	23.36	23.84	23.87	24.34	24.90	23.82	24.31	24.33	24.80	25.37
12H	4H	22.17	22.83	22.65	23.31	23.78	22.20	22.86	22.68	23.34	23.81
	6H	22.92	23.48	23.44	23.99	24.48	23.13	23.68	23.65	24.19	24.68
	8H	23.26	23.75	23.77	24.24	24.81	23.58	24.07	24.09	24.57	25.13