

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: P893726

Luminaire Tested: 4MB-6SL-ASYMR-UNV-L935

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893726
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2410-248-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4MB-6SL-ASYMR-UNV-L935
Description: 6000 Lumen 4FT MICROBAY LINEAR BAY with ASYMMERIC REFLECTOR, 90CRI, 3500K CCT
Light Source: -
Ballast/Driver: -

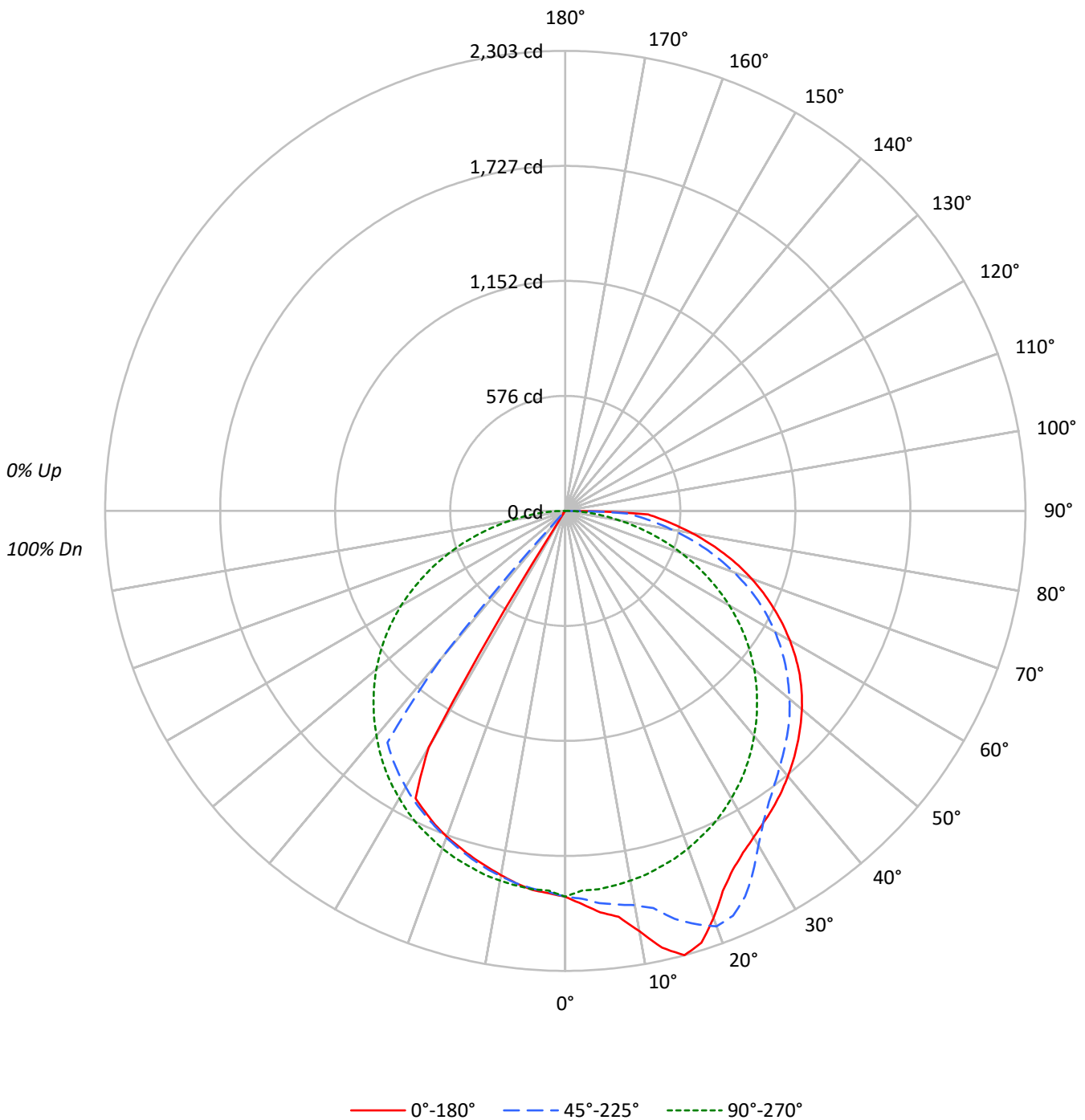
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5225.0 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.28 / 1.25
Luminous Opening: Rectangular (W 0.21' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 44.4
Input Voltage (V):
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 4
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	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	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	85	85	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	71	71	71	69
3	90	79	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	61	61	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	53	53	53	50
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	46	46	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	41	41	41	39
7	66	52	44	37	64	51	43	37	50	42	37	48	42	37	47	41	36	36	36	36	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	33	33	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	30	30	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	32	27	27	27	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	25077	25077	25077	25077	25077
5°	26296	25691	24783	24740	24826
10°	28176	26426	24778	24487	24413
15°	30957	28430	24786	24251	24132
20°	29972	30583	24851	24057	23981
25°	28398	30522	24911	23977	23802
30°	28275	28973	24909	23947	20498
35°	28754	28175	24949	23951	281
40°	29379	28310	24916	16517	188
45°	30183	28882	24921	305	121
50°	31237	29605	24936	224	44
55°	32426	30449	24864	149	25
60°	33722	31481	24646	57	29
65°	35310	32726	24196	68	68
70°	37666	34097	23433	84	84
75°	41230	36293	22416	221	110
80°	48381	40612	20758	329	165
85°	72005	57017	19443	492	328

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 123482 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.1	3.5
10°-20°	552.5	10.6
20°-30°	849.3	16.3
30°-40°	910.2	17.4
40°-50°	826.7	15.8
50°-60°	754.1	14.4
60°-70°	561.0	10.7
70°-80°	394.8	7.6
80°-90°	191.3	3.7
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°	1586.9	30.4
0°-40°	2497.2	47.8
0°-60°	4077.9	78.0
0°-90°	5225.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5225.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1931	1931	1931	1931	1931	
5°	2017	1971	1901	1898	1905	195
15°	2303	2115	1844	1804	1795	636
25°	1982	2130	1739	1674	1661	922
35°	1814	1777	1574	1511	18	1136
45°	1644	1573	1357	17	7	1270
55°	1432	1345	1098	7	1	1279
65°	1149	1065	788	2	2	1138
75°	822	723	447	4	2	867
85°	483	383	130	3	2	486
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2	1931.2
2.5°	1971.0	1948.9	1943.3	1958.8	1902.4	1940.0	1909.1	1915.7	1915.7
5°	2017.4	1986.5	1971.0	1966.6	1901.3	1926.7	1898.0	1898.0	1904.6
7.5°	2049.5	2015.2	1987.6	1976.5	1891.4	1913.5	1880.3	1880.3	1880.3
10°	2136.9	2072.7	2004.2	1984.3	1879.2	1895.8	1857.1	1859.3	1851.5
12.5°	2239.8	2182.2	2036.2	1980.9	1865.9	1873.7	1832.7	1831.6	1822.8
15°	2302.8	2259.7	2114.8	1976.5	1843.8	1850.4	1804.0	1800.7	1795.1
17.5°	2267.4	2260.8	2169.0	1973.2	1823.9	1818.4	1771.9	1768.6	1764.2
20°	2169.0	2185.6	2213.2	1966.6	1798.4	1787.4	1740.9	1738.7	1735.4
22.5°	2059.5	2076.1	2193.3	1977.6	1767.5	1754.2	1707.7	1705.5	1701.1
25°	1982.1	1982.1	2130.3	2004.2	1738.7	1714.4	1673.5	1670.1	1661.3
27.5°	1927.9	1917.9	2036.2	2034.0	1702.2	1674.6	1637.0	1633.6	1622.6
30°	1885.8	1869.2	1932.3	2048.4	1661.3	1631.4	1597.1	1593.8	1367.1
32.5°	1848.2	1830.5	1844.9	2060.6	1620.4	1585.0	1555.1	1109.4	48.7
35°	1813.9	1794.0	1777.4	2051.7	1573.9	1538.5	1510.9	32.1	17.7
37.5°	1775.2	1759.7	1722.1	2005.3	1524.1	1488.8	1462.2	17.7	15.5
40°	1733.2	1718.8	1670.1	1936.7	1469.9	1440.1	974.4	15.5	11.1
42.5°	1690.1	1679.0	1621.5	1837.2	1415.8	1385.9	31.0	12.2	8.8
45°	1643.6	1633.6	1572.8	1716.6	1357.1	1329.5	16.6	8.8	6.6
47.5°	1596.0	1581.7	1521.9	1587.2	1297.4	1269.8	14.4	6.6	4.4
50°	1546.3	1530.8	1465.5	1473.3	1234.4	1206.7	11.1	4.4	2.2
52.5°	1491.0	1472.2	1405.8	1370.4	1168.0	1142.6	8.8	2.2	1.1
55°	1432.3	1411.3	1345.0	1280.8	1098.3	1069.6	6.6	2.2	1.1
57.5°	1367.1	1343.9	1280.8	1195.6	1024.2	723.4	4.4	2.2	1.1
60°	1298.5	1275.3	1212.2	1116.0	949.0	49.8	2.2	2.2	1.1
62.5°	1225.5	1201.2	1140.3	1035.3	868.3	40.9	2.2	2.2	2.2
65°	1149.2	1120.4	1065.1	952.3	787.5	34.3	2.2	2.2	2.2
67.5°	1072.9	1036.4	984.4	867.1	704.6	28.8	2.2	2.2	2.2
70°	992.1	952.3	898.1	780.9	617.2	23.2	2.2	2.2	2.2
72.5°	909.2	870.5	811.8	693.5	535.3	17.7	2.2	2.2	2.2
75°	821.8	786.4	723.4	606.1	446.8	13.3	4.4	2.2	2.2
77.5°	731.1	703.5	632.7	516.5	360.6	8.8	4.4	2.2	2.2
80°	647.0	616.1	543.1	425.8	277.6	6.6	4.4	3.3	2.2
82.5°	560.8	533.1	460.1	342.9	199.1	5.5	4.4	3.3	2.2
85°	483.3	456.8	382.7	267.7	130.5	4.4	3.3	3.3	2.2
87.5°	414.8	390.4	317.4	195.8	74.1	3.3	3.3	3.3	2.2
90°	0.0	0.0	0.0	0.0	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	25.73	27.34	26.09	27.65	27.97	21.16	22.77	21.52	23.09	23.40
	3H	28.17	29.64	28.55	29.96	30.32	21.80	23.27	22.18	23.59	23.95
	4H	29.30	30.68	29.70	31.03	31.40	21.95	23.33	22.34	23.68	24.05
	6H	30.39	31.67	30.80	32.04	32.43	21.99	23.27	22.40	23.63	24.03
	8H	30.92	32.15	31.34	32.54	32.94	21.97	23.20	22.40	23.59	23.99
	12H	31.49	32.67	31.92	33.05	33.48	21.96	23.13	22.39	23.52	23.94
4H	2H	26.38	27.77	26.78	28.11	28.49	22.29	23.67	22.68	24.02	24.39
	3H	29.07	30.24	29.48	30.64	31.04	23.63	24.80	24.04	25.19	25.59
	4H	30.37	31.43	30.80	31.84	32.28	24.16	25.23	24.59	25.64	26.07
	6H	31.65	32.58	32.10	33.02	33.48	24.44	25.37	24.89	25.81	26.27
	8H	32.28	33.15	32.74	33.59	34.06	24.48	25.35	24.94	25.79	26.26
	12H	32.96	33.75	33.44	34.23	34.70	24.49	25.28	24.97	25.75	26.22
8H	4H	30.73	31.61	31.19	32.05	32.51	25.11	25.99	25.57	26.43	26.89
	6H	32.21	32.95	32.71	33.44	33.91	25.70	26.44	26.19	26.92	27.40
	8H	33.00	33.66	33.50	34.17	34.65	25.88	26.54	26.39	27.05	27.53
	12H	33.89	34.48	34.39	34.97	35.53	25.98	26.57	26.49	27.06	27.62
12H	4H	30.77	31.56	31.25	32.04	32.51	25.33	26.12	25.81	26.59	27.06
	6H	32.30	32.97	32.81	33.47	33.96	26.05	26.72	26.56	27.22	27.71
	8H	33.18	33.77	33.69	34.26	34.82	26.36	26.95	26.87	27.44	28.00