

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: P893774

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893774
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2408-210-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4MB-6SL-RFLW-UNV-L935
Description: 6000 Lumen 4FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 90CRI, 3500K
Light Source: -
Ballast/Driver: -

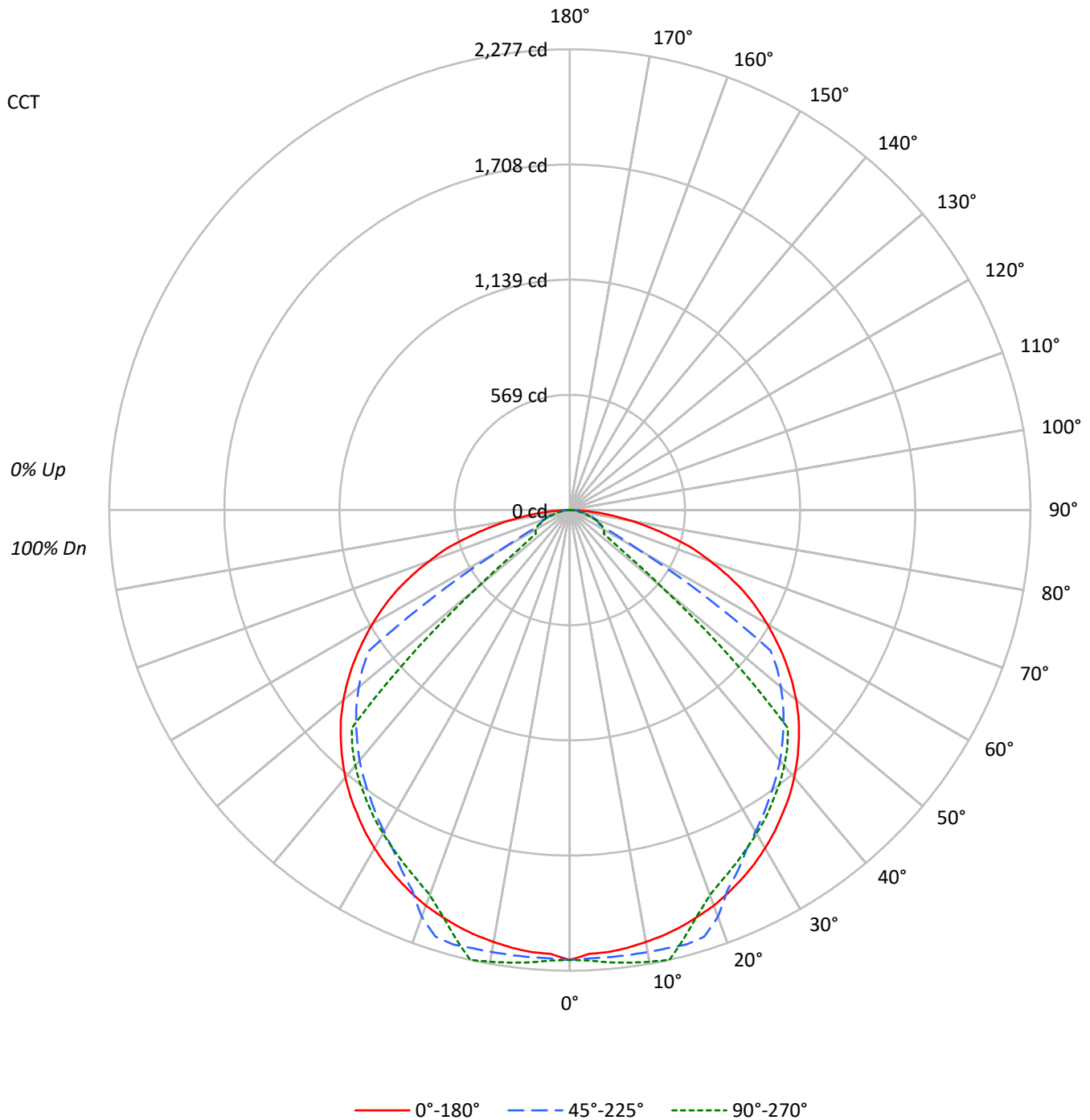
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5423.0 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.24 / 1.38
Luminous Opening: Rectangular (W 0.21' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 44.4
Input Voltage (V): 120
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	110	106	102	99	108	104	101	98	100	97	94	96	94	92	92	91	89	89	89	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	77	77	77	75
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	66	66	66	64
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	58	58	58	56
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	61	55	51	51	51	51	49
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	45	45	45	43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	40	40	40	38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	36	36	36	35
9	60	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	33	33	33	31
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	30	30	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	28872	28872	28872
5°	28584	28916	29249
10°	28578	29250	29889
15°	28657	29891	29411
20°	28752	29562	27977
25°	28824	28166	27692
30°	28941	27527	27680
35°	29061	27365	27768
40°	29262	27403	27965
45°	29406	27439	28001
50°	29516	27506	12105
55°	29439	27420	4618
60°	29268	10463	5033
65°	29066	4858	5171
70°	28076	5228	4841
75°	26224	4987	4219
80°	23069	4382	3619
85°	18236	3799	3039

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 29516 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.3	3.9
10°-20°	616.6	11.4
20°-30°	920.0	17.0
30°-40°	1115.1	20.6
40°-50°	1141.8	21.1
50°-60°	759.3	14.0
60°-70°	432.8	8.0
70°-80°	181.8	3.4
80°-90°	43.3	0.8
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°	1748.9	32.2
0°-40°	2864.0	52.8
0°-60°	4765.1	87.9
0°-90°	5423.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5423.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2224	2224	2224	2224	2224	
5°	2193	2236	2218	2224	2244	209
15°	2132	2190	2224	2216	2188	602
25°	2012	2109	1966	1923	1933	928
35°	1833	1866	1726	1734	1752	1148
45°	1601	1504	1494	1512	1525	1235
55°	1300	1191	1211	265	204	1161
65°	946	847	158	168	168	931
75°	523	110	99	87	84	555
85°	122	31	26	20	20	147
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2223.5	2223.5	2223.5	2223.5	2223.5
2.5°	2195.4	2241.3	2218.4	2220.9	2228.6
5°	2192.9	2236.2	2218.4	2223.5	2243.9
7.5°	2182.7	2228.6	2218.4	2233.7	2256.6
10°	2167.4	2220.9	2218.4	2243.9	2266.8
12.5°	2152.1	2205.6	2218.4	2256.6	2277.0
15°	2131.7	2190.3	2223.5	2215.8	2187.8
17.5°	2106.2	2175.0	2210.7	2101.1	2098.5
20°	2080.7	2154.6	2139.3	2034.8	2024.6
22.5°	2047.5	2134.2	2034.8	1963.4	1976.1
25°	2011.8	2108.7	1965.9	1922.6	1932.8
27.5°	1973.6	2083.2	1892.0	1876.7	1889.4
30°	1930.2	2047.5	1835.9	1830.8	1846.1
32.5°	1884.3	1978.7	1782.3	1784.9	1802.7
35°	1833.3	1866.5	1726.3	1733.9	1751.7
37.5°	1782.3	1761.9	1672.7	1685.5	1703.3
40°	1726.3	1680.4	1616.6	1629.4	1649.8
42.5°	1665.1	1593.7	1555.4	1573.3	1591.1
45°	1601.3	1504.4	1494.2	1512.1	1524.8
47.5°	1535.0	1427.9	1430.5	1443.2	1081.1
50°	1461.1	1351.4	1361.6	943.4	599.2
52.5°	1382.0	1272.4	1292.8	525.3	303.4
55°	1300.4	1190.8	1211.2	265.2	204.0
57.5°	1213.7	1109.2	790.5	191.2	201.4
60°	1127.0	1022.5	402.9	188.7	193.8
62.5°	1037.8	935.8	191.2	181.0	183.6
65°	946.0	846.6	158.1	168.3	168.3
67.5°	844.0	752.2	150.4	150.4	147.9
70°	739.5	624.7	137.7	130.0	127.5
72.5°	642.6	239.7	119.8	107.1	104.5
75°	522.7	109.6	99.4	86.7	84.1
77.5°	415.6	91.8	79.0	68.8	66.3
80°	308.5	71.4	58.6	51.0	48.4
82.5°	214.2	48.4	40.8	33.1	33.1
85°	122.4	30.6	25.5	20.4	20.4
87.5°	48.4	15.3	12.7	7.6	7.6
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	24.61	26.13	24.97	26.44	26.76	12.37	13.89	12.74	14.21	14.52
	3H	26.63	27.99	27.01	28.32	28.68	14.69	16.05	15.07	16.38	16.74
	4H	27.09	28.36	27.49	28.71	29.09	15.40	16.67	15.80	17.02	17.40
	6H	27.50	28.67	27.91	29.04	29.43	15.89	17.06	16.30	17.42	17.82
	8H	27.65	28.76	28.07	29.15	29.55	16.02	17.14	16.45	17.53	17.93
	12H	27.75	28.81	28.18	29.20	29.63	16.11	17.18	16.54	17.56	17.99
4H	2H	24.45	25.72	24.85	26.07	26.45	13.17	14.44	13.57	14.79	15.17
	3H	26.65	27.70	27.07	28.10	28.50	15.68	16.73	16.09	17.13	17.53
	4H	27.10	28.04	27.53	28.46	28.90	16.50	17.44	16.94	17.86	18.30
	6H	27.57	28.38	28.03	28.83	29.29	17.10	17.91	17.55	18.35	18.81
	8H	27.76	28.52	28.22	28.96	29.43	17.26	18.03	17.73	18.47	18.94
	12H	27.91	28.59	28.39	29.07	29.54	17.38	18.06	17.86	18.54	19.01
8H	4H	27.02	27.78	27.48	28.23	28.69	17.34	18.10	17.81	18.55	19.02
	6H	27.48	28.11	27.98	28.60	29.08	17.96	18.59	18.46	19.08	19.56
	8H	27.68	28.24	28.19	28.75	29.24	18.16	18.73	18.68	19.24	19.73
	12H	27.86	28.37	28.37	28.86	29.42	18.32	18.82	18.83	19.31	19.88
12H	4H	26.99	27.67	27.47	28.15	28.62	17.41	18.09	17.90	18.57	19.04
	6H	27.43	28.00	27.95	28.51	29.00	18.06	18.62	18.57	19.13	19.62
	8H	27.66	28.16	28.17	28.65	29.21	18.31	18.81	18.82	19.30	19.87