

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: P893773

Luminaire Tested: 4MB-6SL-RFLW-UNV-L930

Issue Date: 11/11/2024

**Test Information**

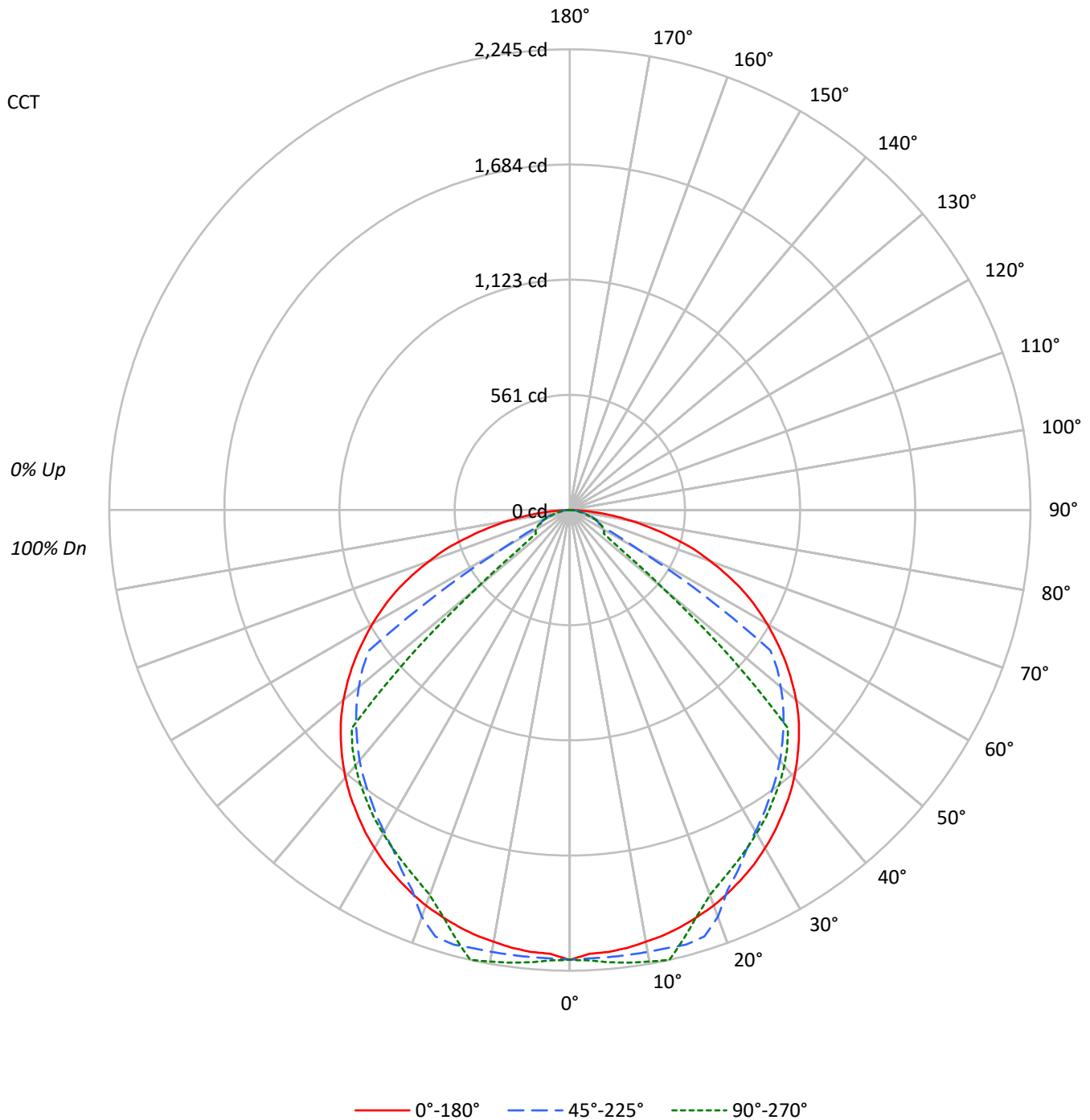
Test Method: LM-79-2019  
Report Number: P893773  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2408-210-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 4MB-6SL-RFLW-UNV-L930  
Description: 6000 Lumen 4FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 90CRI, 3000K  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5346.0 lumens  
Efficiency: N/A  
Efficacy: 120.4 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<sub>in</sub>): 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°	28462	28462	28462
5°	28177	28506	28833
10°	28172	28835	29464
15°	28249	29466	28993
20°	28343	29143	27579
25°	28416	27767	27298
30°	28530	27136	27287
35°	28649	26975	27375
40°	28845	27015	27567
45°	28989	27050	27604
50°	29096	27116	11933
55°	29023	27031	4553
60°	28853	10315	4960
65°	28654	4787	5097
70°	27677	5152	4772
75°	25853	4917	4164
80°	22747	4322	3574
85°	17983	3740	2995

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 50°  
 Luminance: 29096 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	209.3	3.9
10°-20°	607.8	11.4
20°-30°	906.9	17.0
30°-40°	1099.3	20.6
40°-50°	1125.6	21.1
50°-60°	748.5	14.0
60°-70°	426.6	8.0
70°-80°	179.2	3.4
80°-90°	42.7	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°	1724.0	32.2
0°-40°	2823.3	52.8
0°-60°	4697.4	87.9
0°-90°	5346.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5346.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2192	2192	2192	2192	2192	
5°	2162	2204	2187	2192	2212	206
15°	2101	2159	2192	2184	2157	594
25°	1983	2079	1938	1895	1905	915
35°	1807	1840	1702	1709	1727	1132
45°	1579	1483	1473	1491	1503	1218
55°	1282	1174	1194	261	201	1145
65°	933	834	156	166	166	918
75°	515	108	98	86	83	547
85°	121	30	25	20	20	145
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2191.9	2191.9	2191.9	2191.9	2191.9
2.5°	2164.3	2209.5	2186.9	2189.4	2196.9
5°	2161.7	2204.5	2186.9	2191.9	2212.0
7.5°	2151.7	2196.9	2186.9	2202.0	2224.6
10°	2136.6	2189.4	2186.9	2212.0	2234.6
12.5°	2121.5	2174.3	2186.9	2224.6	2244.7
15°	2101.4	2159.2	2191.9	2184.4	2156.7
17.5°	2076.3	2144.1	2179.3	2071.2	2068.7
20°	2051.1	2124.0	2109.0	2005.9	1995.8
22.5°	2018.5	2103.9	2005.9	1935.5	1948.1
25°	1983.3	2078.8	1938.0	1895.3	1905.3
27.5°	1945.6	2053.7	1865.1	1850.0	1862.6
30°	1902.8	2018.5	1809.8	1804.8	1819.9
32.5°	1857.6	1950.6	1757.0	1759.6	1777.1
35°	1807.3	1840.0	1701.7	1709.3	1726.9
37.5°	1757.0	1736.9	1649.0	1661.5	1679.1
40°	1701.7	1656.5	1593.7	1606.2	1626.3
42.5°	1641.4	1571.0	1533.3	1550.9	1568.5
45°	1578.6	1483.1	1473.0	1490.6	1503.2
47.5°	1513.2	1407.6	1410.2	1422.7	1065.8
50°	1440.3	1332.2	1342.3	930.0	590.7
52.5°	1362.4	1254.3	1274.4	517.8	299.1
55°	1282.0	1173.9	1194.0	261.4	201.1
57.5°	1196.5	1093.4	779.2	188.5	198.6
60°	1111.0	1008.0	397.2	186.0	191.0
62.5°	1023.1	922.5	188.5	178.5	181.0
65°	932.6	834.5	155.8	165.9	165.9
67.5°	832.0	741.5	148.3	148.3	145.8
70°	729.0	615.8	135.7	128.2	125.7
72.5°	633.4	236.3	118.1	105.6	103.1
75°	515.3	108.1	98.0	85.5	83.0
77.5°	409.7	90.5	77.9	67.9	65.4
80°	304.2	70.4	57.8	50.3	47.8
82.5°	211.1	47.8	40.2	32.7	32.7
85°	120.7	30.2	25.1	20.1	20.1
87.5°	47.8	15.1	12.6	7.5	7.5
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	24.56	26.08	24.92	26.39	26.71	12.32	13.85	12.69	14.16	14.47
	3H	26.58	27.94	26.96	28.27	28.63	14.64	16.00	15.02	16.33	16.69
	4H	27.04	28.31	27.44	28.66	29.04	15.35	16.63	15.75	16.97	17.35
	6H	27.45	28.62	27.86	28.99	29.38	15.84	17.01	16.25	17.38	17.77
	8H	27.60	28.71	28.02	29.10	29.50	15.98	17.09	16.40	17.48	17.88
	12H	27.70	28.76	28.13	29.15	29.58	16.06	17.13	16.49	17.51	17.94
4H	2H	24.40	25.67	24.80	26.02	26.40	13.12	14.39	13.52	14.74	15.12
	3H	26.60	27.65	27.02	28.05	28.45	15.63	16.68	16.04	17.08	17.48
	4H	27.05	27.99	27.48	28.41	28.85	16.46	17.39	16.89	17.81	18.25
	6H	27.52	28.33	27.98	28.78	29.24	17.05	17.86	17.51	18.31	18.77
	8H	27.71	28.47	28.17	28.91	29.38	17.22	17.98	17.68	18.42	18.89
	12H	27.86	28.54	28.34	29.02	29.49	17.34	18.01	17.82	18.49	18.97
8H	4H	26.97	27.73	27.43	28.18	28.64	17.29	18.05	17.76	18.50	18.97
	6H	27.43	28.06	27.93	28.55	29.03	17.92	18.55	18.41	19.04	19.51
	8H	27.63	28.19	28.14	28.71	29.19	18.12	18.68	18.63	19.19	19.68
	12H	27.81	28.32	28.32	28.81	29.37	18.27	18.78	18.78	19.27	19.83
12H	4H	26.94	27.62	27.42	28.10	28.57	17.36	18.04	17.85	18.52	18.99
	6H	27.38	27.95	27.90	28.46	28.95	18.01	18.58	18.52	19.09	19.57
	8H	27.61	28.11	28.12	28.60	29.16	18.26	18.76	18.77	19.26	19.82