

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: P893775

Luminaire Tested: 4MB-6SL-RFLW-UNV-L940

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893775
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-L940
Description: 6000 Lumen 4FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 90CRI, 4000K
Light Source: -
Ballast/Driver: -

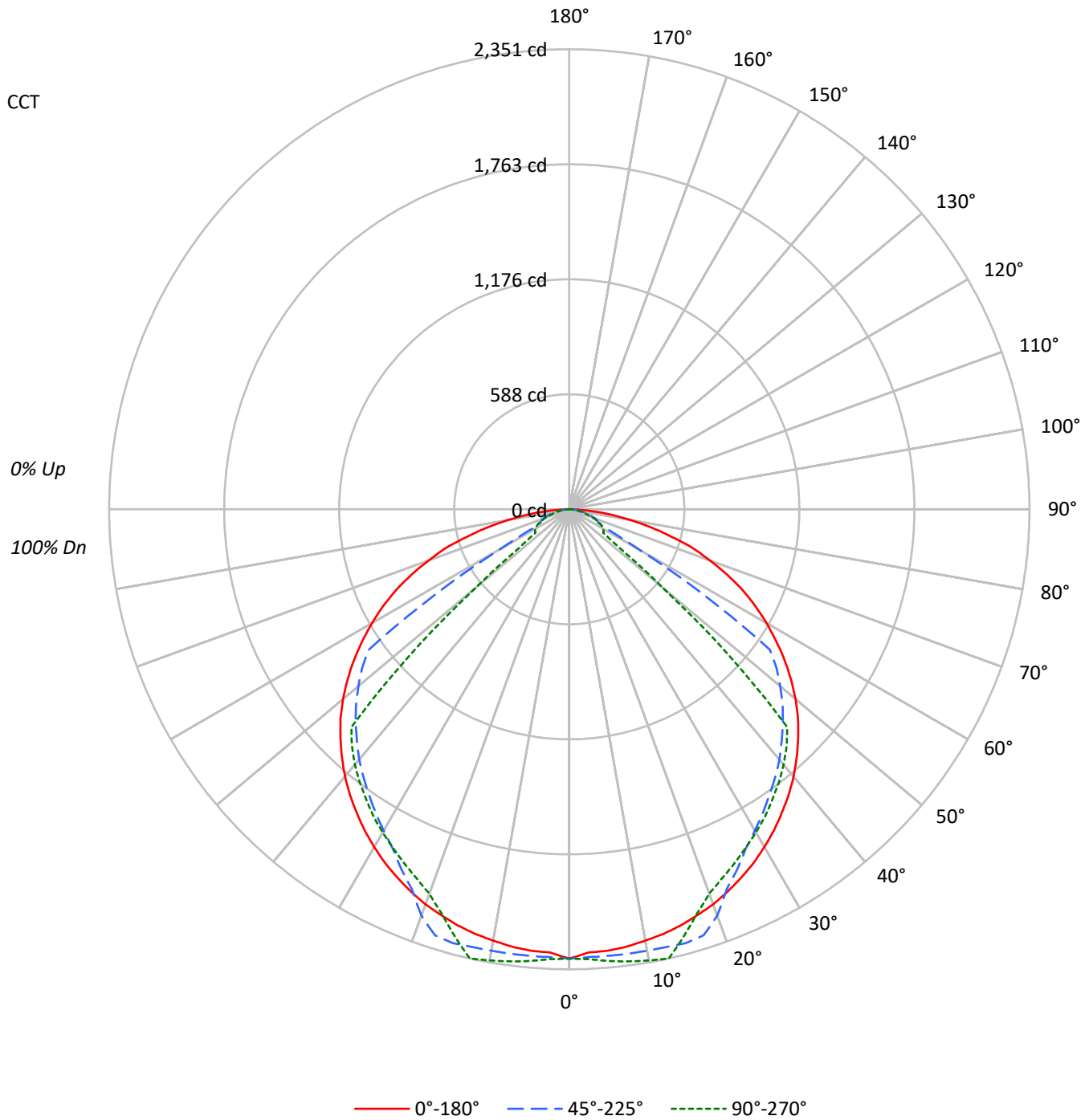
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5600.0 lumens
Efficiency: N/A
Efficacy: 126.1 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°	29814	29814	29814
5°	29516	29860	30203
10°	29510	30205	30864
15°	29592	30865	30371
20°	29690	30528	28890
25°	29765	29086	28596
30°	29886	28425	28583
35°	30011	28258	28674
40°	30217	28298	28877
45°	30366	28335	28915
50°	30480	28405	12500
55°	30402	28314	4768
60°	30224	10804	5197
65°	30016	5017	5340
70°	28991	5399	5000
75°	27082	5153	4360
80°	23824	4532	3739
85°	18832	3918	3144

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 30480 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.3	3.9
10°-20°	636.7	11.4
20°-30°	950.0	17.0
30°-40°	1151.5	20.6
40°-50°	1179.1	21.1
50°-60°	784.1	14.0
60°-70°	446.9	8.0
70°-80°	187.8	3.4
80°-90°	44.8	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°	1805.9	32.2
0°-40°	2957.4	52.8
0°-60°	4920.6	87.9
0°-90°	5600.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5600.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2296	2296	2296	2296	2296	
5°	2264	2309	2291	2296	2317	215
15°	2201	2262	2296	2288	2259	622
25°	2078	2178	2030	1985	1996	958
35°	1893	1927	1783	1790	1809	1186
45°	1654	1554	1543	1561	1575	1276
55°	1343	1230	1251	274	211	1199
65°	977	874	163	174	174	961
75°	540	113	103	90	87	573
85°	126	32	26	21	21	151
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2296.0	2296.0	2296.0	2296.0	2296.0
2.5°	2267.1	2314.5	2290.8	2293.4	2301.3
5°	2264.4	2309.2	2290.8	2296.0	2317.1
7.5°	2253.9	2301.3	2290.8	2306.6	2330.3
10°	2238.1	2293.4	2290.8	2317.1	2340.8
12.5°	2222.3	2277.6	2290.8	2330.3	2351.3
15°	2201.3	2261.8	2296.0	2288.1	2259.2
17.5°	2174.9	2246.0	2282.9	2169.7	2167.0
20°	2148.6	2224.9	2209.2	2101.2	2090.7
22.5°	2114.4	2203.9	2101.2	2027.5	2040.6
25°	2077.5	2177.6	2030.1	1985.3	1995.9
27.5°	2038.0	2151.2	1953.7	1937.9	1951.1
30°	1993.2	2114.4	1895.8	1890.5	1906.3
32.5°	1945.8	2043.3	1840.5	1843.2	1861.6
35°	1893.2	1927.4	1782.6	1790.5	1808.9
37.5°	1840.5	1819.5	1727.3	1740.5	1758.9
40°	1782.6	1735.2	1669.4	1682.5	1703.6
42.5°	1719.4	1645.7	1606.2	1624.6	1643.0
45°	1653.6	1553.5	1543.0	1561.4	1574.6
47.5°	1585.1	1474.5	1477.2	1490.3	1116.4
50°	1508.8	1395.5	1406.1	974.2	618.8
52.5°	1427.1	1313.9	1335.0	542.4	313.3
55°	1342.9	1229.6	1250.7	273.8	210.6
57.5°	1253.3	1145.4	816.3	197.5	208.0
60°	1163.8	1055.9	416.0	194.8	200.1
62.5°	1071.7	966.3	197.5	186.9	189.6
65°	976.9	874.2	163.3	173.8	173.8
67.5°	871.5	776.8	155.4	155.4	152.7
70°	763.6	645.1	142.2	134.3	131.7
72.5°	663.5	247.5	123.8	110.6	108.0
75°	539.8	113.2	102.7	89.5	86.9
77.5°	429.2	94.8	81.6	71.1	68.5
80°	318.6	73.7	60.6	52.7	50.0
82.5°	221.2	50.0	42.1	34.2	34.2
85°	126.4	31.6	26.3	21.1	21.1
87.5°	50.0	15.8	13.2	7.9	7.9
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	24.72	26.24	25.09	26.56	26.87	12.49	14.01	12.85	14.32	14.64
	3H	26.74	28.10	27.12	28.43	28.79	14.80	16.16	15.18	16.49	16.85
	4H	27.20	28.48	27.60	28.82	29.20	15.52	16.79	15.92	17.14	17.51
	6H	27.61	28.78	28.02	29.15	29.54	16.00	17.17	16.41	17.54	17.93
	8H	27.76	28.88	28.19	29.26	29.67	16.14	17.25	16.56	17.64	18.04
	12H	27.86	28.93	28.29	29.31	29.74	16.22	17.29	16.65	17.67	18.10
4H	2H	24.56	25.83	24.96	26.18	26.56	13.29	14.56	13.69	14.91	15.28
	3H	26.77	27.81	27.18	28.21	28.61	15.80	16.84	16.21	17.24	17.65
	4H	27.21	28.15	27.65	28.57	29.01	16.62	17.56	17.05	17.97	18.41
	6H	27.68	28.49	28.14	28.94	29.40	17.21	18.02	17.67	18.47	18.93
	8H	27.87	28.63	28.33	29.08	29.54	17.38	18.14	17.84	18.58	19.05
	12H	28.02	28.70	28.51	29.18	29.65	17.50	18.18	17.98	18.65	19.13
8H	4H	27.13	27.89	27.60	28.34	28.81	17.46	18.22	17.92	18.66	19.13
	6H	27.59	28.22	28.09	28.71	29.19	18.08	18.71	18.58	19.20	19.68
	8H	27.79	28.36	28.31	28.87	29.36	18.28	18.84	18.79	19.35	19.84
	12H	27.98	28.48	28.49	28.97	29.53	18.44	18.94	18.95	19.43	19.99
12H	4H	27.10	27.78	27.58	28.26	28.73	17.53	18.21	18.01	18.68	19.16
	6H	27.54	28.11	28.06	28.62	29.11	18.17	18.74	18.69	19.25	19.74
	8H	27.77	28.27	28.28	28.76	29.33	18.42	18.93	18.93	19.42	19.98