

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: P893776

Luminaire Tested: 4MB-6SL-RFLW-UNV-L950

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893776
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-L950
Description: 6000 Lumen 4FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 90CRI, 5000K
Light Source: -
Ballast/Driver: -

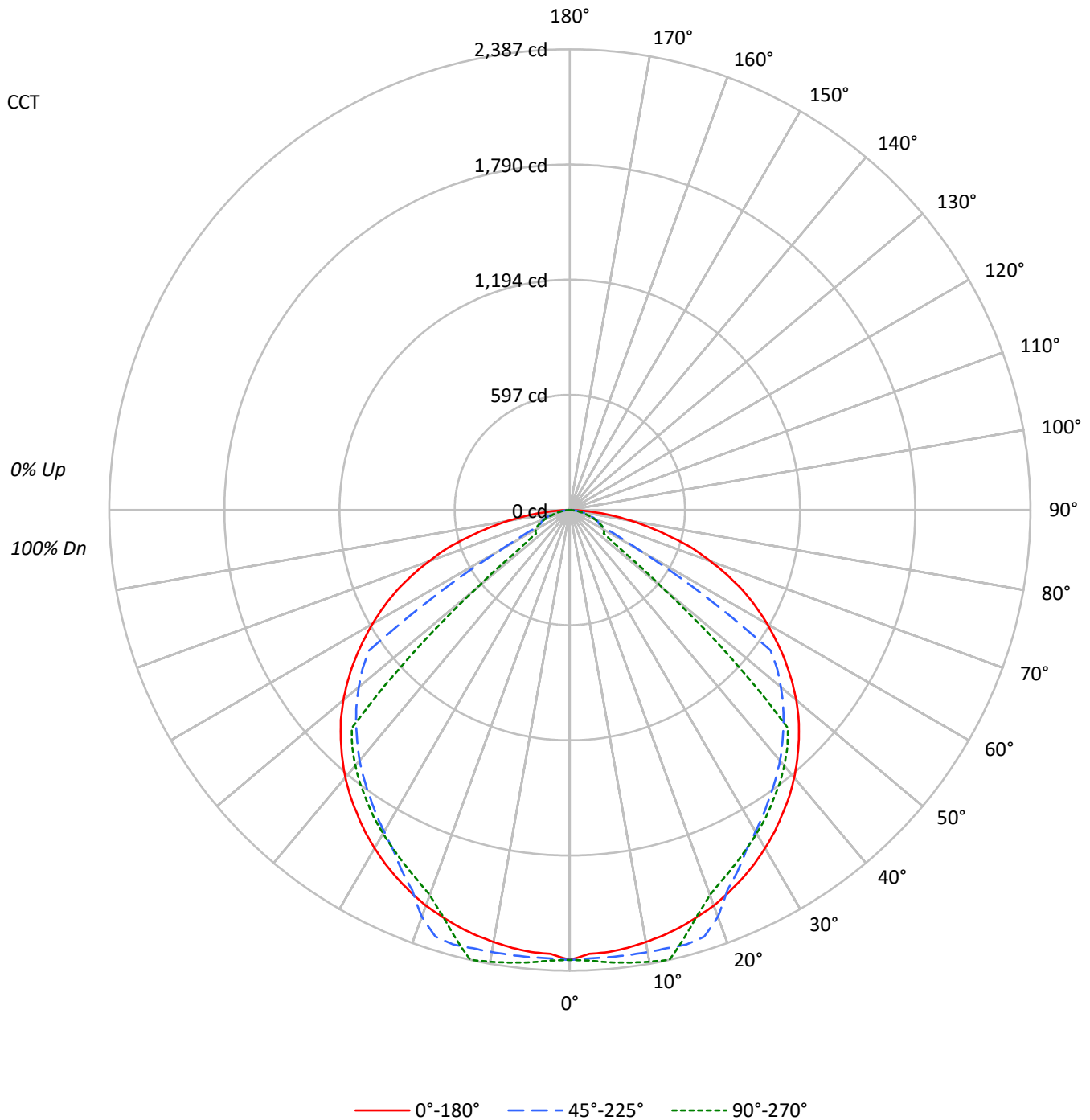
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5685.0 lumens
Efficiency: N/A
Efficacy: 128.0 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

TEST NUMBER: P893776
CATALOG NUMBER: 4MB-6SL-RFLW-UNV-L950

Luminous Intensity Polar Plot





TEST NUMBER: P893776

CATALOG NUMBER: 4MB-6SL-RFLW-UNV-L950

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°	30267	30267	30267
5°	29964	30312	30661
10°	29959	30663	31332
15°	30041	31335	30832
20°	30141	30991	29328
25°	30217	29527	29030
30°	30340	28857	29018
35°	30466	28687	29110
40°	30676	28727	29316
45°	30827	28765	29354
50°	30942	28835	12690
55°	30863	28744	4840
60°	30684	10967	5277
65°	30470	5091	5420
70°	29431	5478	5076
75°	27493	5228	4425
80°	24183	4599	3799
85°	19115	3978	3188

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 30942 cd/sqm



TEST NUMBER: P893776
 CATALOG NUMBER: 4MB-6SL-RFLW-UNV-L950

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.6	3.9
10°-20°	646.3	11.4
20°-30°	964.4	17.0
30°-40°	1169.0	20.6
40°-50°	1197.0	21.1
50°-60°	796.0	14.0
60°-70°	453.7	8.0
70°-80°	190.6	3.4
80°-90°	45.4	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°	1833.4	32.2
0°-40°	3002.3	52.8
0°-60°	4995.3	87.9
0°-90°	5685.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5685.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2331	2331	2331	2331	2331	
5°	2299	2344	2326	2331	2352	219
15°	2235	2296	2331	2323	2294	631
25°	2109	2211	2061	2016	2026	973
35°	1922	1957	1810	1818	1836	1204
45°	1679	1577	1566	1585	1598	1295
55°	1363	1248	1270	278	214	1217
65°	992	888	166	176	176	976
75°	548	115	104	91	88	582
85°	128	32	27	21	21	154
90°	0	0	0	0	0	



TEST NUMBER: P893776

CATALOG NUMBER: 4MB-6SL-RFLW-UNV-L950

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2330.9	2330.9	2330.9	2330.9	2330.9
2.5°	2301.5	2349.6	2325.5	2328.2	2336.2
5°	2298.8	2344.3	2325.5	2330.9	2352.3
7.5°	2288.1	2336.2	2325.5	2341.6	2365.6
10°	2272.1	2328.2	2325.5	2352.3	2376.3
12.5°	2256.0	2312.2	2325.5	2365.6	2387.0
15°	2234.7	2296.1	2330.9	2322.9	2293.5
17.5°	2207.9	2280.1	2317.5	2202.6	2199.9
20°	2181.2	2258.7	2242.7	2133.1	2122.4
22.5°	2146.5	2237.3	2133.1	2058.2	2071.6
25°	2109.0	2210.6	2060.9	2015.5	2026.2
27.5°	2068.9	2183.9	1983.4	1967.4	1980.7
30°	2023.5	2146.5	1924.6	1919.2	1935.3
32.5°	1975.4	2074.3	1868.5	1871.1	1889.8
35°	1921.9	1956.7	1809.7	1817.7	1836.4
37.5°	1868.5	1847.1	1753.5	1766.9	1785.6
40°	1809.7	1761.5	1694.7	1708.1	1729.5
42.5°	1745.5	1670.7	1630.6	1649.3	1668.0
45°	1678.7	1577.1	1566.4	1585.1	1598.5
47.5°	1609.2	1496.9	1499.6	1512.9	1133.4
50°	1531.7	1416.7	1427.4	989.0	628.2
52.5°	1448.8	1333.8	1355.2	550.6	318.1
55°	1363.3	1248.3	1269.7	278.0	213.8
57.5°	1272.4	1162.8	828.6	200.5	211.2
60°	1181.5	1071.9	422.3	197.8	203.2
62.5°	1087.9	981.0	200.5	189.8	192.5
65°	991.7	887.5	165.7	176.4	176.4
67.5°	884.8	788.5	157.7	157.7	155.0
70°	775.2	654.9	144.3	136.3	133.7
72.5°	673.6	251.3	125.6	112.3	109.6
75°	548.0	114.9	104.2	90.9	88.2
77.5°	435.7	96.2	82.9	72.2	69.5
80°	323.4	74.8	61.5	53.5	50.8
82.5°	224.5	50.8	42.8	34.7	34.7
85°	128.3	32.1	26.7	21.4	21.4
87.5°	50.8	16.0	13.4	8.0	8.0
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P893776
 CATALOG NUMBER: 4MB-6SL-RFLW-UNV-L950

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	24.77	26.29	25.14	26.61	26.92	12.54	14.06	12.90	14.37	14.69
	3H	26.79	28.15	27.17	28.48	28.84	14.85	16.21	15.23	16.54	16.90
	4H	27.26	28.53	27.66	28.88	29.26	15.57	16.84	15.97	17.19	17.57
	6H	27.66	28.84	28.08	29.20	29.59	16.05	17.22	16.46	17.59	17.98
	8H	27.81	28.93	28.24	29.32	29.72	16.19	17.30	16.62	17.69	18.10
	12H	27.91	28.98	28.34	29.36	29.79	16.28	17.34	16.71	17.72	18.15
4H	2H	24.62	25.89	25.01	26.24	26.61	13.34	14.61	13.74	14.96	15.34
	3H	26.82	27.87	27.23	28.27	28.67	15.85	16.90	16.26	17.30	17.70
	4H	27.27	28.20	27.70	28.62	29.06	16.67	17.61	17.10	18.02	18.46
	6H	27.73	28.55	28.19	28.99	29.45	17.26	18.08	17.72	18.52	18.98
	8H	27.92	28.68	28.39	29.13	29.60	17.43	18.19	17.89	18.64	19.10
	12H	28.07	28.75	28.56	29.23	29.70	17.55	18.23	18.03	18.71	19.18
8H	4H	27.18	27.95	27.65	28.39	28.86	17.51	18.27	17.97	18.71	19.18
	6H	27.64	28.27	28.14	28.76	29.24	18.13	18.76	18.63	19.25	19.73
	8H	27.84	28.41	28.36	28.92	29.41	18.33	18.90	18.84	19.41	19.89
	12H	28.03	28.53	28.54	29.02	29.59	18.49	18.99	19.00	19.48	20.05
12H	4H	27.15	27.83	27.64	28.31	28.78	17.58	18.26	18.06	18.74	19.21
	6H	27.60	28.16	28.11	28.67	29.16	18.22	18.79	18.74	19.30	19.79
	8H	27.82	28.32	28.33	28.81	29.38	18.48	18.98	18.99	19.47	20.04