

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: P893696

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893696
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-15)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4MB-6SL-ACL-UNV-L950
Description: 6000 Lumen 4FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS, 90CRI, 5000K (C)
Light Source: -
Ballast/Driver: -

Summary

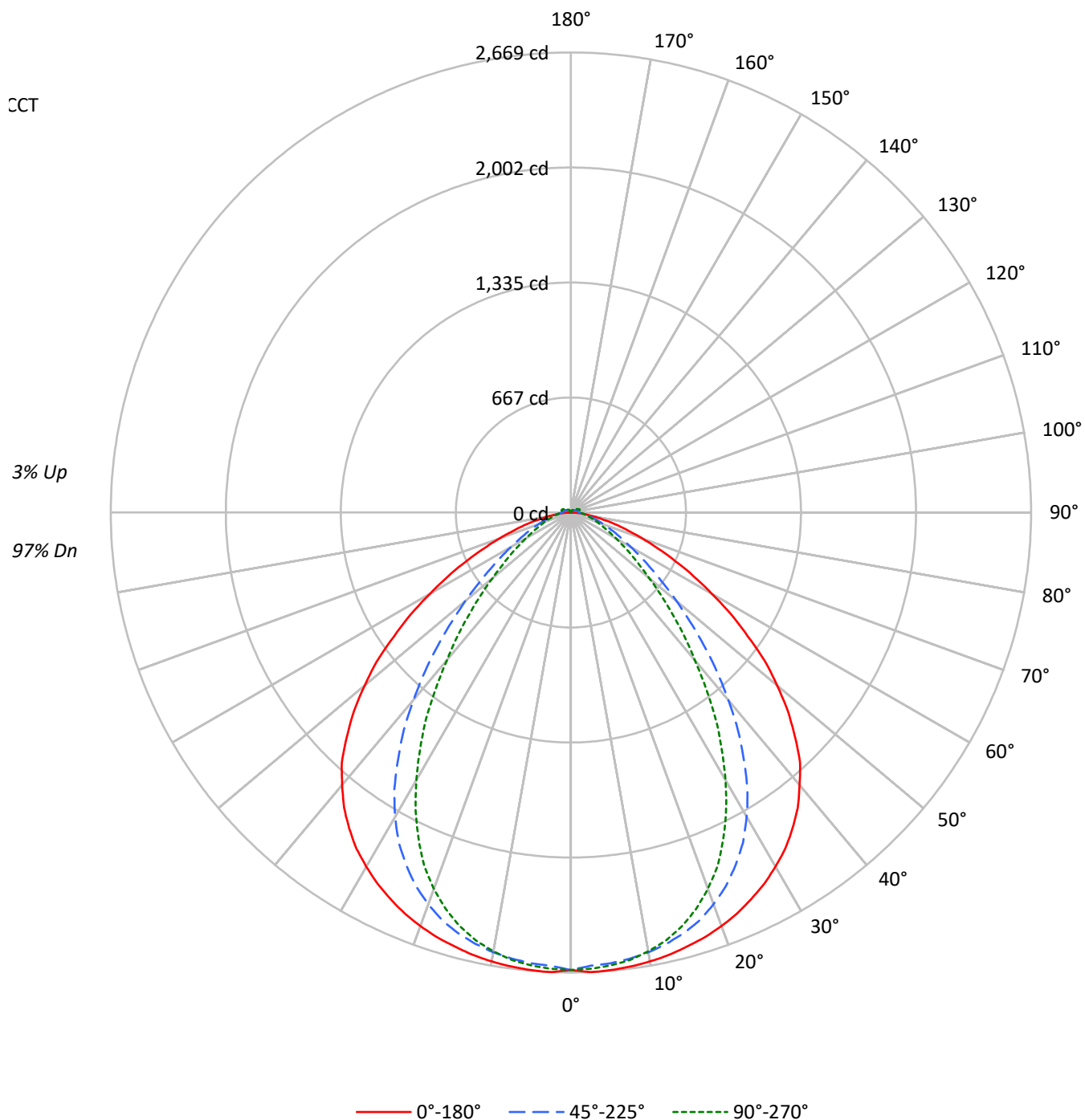
Lumens per Lamp: N/A
Luminaire Lumens: 5444.0 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.06 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 3.98' x H: 0.08')
CIE Type: Direct

Input Watts (W): 44.4
Input Voltage (V): 120
Input Current (Ain): 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	0
RCR																				
0	118	118	118	118	115	115	115	115	110	110	110		104	104	104		100	100	100	97
1	110	106	102	99	107	103	100	97	99	96	93		94	92	90		90	89	87	85
2	101	94	88	84	99	92	87	82	88	84	80		85	81	78		82	79	76	74
3	94	85	77	72	91	83	76	71	80	74	69		77	72	68		74	70	66	64
4	87	76	68	62	84	75	67	62	72	66	61		69	64	60		67	62	59	57
5	80	69	61	55	78	68	60	55	65	59	54		63	58	53		61	56	52	50
6	75	63	55	49	73	62	54	49	60	53	48		58	52	47		56	51	47	45
7	70	57	50	44	68	57	49	44	55	48	43		53	47	43		52	46	42	40
8	65	53	45	40	64	52	45	40	51	44	39		49	43	39		48	42	38	37
9	61	49	41	36	60	48	41	36	47	40	36		46	40	35		45	39	35	33
10	58	45	38	33	56	45	38	33	44	37	33		43	37	32		42	36	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	27027	27027	27027
5°	27199	26294	26251
10°	27247	25722	25331
15°	27329	25053	24177
20°	27462	24133	22599
25°	27543	22854	20499
30°	27570	21098	17860
35°	27452	18644	14940
40°	26965	15749	11757
45°	25926	12714	9116
50°	24138	9865	6839
55°	21609	7552	5232
60°	18565	5805	3985
65°	15480	4579	3168
70°	12381	3674	2588
75°	9862	2961	2203
80°	7224	2442	1929
85°	4960	2076	1777

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 25926 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.4	4.6
10°-20°	716.1	13.2
20°-30°	1044.0	19.2
30°-40°	1121.6	20.6
40°-50°	933.5	17.1
50°-60°	624.4	11.5
60°-70°	357.4	6.6
70°-80°	177.7	3.3
80°-90°	72.7	1.3
90°-100°	42.2	0.8
100°-110°	37.2	0.7
110°-120°	27.3	0.5
120°-130°	17.6	0.3
130°-140°	10.5	0.2
140°-150°	5.9	0.1
150°-160°	3.0	0.1
160°-170°	1.3	0.0
170°-180°	0.3	0.0
0°-30°	2011.4	36.9
0°-40°	3133.1	57.6
0°-60°	4691.0	86.2
0°-90°	5298.8	97.3
90°-120°	106.8	2.0
90°-150°	140.7	2.6
90°-180°	145.0	2.7
0°-180°	5444.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2654	2654	2654	2654	2654	
5°	2665	2657	2625	2647	2638	254
15°	2607	2589	2527	2508	2486	737
25°	2475	2416	2258	2144	2091	1141
35°	2240	2078	1748	1533	1466	1399
45°	1838	1527	1092	883	831	1413
55°	1253	904	569	450	427	1123
65°	671	455	286	232	220	671
75°	270	197	142	125	122	290
85°	53	59	66	69	70	62
90°	8	25	45	53	55	7
95°	12	25	44	53	55	9
105°	8	20	40	52	54	8
115°	4	12	31	43	46	4
125°	2	8	21	31	34	2
135°	2	6	14	21	23	1
145°	2	5	9	14	16	1
155°	2	4	6	8	11	1
165°	2	3	5	5	7	1
175°	2	2	3	3	3	0
180°	2	2	2	2	2	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2653.8	2653.8	2653.8	2653.8	2653.8
2.5°	2669.3	2662.3	2632.1	2656.1	2649.2
5°	2665.4	2656.9	2625.2	2646.8	2638.3
7.5°	2656.9	2647.6	2611.2	2628.3	2619.0
10°	2644.5	2632.9	2591.1	2599.6	2584.9
12.5°	2629.0	2614.3	2562.5	2560.1	2543.9
15°	2606.6	2588.8	2526.8	2508.3	2485.8
17.5°	2583.4	2557.0	2481.2	2443.2	2412.3
20°	2553.2	2518.3	2418.5	2362.0	2323.2
22.5°	2518.3	2471.1	2348.0	2261.3	2221.1
25°	2475.0	2416.1	2258.2	2144.4	2091.0
27.5°	2428.5	2350.3	2160.7	2011.3	1950.1
30°	2372.8	2276.0	2039.1	1859.5	1793.7
32.5°	2314.0	2181.6	1906.0	1700.0	1628.1
35°	2240.4	2077.8	1748.0	1532.8	1465.5
37.5°	2160.7	1954.0	1591.7	1361.7	1285.9
40°	2063.9	1823.1	1419.8	1192.2	1117.1
42.5°	1967.9	1680.7	1254.9	1038.9	973.9
45°	1837.8	1527.4	1091.6	883.3	831.4
47.5°	1707.0	1363.3	935.2	757.1	706.0
50°	1561.5	1202.3	798.2	635.6	593.0
52.5°	1419.8	1052.1	673.5	537.3	500.9
55°	1253.4	904.2	569.0	449.8	426.6
57.5°	1103.2	767.2	480.0	380.9	359.2
60°	944.5	650.3	401.8	322.0	301.9
62.5°	805.1	546.6	338.3	273.3	259.3
65°	671.2	455.2	286.4	232.2	219.9
67.5°	548.1	380.1	241.5	198.2	188.1
70°	439.7	308.1	203.6	168.8	161.8
72.5°	346.0	247.7	169.5	145.5	139.3
75°	270.2	196.6	141.7	125.4	121.5
77.5°	195.1	153.3	118.4	107.6	105.3
80°	137.8	116.1	97.5	92.9	91.4
82.5°	91.4	84.4	80.5	80.5	79.7
85°	52.6	58.8	65.8	68.9	69.7
87.5°	27.1	39.5	52.6	58.8	59.6
90°	7.7	24.8	44.9	53.4	55.0
92.5°	11.6	24.8	44.1	53.4	55.0
95°	11.6	24.8	44.1	53.4	55.0
97.5°	10.8	24.0	44.1	53.4	55.0
100°	10.1	22.5	43.4	53.4	55.0
102.5°	8.5	21.7	41.8	52.6	55.0
105°	7.7	20.1	39.5	51.9	54.2
107.5°	7.0	17.0	37.2	49.5	52.6
110°	5.4	14.7	35.6	47.2	51.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	4.6	13.2	33.3	44.9	48.8
115°	3.9	11.6	31.0	42.6	46.4
117.5°	3.1	10.8	27.9	39.5	43.4
120°	2.3	10.1	25.5	37.2	40.3
122.5°	2.3	9.3	22.5	34.1	37.2
125°	2.3	7.7	20.9	31.0	34.1
127.5°	1.5	7.0	18.6	27.9	31.0
130°	1.5	7.0	17.0	25.5	27.9
132.5°	1.5	6.2	15.5	23.2	25.5
135°	1.5	6.2	13.9	20.9	23.2
137.5°	1.5	5.4	12.4	19.4	21.7
140°	1.5	5.4	11.6	17.0	19.4
142.5°	1.5	4.6	10.1	16.3	17.8
145°	1.5	4.6	9.3	13.9	16.3
147.5°	1.5	4.6	8.5	13.2	14.7
150°	1.5	3.9	7.7	10.8	13.2
152.5°	1.5	3.9	7.0	10.1	12.4
155°	1.5	3.9	6.2	8.5	10.8
157.5°	1.5	3.9	6.2	7.7	9.3
160°	2.3	3.1	5.4	7.0	8.5
162.5°	2.3	3.1	4.6	6.2	7.7
165°	2.3	3.1	4.6	5.4	7.0
167.5°	2.3	3.1	3.9	4.6	5.4
170°	2.3	2.3	3.9	3.9	3.9
172.5°	2.3	2.3	3.1	3.9	3.1
175°	2.3	2.3	3.1	3.1	3.1
177.5°	2.3	2.3	3.1	3.1	3.1
180°	2.3	2.3	2.3	2.3	2.3

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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	20.19	21.58	20.60	21.95	22.34	15.48	16.88	15.89	17.25	17.63
	3H	21.28	22.53	21.71	22.91	23.34	16.62	17.87	17.05	18.25	18.68
	4H	21.59	22.75	22.03	23.16	23.60	17.12	18.29	17.57	18.69	19.14
	6H	21.73	22.81	22.19	23.23	23.69	17.63	18.70	18.08	19.12	19.58
	8H	21.75	22.77	22.23	23.22	23.68	17.89	18.91	18.36	19.35	19.82
	12H	21.75	22.72	22.22	23.16	23.65	18.18	19.16	18.66	19.59	20.09
4H	2H	20.17	21.33	20.62	21.74	22.19	15.98	17.14	16.43	17.55	18.00
	3H	21.41	22.37	21.86	22.82	23.29	17.30	18.26	17.75	18.71	19.18
	4H	21.79	22.66	22.27	23.12	23.63	17.89	18.75	18.37	19.22	19.73
	6H	22.02	22.77	22.53	23.27	23.79	18.51	19.26	19.01	19.75	20.28
	8H	22.06	22.77	22.57	23.26	23.79	18.83	19.53	19.34	20.03	20.56
	12H	22.08	22.70	22.61	23.23	23.77	19.20	19.83	19.73	20.36	20.89
8H	4H	21.78	22.48	22.29	22.98	23.51	18.13	18.83	18.64	19.32	19.86
	6H	22.06	22.64	22.60	23.18	23.72	18.85	19.43	19.39	19.97	20.51
	8H	22.13	22.65	22.69	23.21	23.76	19.26	19.78	19.82	20.34	20.89
	12H	22.17	22.64	22.73	23.18	23.80	19.75	20.21	20.30	20.75	21.38
12H	4H	21.76	22.38	22.28	22.91	23.45	18.14	18.77	18.67	19.30	19.83
	6H	22.04	22.56	22.60	23.12	23.67	18.89	19.41	19.45	19.97	20.52
	8H	22.14	22.60	22.70	23.14	23.77	19.35	19.81	19.90	20.35	20.98

END OF REPORT