

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: P893686

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893686
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-16)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4MB-6SL-A-UNV-L935
Description: 6000 Lumen 4FT MICROBAY LINEAR BAY with AISLE OPTIC, 90CRI, 3500K CCT
Light Source: -
Ballast/Driver: -

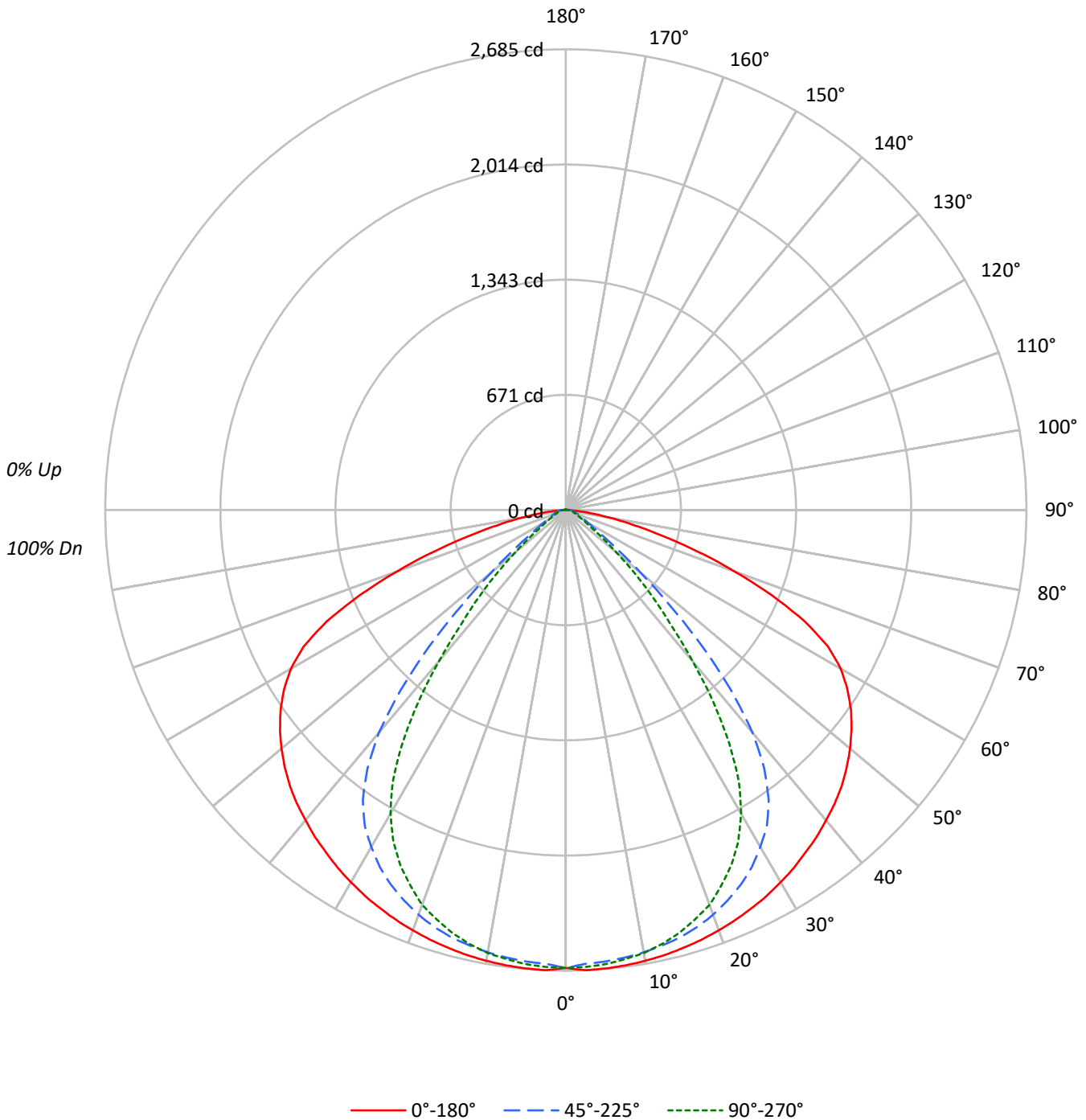
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5470.0 lumens
Efficiency: N/A
Efficacy: 123.2 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.15 / 1.23
Luminous Opening: Rectangular (W 0.27' 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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	111	107	103	100	108	105	102	99	100	98	96	97	95	93	93	91	90	90	90	88
2	103	96	90	85	100	94	89	84	91	86	82	87	84	81	84	81	79	79	79	77
3	95	86	79	74	93	85	78	73	82	76	72	79	74	71	77	73	69	69	69	67
4	88	78	70	65	86	77	70	64	74	68	63	72	67	62	70	65	62	62	62	60
5	82	71	63	57	80	70	62	57	68	61	56	66	60	55	64	59	55	55	55	53
6	76	64	56	51	74	63	56	51	62	55	50	60	54	50	59	53	49	49	49	47
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	45	45	43
8	66	54	47	41	65	54	46	41	52	46	41	51	45	41	50	44	40	40	40	39
9	62	50	43	38	61	50	42	37	48	42	37	47	41	37	46	41	37	37	37	35
10	59	46	39	34	57	46	39	34	45	39	34	44	38	34	43	38	34	34	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	27176	27176	27176
5°	27415	27007	27166
10°	27587	27067	27106
15°	27861	27184	26904
20°	28255	27207	26543
25°	28781	27089	25645
30°	29452	26664	24033
35°	30292	25639	20663
40°	31371	22518	15274
45°	32753	16249	10272
50°	34275	9079	6130
55°	36026	4693	3356
60°	37688	3053	2377
65°	37043	2509	1887
70°	31242	2308	1760
75°	22980	2353	1889
80°	15331	2774	2381
85°	8367	4487	3622

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 62.5°
 Luminance: 38009 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.4	4.6
10°-20°	732.2	13.4
20°-30°	1113.8	20.4
30°-40°	1272.0	23.3
40°-50°	1026.2	18.8
50°-60°	561.7	10.3
60°-70°	296.2	5.4
70°-80°	145.2	2.7
80°-90°	51.2	0.9
90°-100°	11.0	0.2
100°-110°	1.5	0.0
110°-120°	0.9	0.0
120°-130°	0.8	0.0
130°-140°	0.9	0.0
140°-150°	1.1	0.0
150°-160°	1.0	0.0
160°-170°	0.8	0.0
170°-180°	0.3	0.0
0°-30°	2099.3	38.4
0°-40°	3371.3	61.6
0°-60°	4959.2	90.7
0°-90°	5451.8	99.7
90°-120°	13.4	0.2
90°-150°	16.2	0.3
90°-180°	18.0	0.3
0°-180°	5470.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2668	2668	2668	2668	2668	
5°	2682	2674	2642	2665	2657	255
15°	2642	2626	2578	2574	2552	748
25°	2561	2524	2411	2329	2282	1183
35°	2436	2334	2062	1782	1662	1528
45°	2274	1954	1128	771	713	1755
55°	2029	835	264	204	189	1810
65°	1537	193	104	84	78	1487
75°	584	108	60	50	48	645
85°	72	57	38	35	31	99
90°	3	30	24	21	19	4
95°	2	4	8	13	12	2
105°	1	0	1	2	2	1
115°	1	1	1	2	1	1
125°	1	1	1	2	1	1
135°	1	1	2	2	1	1
145°	2	2	2	2	2	1
155°	2	2	2	3	2	1
165°	2	2	3	3	3	0
175°	2	2	3	4	3	0
180°	3	3	3	3	3	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2668.4	2668.4	2668.4	2668.4	2668.4
2.5°	2684.6	2677.2	2647.0	2672.8	2665.4
5°	2681.7	2673.5	2641.8	2665.4	2657.3
7.5°	2676.5	2666.2	2631.5	2652.9	2640.3
10°	2667.6	2657.3	2617.4	2634.4	2621.1
12.5°	2657.3	2643.3	2599.0	2607.8	2590.8
15°	2642.5	2626.3	2578.3	2573.9	2551.7
17.5°	2626.3	2606.3	2548.0	2528.8	2502.2
20°	2607.1	2582.7	2510.4	2472.7	2449.1
22.5°	2585.7	2553.9	2463.1	2405.5	2368.6
25°	2561.3	2524.4	2410.7	2328.7	2282.2
27.5°	2535.5	2485.3	2347.2	2239.4	2176.6
30°	2504.5	2443.9	2267.4	2122.0	2043.7
32.5°	2473.4	2392.2	2181.8	1970.6	1877.6
35°	2436.5	2333.9	2062.2	1781.6	1662.0
37.5°	2401.8	2263.8	1900.5	1544.6	1416.1
40°	2359.7	2181.1	1693.8	1272.2	1148.9
42.5°	2319.9	2085.1	1425.7	1009.3	902.3
45°	2274.1	1953.7	1128.2	770.8	713.2
47.5°	2220.9	1774.2	820.3	573.7	537.5
50°	2163.3	1527.6	573.0	416.4	386.9
52.5°	2099.8	1194.6	386.2	289.4	273.2
55°	2029.0	835.1	264.3	204.5	189.0
57.5°	1947.0	543.4	192.0	154.3	144.0
60°	1850.3	347.0	149.9	122.6	116.7
62.5°	1723.3	243.7	123.3	101.2	96.0
65°	1537.2	192.7	104.1	84.2	78.3
67.5°	1301.7	163.2	89.3	70.9	67.2
70°	1049.2	141.8	77.5	61.3	59.1
72.5°	806.3	124.0	67.2	54.6	53.2
75°	584.0	108.5	59.8	50.2	48.0
77.5°	404.6	93.8	53.2	45.0	43.6
80°	261.4	81.2	47.3	41.3	40.6
82.5°	149.9	67.9	42.8	39.9	39.1
85°	71.6	56.9	38.4	34.7	31.0
87.5°	22.9	42.1	30.3	26.6	23.6
90°	3.0	29.5	23.6	20.7	19.2
92.5°	3.0	16.2	17.0	17.0	16.2
95°	2.2	3.7	8.1	12.6	11.8
97.5°	2.2	1.5	5.2	8.9	8.9
100°	1.5	0.7	2.2	5.9	5.9
102.5°	1.5	0.7	0.7	3.7	3.7
105°	0.7	0.0	0.7	1.5	1.5
107.5°	0.7	0.7	0.7	1.5	0.7
110°	0.7	0.7	0.7	1.5	0.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.7	0.7	0.7	1.5	0.7
115°	0.7	0.7	0.7	1.5	0.7
117.5°	0.7	0.7	0.7	1.5	0.7
120°	0.7	0.7	0.7	1.5	0.7
122.5°	0.7	0.7	0.7	1.5	0.7
125°	0.7	0.7	0.7	1.5	0.7
127.5°	0.7	0.7	0.7	1.5	0.7
130°	0.7	0.7	1.5	1.5	0.7
132.5°	0.7	0.7	1.5	1.5	0.7
135°	0.7	0.7	1.5	1.5	0.7
137.5°	0.7	0.7	1.5	1.5	1.5
140°	1.5	0.7	1.5	1.5	1.5
142.5°	1.5	1.5	1.5	2.2	1.5
145°	1.5	1.5	1.5	2.2	1.5
147.5°	1.5	1.5	2.2	2.2	1.5
150°	1.5	1.5	2.2	2.2	1.5
152.5°	1.5	1.5	2.2	2.2	2.2
155°	1.5	1.5	2.2	3.0	2.2
157.5°	1.5	1.5	2.2	3.0	2.2
160°	1.5	2.2	3.0	3.0	2.2
162.5°	1.5	2.2	3.0	3.0	3.0
165°	1.5	2.2	3.0	3.0	3.0
167.5°	2.2	2.2	3.0	3.7	3.0
170°	2.2	2.2	3.0	3.7	3.0
172.5°	2.2	2.2	3.0	3.7	3.0
175°	2.2	2.2	3.0	3.7	3.0
177.5°	2.2	2.2	3.0	3.7	3.7
180°	3.0	3.0	3.0	3.0	3.0



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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	21.38	22.78	21.75	23.10	23.42	9.89	11.29	10.26	11.61	11.94
	3H	24.29	25.54	24.67	25.87	26.24	10.83	12.07	11.21	12.41	12.78
	4H	25.18	26.35	25.59	26.70	27.09	11.35	12.51	11.76	12.87	13.26
	6H	25.68	26.75	26.10	27.13	27.53	11.98	13.05	12.40	13.43	13.83
	8H	25.79	26.81	26.23	27.21	27.62	12.40	13.42	12.83	13.81	14.22
	12H	25.84	26.81	26.27	27.20	27.63	12.85	13.82	13.28	14.21	14.65
4H	2H	21.19	22.36	21.60	22.71	23.10	10.41	11.57	10.82	11.93	12.32
	3H	24.12	25.08	24.54	25.49	25.90	11.61	12.56	12.02	12.97	13.38
	4H	25.03	25.88	25.47	26.31	26.75	12.27	13.13	12.71	13.55	14.00
	6H	25.62	26.36	26.09	26.81	27.28	13.09	13.84	13.56	14.29	14.76
	8H	25.78	26.47	26.25	26.93	27.40	13.63	14.32	14.10	14.77	15.25
	12H	25.87	26.49	26.36	26.97	27.46	14.20	14.82	14.70	15.31	15.79
8H	4H	24.92	25.61	25.39	26.06	26.54	12.86	13.56	13.34	14.01	14.49
	6H	25.52	26.09	26.02	26.59	27.07	13.87	14.44	14.37	14.94	15.43
	8H	25.70	26.22	26.23	26.74	27.23	14.54	15.06	15.07	15.57	16.07
	12H	25.85	26.31	26.37	26.80	27.38	15.31	15.76	15.83	16.26	16.84
12H	4H	24.88	25.49	25.37	25.98	26.46	13.12	13.74	13.61	14.23	14.71
	6H	25.46	25.98	25.99	26.50	27.00	14.18	14.69	14.70	15.21	15.71
	8H	25.68	26.14	26.20	26.64	27.21	14.94	15.40	15.46	15.90	16.47