

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: P893695

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893695
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-L940
Description: 6000 Lumen 4FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS, 90CRI, 4000K (C)
Light Source: -
Ballast/Driver: -

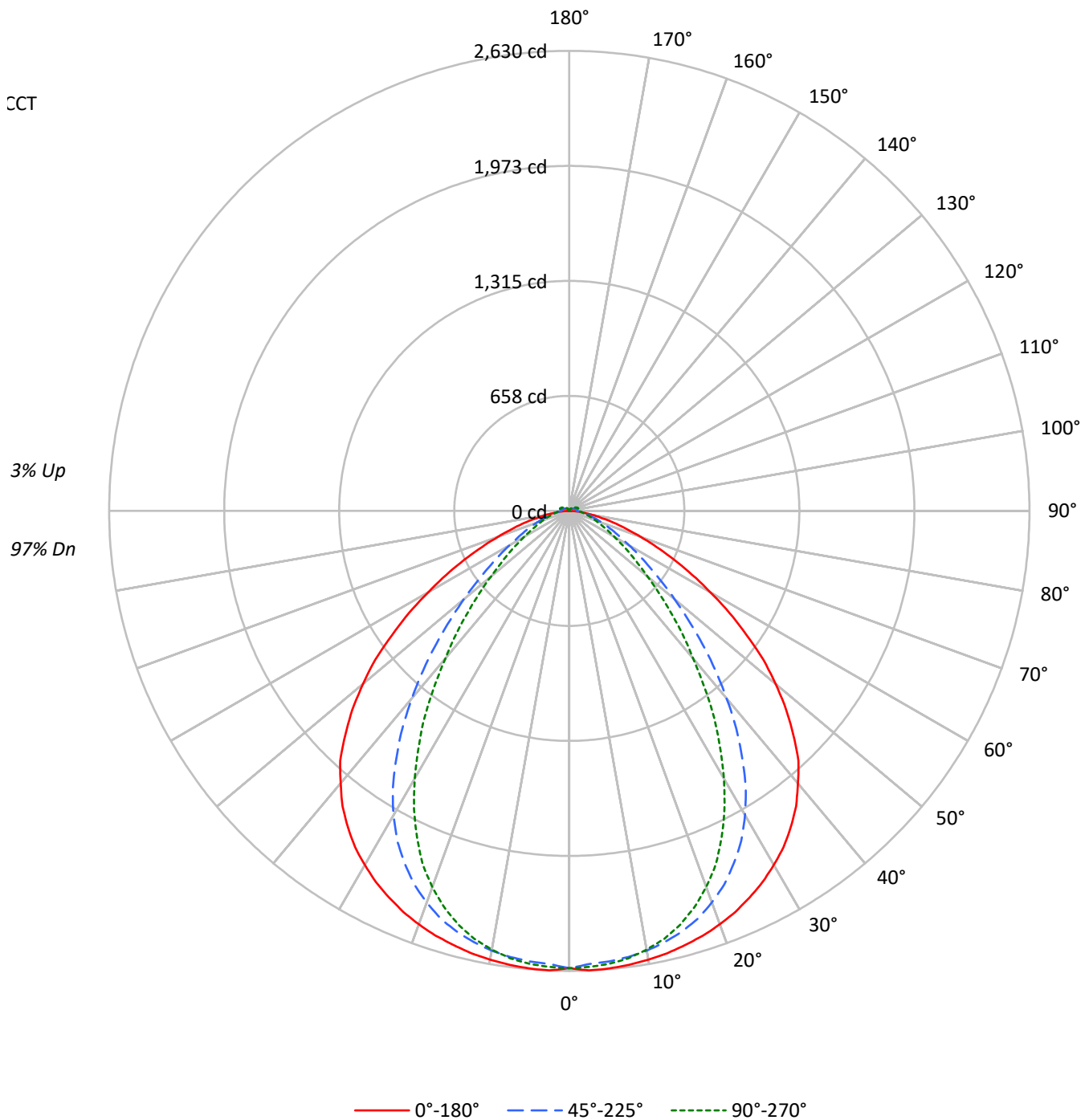
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5363.0 lumens
Efficiency: N/A
Efficacy: 120.8 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 (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: P893695
CATALOG NUMBER: 4MB-6SL-ACL-UNV-L940

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	118	118	118	118	115	115	115	115	110	110	110	104	104	104	100	100	100	97				97
1	110	106	102	99	107	103	100	97	99	96	93	94	92	90	90	89	87	85				85
2	101	94	88	84	99	92	87	82	88	84	80	85	81	78	82	79	76	74				74
3	94	85	77	72	91	83	76	71	80	74	69	77	72	68	74	70	66	64				64
4	87	76	68	62	84	75	67	62	72	66	61	69	64	60	67	62	59	57				57
5	80	69	61	55	78	68	60	55	65	59	54	63	58	53	61	56	52	50				50
6	75	63	55	49	73	62	54	49	60	53	48	58	52	47	56	51	47	45				45
7	70	57	50	44	68	57	49	44	55	48	43	53	47	43	52	46	42	40				40
8	65	53	45	40	64	52	45	40	51	44	39	49	43	39	48	42	38	37				37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	33				33
10	58	45	38	33	56	45	38	33	44	37	33	43	37	32	42	36	32	31				31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26625	26625	26625
5°	26795	25902	25861
10°	26842	25340	24954
15°	26923	24681	23817
20°	27053	23774	22263
25°	27133	22514	20194
30°	27160	20784	17594
35°	27044	18367	14717
40°	26564	15515	11583
45°	25541	12524	8981
50°	23778	9718	6738
55°	21286	7439	5153
60°	18288	5719	3925
65°	15249	4512	3121
70°	12198	3620	2550
75°	9716	2917	2170
80°	7114	2407	1900
85°	4894	2044	1749

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 25541 cd/sqm



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 CATALOG NUMBER: 4MB-6SL-ACL-UNV-L940

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.6	4.6
10°-20°	705.4	13.2
20°-30°	1028.5	19.2
30°-40°	1105.0	20.6
40°-50°	919.6	17.1
50°-60°	615.1	11.5
60°-70°	352.1	6.6
70°-80°	175.1	3.3
80°-90°	71.6	1.3
90°-100°	41.6	0.8
100°-110°	36.7	0.7
110°-120°	26.9	0.5
120°-130°	17.3	0.3
130°-140°	10.3	0.2
140°-150°	5.8	0.1
150°-160°	2.9	0.1
160°-170°	1.2	0.0
170°-180°	0.3	0.0
0°-30°	1981.5	36.9
0°-40°	3086.5	57.6
0°-60°	4621.2	86.2
0°-90°	5220.0	97.3
90°-120°	105.2	2.0
90°-150°	138.6	2.6
90°-180°	143.0	2.7
0°-180°	5363.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2614	2614	2614	2614	2614	
5°	2626	2617	2586	2608	2599	250
15°	2568	2550	2489	2471	2449	726
25°	2438	2380	2225	2112	2060	1124
35°	2207	2047	1722	1510	1444	1378
45°	1810	1505	1075	870	819	1392
55°	1235	891	560	443	420	1106
65°	661	448	282	229	217	661
75°	266	194	140	124	120	285
85°	52	58	65	68	69	61
90°	8	24	44	53	54	7
95°	11	24	44	53	54	9
105°	8	20	39	51	53	8
115°	4	11	30	42	46	4
125°	2	8	21	30	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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CATALOG NUMBER: 4MB-6SL-ACL-UNV-L940

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2614.3	2614.3	2614.3	2614.3	2614.3
2.5°	2629.6	2622.7	2593.0	2616.6	2609.8
5°	2625.8	2617.4	2586.1	2607.5	2599.1
7.5°	2617.4	2608.2	2572.4	2589.2	2580.0
10°	2605.2	2593.7	2552.6	2560.9	2546.5
12.5°	2589.9	2575.4	2524.3	2522.0	2506.0
15°	2567.8	2550.3	2489.3	2471.0	2448.8
17.5°	2544.9	2519.0	2444.3	2406.9	2376.4
20°	2515.2	2480.9	2382.5	2326.8	2288.7
22.5°	2480.9	2434.3	2313.1	2227.7	2188.0
25°	2438.2	2380.2	2224.6	2112.5	2059.9
27.5°	2392.4	2315.4	2128.5	1981.3	1921.1
30°	2337.5	2242.2	2008.8	1831.9	1767.0
32.5°	2279.5	2149.1	1877.6	1674.8	1603.8
35°	2207.1	2046.9	1722.0	1510.0	1443.7
37.5°	2128.5	1924.9	1568.0	1341.5	1266.7
40°	2033.2	1796.0	1398.7	1174.5	1100.5
42.5°	1938.6	1655.7	1236.2	1023.5	959.4
45°	1810.5	1504.7	1075.3	870.2	819.1
47.5°	1681.6	1343.0	921.3	745.9	695.5
50°	1538.2	1184.4	786.3	626.1	584.2
52.5°	1398.7	1036.4	663.5	529.3	493.4
55°	1234.7	890.8	560.5	443.1	420.2
57.5°	1086.8	755.8	472.8	375.2	353.9
60°	930.4	640.6	395.8	317.3	297.4
62.5°	793.1	538.4	333.3	269.2	255.5
65°	661.2	448.4	282.2	228.8	216.6
67.5°	539.9	374.5	237.9	195.2	185.3
70°	433.2	303.5	200.6	166.3	159.4
72.5°	340.9	244.0	167.0	143.4	137.3
75°	266.2	193.7	139.6	123.5	119.7
77.5°	192.2	151.0	116.7	106.0	103.7
80°	135.7	114.4	96.1	91.5	90.0
82.5°	90.0	83.1	79.3	79.3	78.6
85°	51.9	58.0	64.8	67.9	68.6
87.5°	26.7	38.9	51.9	58.0	58.7
90°	7.6	24.4	44.2	52.6	54.1
92.5°	11.4	24.4	43.5	52.6	54.1
95°	11.4	24.4	43.5	52.6	54.1
97.5°	10.7	23.6	43.5	52.6	54.1
100°	9.9	22.1	42.7	52.6	54.1
102.5°	8.4	21.4	41.2	51.9	54.1
105°	7.6	19.8	38.9	51.1	53.4
107.5°	6.9	16.8	36.6	48.8	51.9
110°	5.3	14.5	35.1	46.5	50.3



TEST NUMBER: P893695

CATALOG NUMBER: 4MB-6SL-ACL-UNV-L940

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	4.6	13.0	32.8	44.2	48.0
115°	3.8	11.4	30.5	41.9	45.8
117.5°	3.1	10.7	27.5	38.9	42.7
120°	2.3	9.9	25.2	36.6	39.7
122.5°	2.3	9.2	22.1	33.6	36.6
125°	2.3	7.6	20.6	30.5	33.6
127.5°	1.5	6.9	18.3	27.5	30.5
130°	1.5	6.9	16.8	25.2	27.5
132.5°	1.5	6.1	15.3	22.9	25.2
135°	1.5	6.1	13.7	20.6	22.9
137.5°	1.5	5.3	12.2	19.1	21.4
140°	1.5	5.3	11.4	16.8	19.1
142.5°	1.5	4.6	9.9	16.0	17.5
145°	1.5	4.6	9.2	13.7	16.0
147.5°	1.5	4.6	8.4	13.0	14.5
150°	1.5	3.8	7.6	10.7	13.0
152.5°	1.5	3.8	6.9	9.9	12.2
155°	1.5	3.8	6.1	8.4	10.7
157.5°	1.5	3.8	6.1	7.6	9.2
160°	2.3	3.1	5.3	6.9	8.4
162.5°	2.3	3.1	4.6	6.1	7.6
165°	2.3	3.1	4.6	5.3	6.9
167.5°	2.3	3.1	3.8	4.6	5.3
170°	2.3	2.3	3.8	3.8	3.8
172.5°	2.3	2.3	3.1	3.8	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	20.14	21.53	20.55	21.90	22.28	15.43	16.82	15.84	17.20	17.58
	3H	21.23	22.47	21.65	22.86	23.29	16.57	17.82	17.00	18.20	18.63
	4H	21.54	22.70	21.98	23.11	23.55	17.07	18.24	17.52	18.64	19.09
	6H	21.68	22.76	22.14	23.18	23.64	17.57	18.65	18.03	19.07	19.53
	8H	21.70	22.72	22.17	23.17	23.63	17.83	18.85	18.31	19.30	19.76
	12H	21.69	22.67	22.17	23.11	23.60	18.13	19.10	18.60	19.54	20.03
4H	2H	20.12	21.28	20.57	21.69	22.13	15.93	17.09	16.38	17.50	17.94
	3H	21.36	22.32	21.81	22.77	23.24	17.24	18.20	17.70	18.66	19.13
	4H	21.74	22.60	22.22	23.07	23.58	17.84	18.70	18.32	19.17	19.67
	6H	21.97	22.72	22.48	23.22	23.74	18.46	19.21	18.96	19.70	20.23
	8H	22.01	22.71	22.52	23.21	23.74	18.78	19.48	19.29	19.97	20.51
	12H	22.02	22.65	22.55	23.18	23.71	19.15	19.78	19.68	20.31	20.84
8H	4H	21.73	22.43	22.24	22.92	23.45	18.08	18.78	18.59	19.27	19.80
	6H	22.00	22.58	22.55	23.13	23.67	18.80	19.38	19.34	19.92	20.46
	8H	22.08	22.60	22.64	23.16	23.71	19.21	19.73	19.76	20.28	20.84
	12H	22.12	22.58	22.68	23.12	23.75	19.70	20.16	20.25	20.70	21.33
12H	4H	21.70	22.33	22.23	22.86	23.39	18.09	18.72	18.62	19.24	19.78
	6H	21.98	22.51	22.54	23.06	23.61	18.84	19.36	19.40	19.92	20.47
	8H	22.09	22.55	22.65	23.09	23.72	19.30	19.76	19.85	20.30	20.93