

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: P893694

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893694
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-L935
Description: 6000 Lumen 4FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS, 90CRI, 3500K (C)
Light Source: -
Ballast/Driver: -

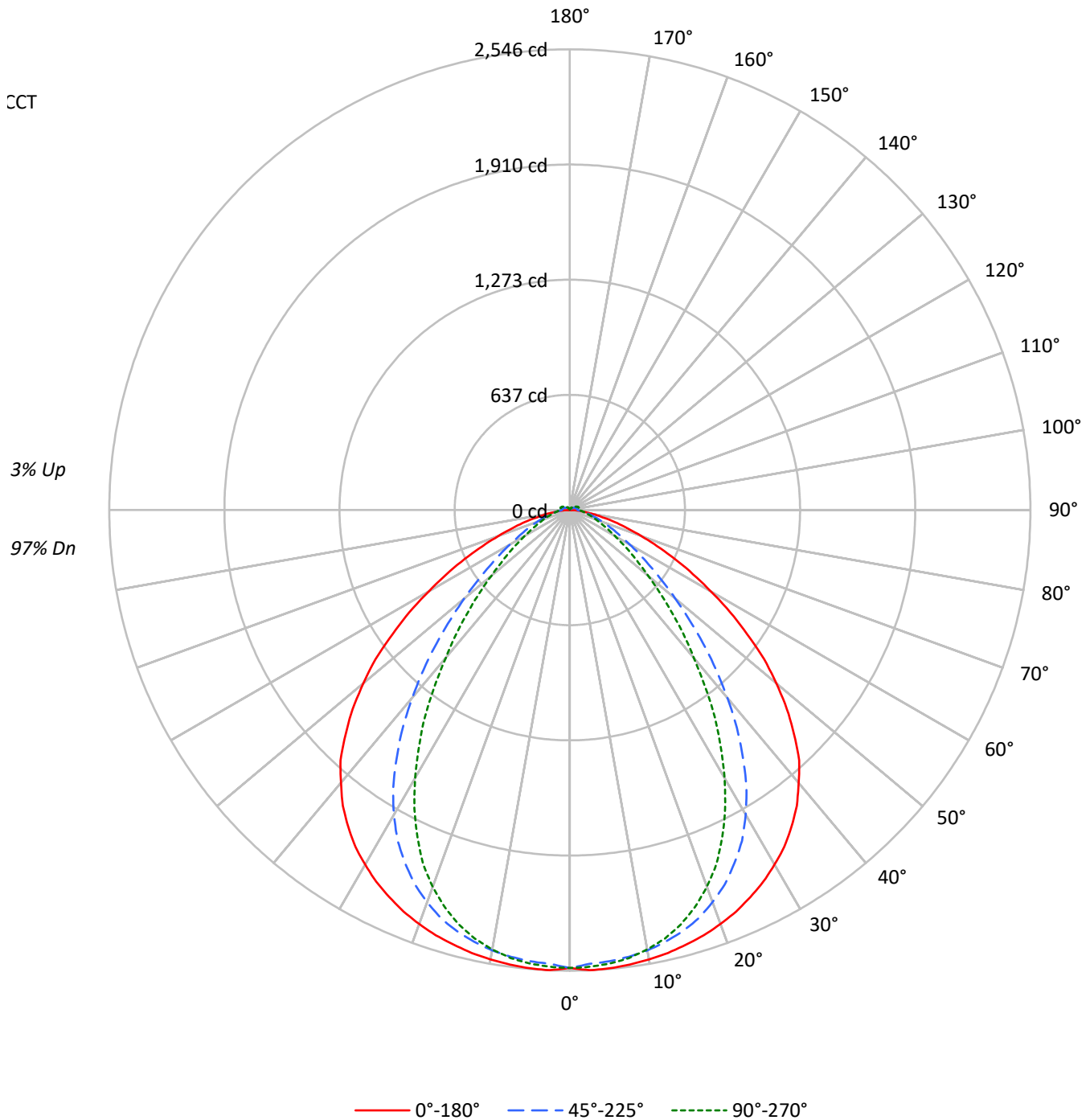
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5192.0 lumens
Efficiency: N/A
Efficacy: 116.9 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

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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°	25776	25776	25776
5°	25940	25077	25036
10°	25986	24532	24159
15°	26064	23894	23059
20°	26191	23016	21553
25°	26267	21797	19550
30°	26294	20121	17033
35°	26181	17781	14247
40°	25717	15021	11213
45°	24727	12125	8695
50°	23020	9408	6523
55°	20607	7203	4989
60°	17706	5537	3800
65°	14762	4368	3021
70°	11809	3505	2468
75°	9405	2823	2101
80°	6889	2329	1838
85°	4733	1981	1692

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 24727 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.7	4.6
10°-20°	682.9	13.2
20°-30°	995.7	19.2
30°-40°	1069.7	20.6
40°-50°	890.3	17.1
50°-60°	595.5	11.5
60°-70°	340.9	6.6
70°-80°	169.5	3.3
80°-90°	69.4	1.3
90°-100°	40.2	0.8
100°-110°	35.5	0.7
110°-120°	26.1	0.5
120°-130°	16.8	0.3
130°-140°	10.0	0.2
140°-150°	5.6	0.1
150°-160°	2.8	0.1
160°-170°	1.2	0.0
170°-180°	0.3	0.0
0°-30°	1918.3	36.9
0°-40°	2988.1	57.6
0°-60°	4473.8	86.2
0°-90°	5053.6	97.3
90°-120°	101.8	2.0
90°-150°	134.1	2.6
90°-180°	138.0	2.7
0°-180°	5192.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2531	2531	2531	2531	2531	
5°	2542	2534	2504	2524	2516	242
15°	2486	2469	2410	2392	2371	703
25°	2360	2304	2154	2045	1994	1089
35°	2137	1982	1667	1462	1398	1334
45°	1753	1457	1041	842	793	1348
55°	1195	862	543	429	407	1071
65°	640	434	273	222	210	640
75°	258	188	135	120	116	276
85°	50	56	63	66	66	59
90°	7	24	43	51	52	7
95°	11	24	42	51	52	9
105°	7	19	38	50	52	8
115°	4	11	30	41	44	4
125°	2	7	20	30	32	2
135°	2	6	13	20	22	1
145°	2	4	9	13	16	1
155°	2	4	6	8	10	1
165°	2	3	4	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°	2531.0	2531.0	2531.0	2531.0	2531.0
2.5°	2545.7	2539.1	2510.3	2533.2	2526.5
5°	2542.0	2533.9	2503.7	2524.3	2516.2
7.5°	2533.9	2525.1	2490.4	2506.6	2497.7
10°	2522.1	2511.0	2471.2	2479.3	2465.3
12.5°	2507.3	2493.3	2443.8	2441.6	2426.1
15°	2485.9	2468.9	2409.9	2392.2	2370.8
17.5°	2463.8	2438.7	2366.3	2330.1	2300.6
20°	2435.0	2401.8	2306.5	2252.6	2215.7
22.5°	2401.8	2356.7	2239.3	2156.6	2118.2
25°	2360.4	2304.3	2153.7	2045.2	1994.2
27.5°	2316.1	2241.5	2060.7	1918.2	1859.8
30°	2263.0	2170.7	1944.7	1773.4	1710.7
32.5°	2206.8	2080.6	1817.7	1621.4	1552.7
35°	2136.7	1981.7	1667.1	1461.9	1397.6
37.5°	2060.7	1863.5	1518.0	1298.7	1226.4
40°	1968.4	1738.7	1354.1	1137.0	1065.4
42.5°	1876.8	1602.9	1196.8	990.8	928.8
45°	1752.8	1456.7	1041.0	842.4	793.0
47.5°	1628.0	1300.2	891.9	722.1	673.3
50°	1489.2	1146.6	761.2	606.2	565.6
52.5°	1354.1	1003.4	642.3	512.4	477.7
55°	1195.3	862.4	542.7	429.0	406.8
57.5°	1052.1	731.7	457.8	363.3	342.6
60°	900.8	620.2	383.2	307.1	287.9
62.5°	767.9	521.3	322.6	260.6	247.3
65°	640.1	434.1	273.2	221.5	209.7
67.5°	522.7	362.5	230.4	189.0	179.4
70°	419.4	293.9	194.2	161.0	154.3
72.5°	330.0	236.3	161.7	138.8	132.9
75°	257.7	187.5	135.1	119.6	115.9
77.5°	186.1	146.2	113.0	102.6	100.4
80°	131.4	110.7	93.0	88.6	87.1
82.5°	87.1	80.5	76.8	76.8	76.0
85°	50.2	56.1	62.8	65.7	66.4
87.5°	25.8	37.7	50.2	56.1	56.9
90°	7.4	23.6	42.8	50.9	52.4
92.5°	11.1	23.6	42.1	50.9	52.4
95°	11.1	23.6	42.1	50.9	52.4
97.5°	10.3	22.9	42.1	50.9	52.4
100°	9.6	21.4	41.3	50.9	52.4
102.5°	8.1	20.7	39.9	50.2	52.4
105°	7.4	19.2	37.7	49.5	51.7
107.5°	6.6	16.2	35.4	47.3	50.2
110°	5.2	14.0	34.0	45.0	48.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	4.4	12.6	31.7	42.8	46.5
115°	3.7	11.1	29.5	40.6	44.3
117.5°	3.0	10.3	26.6	37.7	41.3
120°	2.2	9.6	24.4	35.4	38.4
122.5°	2.2	8.9	21.4	32.5	35.4
125°	2.2	7.4	19.9	29.5	32.5
127.5°	1.5	6.6	17.7	26.6	29.5
130°	1.5	6.6	16.2	24.4	26.6
132.5°	1.5	5.9	14.8	22.1	24.4
135°	1.5	5.9	13.3	19.9	22.1
137.5°	1.5	5.2	11.8	18.5	20.7
140°	1.5	5.2	11.1	16.2	18.5
142.5°	1.5	4.4	9.6	15.5	17.0
145°	1.5	4.4	8.9	13.3	15.5
147.5°	1.5	4.4	8.1	12.6	14.0
150°	1.5	3.7	7.4	10.3	12.6
152.5°	1.5	3.7	6.6	9.6	11.8
155°	1.5	3.7	5.9	8.1	10.3
157.5°	1.5	3.7	5.9	7.4	8.9
160°	2.2	3.0	5.2	6.6	8.1
162.5°	2.2	3.0	4.4	5.9	7.4
165°	2.2	3.0	4.4	5.2	6.6
167.5°	2.2	3.0	3.7	4.4	5.2
170°	2.2	2.2	3.7	3.7	3.7
172.5°	2.2	2.2	3.0	3.7	3.0
175°	2.2	2.2	3.0	3.0	3.0
177.5°	2.2	2.2	3.0	3.0	3.0
180°	2.2	2.2	2.2	2.2	2.2



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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	20.02	21.42	20.43	21.79	22.17	15.32	16.71	15.73	17.08	17.47
	3H	21.12	22.36	21.54	22.75	23.18	16.46	17.70	16.88	18.09	18.52
	4H	21.42	22.59	21.87	22.99	23.44	16.96	18.12	17.41	18.53	18.98
	6H	21.57	22.64	22.03	23.07	23.52	17.46	18.53	17.92	18.96	19.42
	8H	21.59	22.61	22.06	23.05	23.52	17.72	18.74	18.19	19.18	19.65
	12H	21.58	22.56	22.06	22.99	23.49	18.01	18.99	18.49	19.43	19.92
4H	2H	20.01	21.17	20.45	21.58	22.02	15.82	16.98	16.26	17.39	17.83
	3H	21.24	22.20	21.70	22.66	23.13	17.13	18.09	17.59	18.55	19.01
	4H	21.63	22.49	22.11	22.96	23.46	17.72	18.59	18.20	19.06	19.56
	6H	21.86	22.61	22.36	23.10	23.63	18.35	19.10	18.85	19.59	20.11
	8H	21.90	22.60	22.41	23.10	23.63	18.67	19.37	19.18	19.86	20.39
	12H	21.91	22.54	22.44	23.07	23.60	19.04	19.67	19.57	20.19	20.73
8H	4H	21.61	22.32	22.12	22.81	23.34	17.96	18.67	18.47	19.16	19.69
	6H	21.89	22.47	22.43	23.01	23.55	18.69	19.27	19.23	19.81	20.35
	8H	21.96	22.49	22.52	23.04	23.59	19.09	19.61	19.65	20.17	20.72
	12H	22.01	22.47	22.57	23.01	23.64	19.58	20.05	20.14	20.59	21.21
12H	4H	21.59	22.22	22.12	22.75	23.28	17.98	18.60	18.51	19.13	19.67
	6H	21.87	22.39	22.43	22.95	23.50	18.72	19.25	19.28	19.80	20.36
	8H	21.98	22.44	22.53	22.98	23.61	19.18	19.65	19.74	20.19	20.81