

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: P892778

Luminaire Tested: 2MB-4HL-RND-UNV-L935

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892778
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2403-334-7)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-4HL-RND-UNV-L935
Description: 4000 Lumen 2FT MICROBAY LINEAR BAY with ROUND FROSTED LENS, 90CRI, 3500K CCT
Light Source: -
Ballast/Driver: -

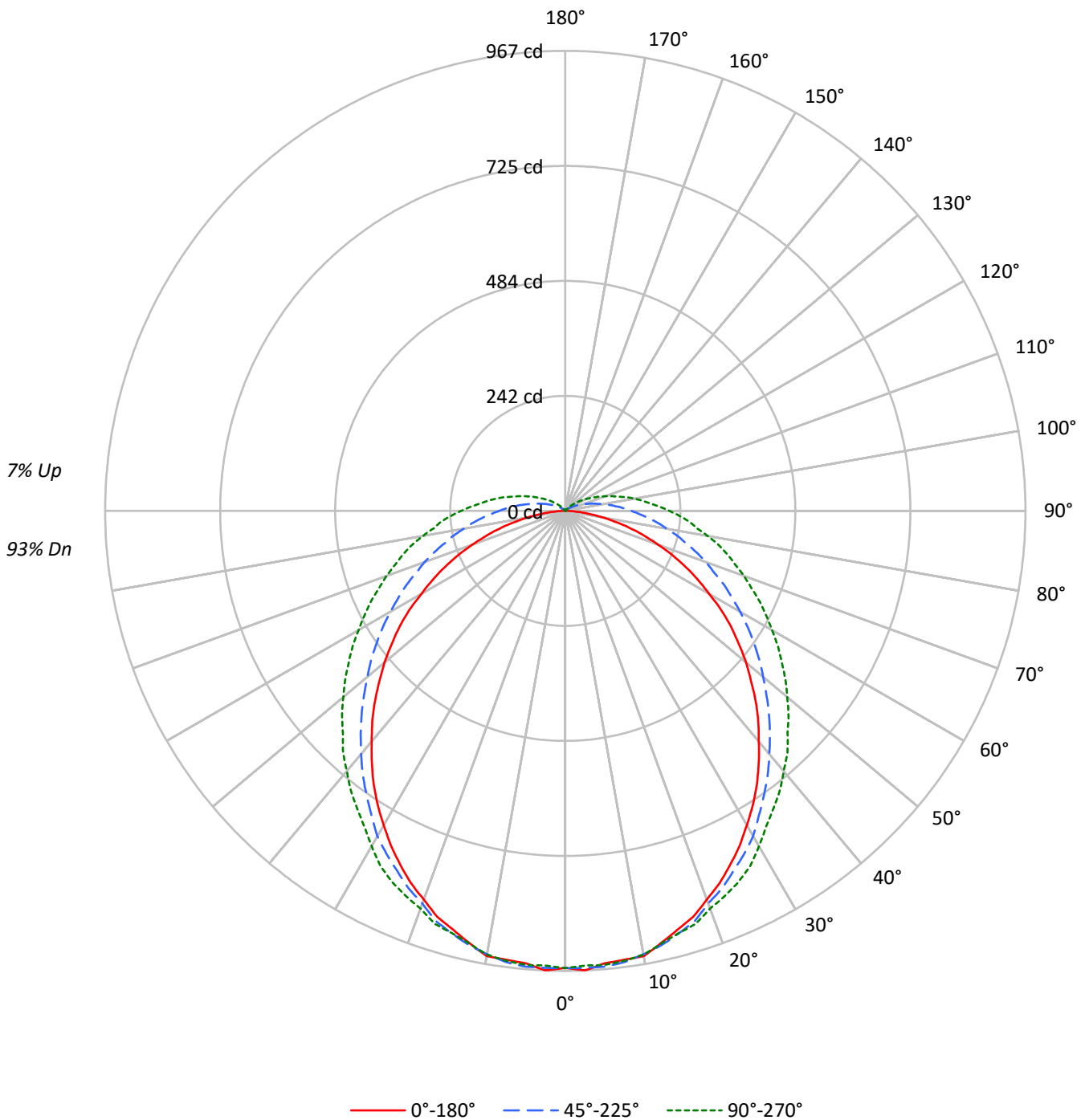
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3131.9 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.34
Luminous Opening: Rectangular (W 0.38' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 27.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 6.5
Total Harmonic Distortion (THDi): 0.99
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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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.0	2.9
10°-20°	258.9	8.3
20°-30°	386.2	12.3
30°-40°	457.2	14.6
40°-50°	471.0	15.0
50°-60°	435.5	13.9
60°-70°	361.9	11.6
70°-80°	270.8	8.6
80°-90°	179.5	5.7
90°-100°	109.8	3.5
100°-110°	62.1	2.0
110°-120°	30.9	1.0
120°-130°	12.7	0.4
130°-140°	3.7	0.1
140°-150°	0.6	0.0
150°-160°	0.1	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	736.1	23.5
0°-40°	1193.3	38.1
0°-60°	2099.7	67.0
0°-90°	2911.9	93.0
90°-120°	202.7	6.5
90°-150°	219.8	7.0
90°-180°	220.0	7.0
0°-180°	3131.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	961	961	961	961	961	
5°	954	949	962	959	958	91
15°	911	911	920	928	919	257
25°	820	823	836	852	861	378
35°	702	709	728	759	763	438
45°	566	572	605	648	661	436
55°	425	435	484	536	556	379
65°	279	301	368	426	451	276
75°	142	184	262	326	353	151
85°	32	94	176	237	262	37
90°	3	61	139	196	219	3
95°	1	38	108	162	179	1
105°	1	13	59	100	115	1
115°	1	4	28	56	68	1
125°	1	1	11	27	34	1
135°	1	1	3	9	12	1
145°	1	1	0	1	1	0
155°	1	1	0	0	0	0
165°	1	1	0	0	0	0
175°	1	1	0	0	0	0
180°	1	1	1	1	1	



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CATALOG NUMBER: 2MB-4HL-RND-UNV-L935

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	960.9	960.9	960.9	960.9	960.9
2.5°	966.6	955.1	961.6	960.1	956.5
5°	954.4	949.3	961.6	958.7	958.0
7.5°	951.5	949.3	956.5	953.7	953.7
10°	950.1	935.7	946.5	953.7	947.2
12.5°	930.6	927.0	934.9	935.7	931.3
15°	911.2	911.2	919.8	928.5	919.1
17.5°	894.6	893.2	904.0	910.5	910.5
20°	869.4	871.6	878.1	890.3	889.6
22.5°	847.1	852.9	859.4	873.8	875.9
25°	820.5	823.4	835.6	851.5	860.8
27.5°	793.2	797.5	813.3	830.6	841.4
30°	762.9	762.9	789.6	809.7	814.0
32.5°	733.4	734.1	757.9	780.2	786.0
35°	701.7	708.9	728.4	758.6	762.9
37.5°	667.9	672.2	698.9	726.2	740.6
40°	632.7	639.9	667.2	705.3	714.0
42.5°	600.3	606.0	636.3	675.8	691.0
45°	565.7	571.5	605.3	647.8	660.7
47.5°	529.7	536.9	573.6	624.0	636.3
50°	495.9	501.7	542.7	593.8	608.9
52.5°	459.9	469.3	513.9	563.6	583.0
55°	425.4	435.4	483.7	536.2	555.6
57.5°	389.4	403.1	454.2	508.9	529.7
60°	349.1	367.1	424.6	482.9	501.7
62.5°	314.5	334.0	395.1	452.7	475.7
65°	279.3	300.9	368.5	426.1	450.6
67.5°	244.0	269.9	338.3	399.5	423.2
70°	208.0	241.1	314.5	375.7	399.5
72.5°	174.2	211.6	288.6	352.7	374.3
75°	142.5	183.5	262.0	326.0	352.7
77.5°	110.8	158.3	241.1	305.9	329.6
80°	80.6	133.9	216.6	281.4	303.7
82.5°	55.4	113.0	197.2	259.8	278.5
85°	32.4	94.3	176.3	236.8	262.0
87.5°	15.1	76.3	156.2	215.9	240.4
90°	2.9	61.2	138.9	195.8	218.8
92.5°	0.7	48.9	123.8	179.9	198.6
95°	0.7	38.1	108.0	161.9	179.2
97.5°	0.7	29.5	94.3	145.4	164.1
100°	0.7	22.3	81.3	130.3	147.5
102.5°	0.7	17.3	69.1	114.4	132.4
105°	0.7	13.0	59.0	100.0	115.2
107.5°	0.7	9.4	49.7	88.5	102.9
110°	0.7	7.2	41.7	77.7	90.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.7	5.0	33.8	66.2	78.5
115°	0.7	3.6	28.1	56.1	67.7
117.5°	0.7	2.2	22.3	47.5	57.6
120°	0.7	1.4	18.0	39.6	48.9
122.5°	0.7	1.4	13.7	32.4	41.0
125°	0.7	0.7	10.8	26.6	33.8
127.5°	0.7	0.7	7.9	20.9	26.6
130°	0.7	0.7	5.8	15.8	20.9
132.5°	0.7	0.7	3.6	12.2	15.8
135°	0.7	0.7	2.9	8.6	12.2
137.5°	0.7	0.7	1.4	5.8	7.9
140°	0.7	0.7	0.7	3.6	5.0
142.5°	0.7	0.7	0.7	2.2	2.9
145°	0.7	0.7	0.0	0.7	1.4
147.5°	0.7	0.7	0.0	0.7	0.7
150°	0.7	0.7	0.0	0.0	0.0
152.5°	0.7	0.7	0.0	0.0	0.0
155°	0.7	0.7	0.0	0.0	0.0
157.5°	0.7	0.7	0.0	0.0	0.0
160°	0.7	0.7	0.0	0.0	0.0
162.5°	0.7	0.7	0.0	0.0	0.0
165°	0.7	0.7	0.0	0.0	0.0
167.5°	0.7	0.7	0.0	0.0	0.0
170°	0.7	0.7	0.0	0.0	0.0
172.5°	1.4	0.7	0.0	0.0	0.0
175°	1.4	0.7	0.0	0.0	0.0
177.5°	1.4	0.7	0.0	0.0	0.0
180°	0.7	0.7	0.7	0.7	0.7



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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	19.19	20.72	19.66	21.18	21.67	20.93	22.46	21.40	22.92	23.40
	3H	20.92	22.32	21.41	22.79	23.32	23.50	24.90	23.98	25.36	25.89
	4H	21.57	22.90	22.08	23.38	23.92	24.80	26.13	25.30	26.61	27.15
	6H	22.04	23.28	22.56	23.77	24.33	26.20	27.43	26.71	27.93	28.48
	8H	22.19	23.37	22.72	23.89	24.46	26.92	28.11	27.45	28.63	29.19
	12H	22.28	23.42	22.82	23.94	24.53	27.77	28.91	28.30	29.42	30.01
4H	2H	20.17	21.49	20.67	21.98	22.52	21.48	22.81	21.98	23.29	23.83
	3H	22.17	23.31	22.69	23.83	24.40	24.34	25.47	24.86	26.00	26.56
	4H	22.97	24.01	23.51	24.55	25.14	25.86	26.89	26.39	27.43	28.03
	6H	23.61	24.53	24.17	25.09	25.70	27.49	28.41	28.05	28.97	29.58
	8H	23.84	24.70	24.40	25.26	25.88	28.35	29.21	28.91	29.78	30.40
	12H	24.00	24.79	24.59	25.38	26.01	29.34	30.13	29.93	30.72	31.35
8H	4H	23.85	24.71	24.41	25.28	25.90	26.22	27.08	26.78	27.64	28.26
	6H	24.76	25.50	25.36	26.10	26.73	28.11	28.84	28.70	29.45	30.07
	8H	25.14	25.81	25.75	26.42	27.06	29.17	29.84	29.78	30.45	31.09
	12H	25.46	26.05	26.07	26.66	27.36	30.43	31.02	31.03	31.62	32.33
12H	4H	24.12	24.91	24.71	25.50	26.13	26.26	27.04	26.84	27.63	28.26
	6H	25.20	25.87	25.81	26.48	27.12	28.21	28.88	28.82	29.49	30.13
	8H	25.74	26.34	26.35	26.94	27.64	29.39	29.99	30.00	30.59	31.30