

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: P892774

Luminaire Tested: 2MB-4HL-RND-UNV-L835

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892774
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-L835
Description: 4000 Lumen 2FT MICROBAY LINEAR BAY with ROUND FROSTED LENS, 80CRI, 3500K CCT
Light Source: -
Ballast/Driver: -

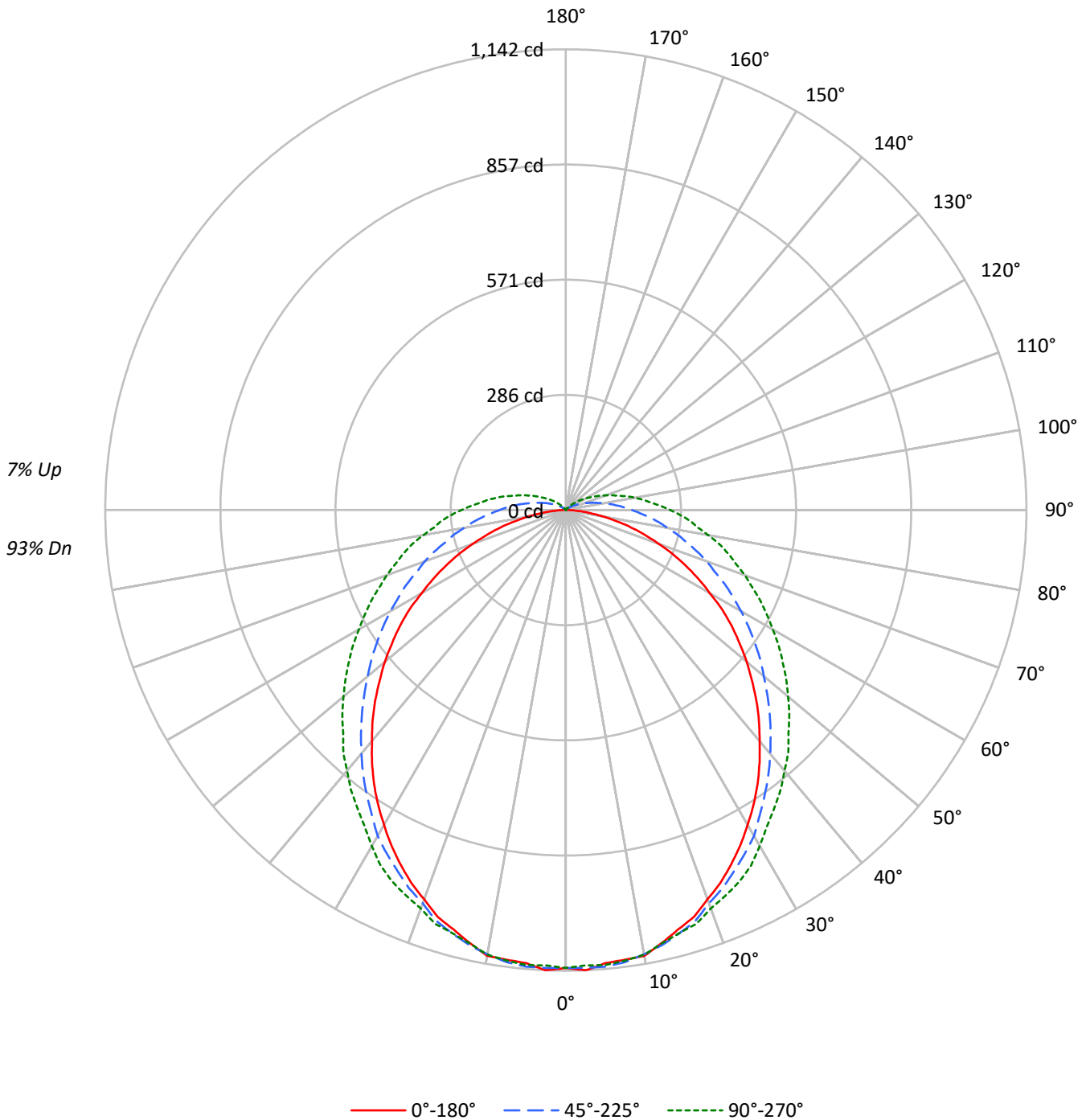
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3700.1 lumens
Efficiency: N/A
Efficacy: 134.1 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

TEST NUMBER: P892774
CATALOG NUMBER: 2MB-4HL-RND-UNV-L835

Luminous Intensity Polar Plot





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.5	2.9
10°-20°	305.9	8.3
20°-30°	456.2	12.3
30°-40°	540.1	14.6
40°-50°	556.4	15.0
50°-60°	514.5	13.9
60°-70°	427.6	11.6
70°-80°	319.9	8.6
80°-90°	212.0	5.7
90°-100°	129.7	3.5
100°-110°	73.3	2.0
110°-120°	36.5	1.0
120°-130°	15.1	0.4
130°-140°	4.5	0.1
140°-150°	0.7	0.0
150°-160°	0.2	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	869.6	23.5
0°-40°	1409.7	38.1
0°-60°	2480.5	67.0
0°-90°	3440.0	93.0
90°-120°	239.6	6.5
90°-150°	259.9	7.0
90°-180°	260.0	7.0
0°-180°	3700.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1135	1135	1135	1135	1135	
5°	1128	1122	1136	1133	1132	108
15°	1076	1076	1087	1097	1086	304
25°	969	973	987	1006	1017	446
35°	829	838	860	896	901	518
45°	668	675	715	765	780	515
55°	502	514	571	634	656	448
65°	330	355	435	503	532	326
75°	168	217	310	385	417	178
85°	38	111	208	280	310	44
90°	3	72	164	231	258	4
95°	1	45	128	191	212	1
105°	1	15	70	118	136	1
115°	1	4	33	66	80	1
125°	1	1	13	32	40	1
135°	1	1	3	10	14	1
145°	1	1	0	1	2	1
155°	1	1	0	0	0	0
165°	1	1	0	0	0	0
175°	2	1	0	0	0	0
180°	1	1	1	1	1	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1135.1	1135.1	1135.1	1135.1	1135.1
2.5°	1141.9	1128.3	1136.0	1134.3	1130.0
5°	1127.5	1121.5	1136.0	1132.6	1131.7
7.5°	1124.1	1121.5	1130.0	1126.6	1126.6
10°	1122.4	1105.4	1118.1	1126.6	1119.0
12.5°	1099.4	1095.1	1104.5	1105.4	1100.3
15°	1076.4	1076.4	1086.6	1096.8	1085.8
17.5°	1056.9	1055.2	1067.9	1075.6	1075.6
20°	1027.1	1029.7	1037.3	1051.8	1050.9
22.5°	1000.8	1007.6	1015.2	1032.2	1034.8
25°	969.3	972.7	987.2	1005.9	1016.9
27.5°	937.0	942.1	960.8	981.2	994.0
30°	901.3	901.3	932.7	956.6	961.7
32.5°	866.4	867.3	895.3	921.7	928.5
35°	829.0	837.5	860.5	896.2	901.3
37.5°	789.1	794.2	825.6	857.9	874.9
40°	747.4	755.9	788.2	833.3	843.5
42.5°	709.1	715.9	751.6	798.4	816.3
45°	668.3	675.1	715.1	765.2	780.5
47.5°	625.8	634.3	677.7	737.2	751.6
50°	585.8	592.6	641.1	701.5	719.3
52.5°	543.3	554.4	607.1	665.8	688.7
55°	502.5	514.4	571.4	633.5	656.4
57.5°	460.0	476.2	536.5	601.1	625.8
60°	412.4	433.6	501.7	570.5	592.6
62.5°	371.6	394.5	466.8	534.8	562.0
65°	329.9	355.4	435.3	503.4	532.3
67.5°	288.2	318.9	399.6	471.9	500.0
70°	245.7	284.8	371.6	443.8	471.9
72.5°	205.8	250.0	341.0	416.6	442.1
75°	168.4	216.8	309.5	385.2	416.6
77.5°	130.9	187.1	284.8	361.4	389.4
80°	95.2	158.2	255.9	332.5	358.8
82.5°	65.5	133.5	233.0	306.9	329.1
85°	38.3	111.4	208.3	279.7	309.5
87.5°	17.9	90.1	184.5	255.1	284.0
90°	3.4	72.3	164.1	231.3	258.5
92.5°	0.9	57.8	146.2	212.6	234.7
95°	0.9	45.1	127.5	191.3	211.7
97.5°	0.9	34.9	111.4	171.8	193.9
100°	0.9	26.4	96.1	153.9	174.3
102.5°	0.9	20.4	81.6	135.2	156.4
105°	0.9	15.3	69.7	118.2	136.0
107.5°	0.9	11.1	58.7	104.6	121.6
110°	0.9	8.5	49.3	91.8	106.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.9	6.0	40.0	78.2	92.7
115°	0.9	4.3	33.2	66.3	79.9
117.5°	0.9	2.6	26.4	56.1	68.0
120°	0.9	1.7	21.3	46.8	57.8
122.5°	0.9	1.7	16.2	38.3	48.5
125°	0.9	0.9	12.8	31.5	40.0
127.5°	0.9	0.9	9.4	24.7	31.5
130°	0.9	0.9	6.8	18.7	24.7
132.5°	0.9	0.9	4.3	14.5	18.7
135°	0.9	0.9	3.4	10.2	14.5
137.5°	0.9	0.9	1.7	6.8	9.4
140°	0.9	0.9	0.9	4.3	6.0
142.5°	0.9	0.9	0.9	2.6	3.4
145°	0.9	0.9	0.0	0.9	1.7
147.5°	0.9	0.9	0.0	0.9	0.9
150°	0.9	0.9	0.0	0.0	0.0
152.5°	0.9	0.9	0.0	0.0	0.0
155°	0.9	0.9	0.0	0.0	0.0
157.5°	0.9	0.9	0.0	0.0	0.0
160°	0.9	0.9	0.0	0.0	0.0
162.5°	0.9	0.9	0.0	0.0	0.0
165°	0.9	0.9	0.0	0.0	0.0
167.5°	0.9	0.9	0.0	0.0	0.0
170°	0.9	0.9	0.0	0.0	0.0
172.5°	1.7	0.9	0.0	0.0	0.0
175°	1.7	0.9	0.0	0.0	0.0
177.5°	1.7	0.9	0.0	0.0	0.0
180°	0.9	0.9	0.9	0.9	0.9



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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	19.77	21.30	20.24	21.76	22.25	21.50	23.04	21.97	23.49	23.98
	3H	21.50	22.90	21.99	23.37	23.90	24.08	25.47	24.56	25.94	26.47
	4H	22.15	23.48	22.65	23.96	24.50	25.38	26.70	25.88	27.19	27.73
	6H	22.62	23.86	23.14	24.35	24.91	26.77	28.01	27.29	28.51	29.06
	8H	22.77	23.95	23.30	24.47	25.03	27.50	28.69	28.03	29.21	29.77
	12H	22.86	24.00	23.40	24.52	25.11	28.35	29.49	28.88	30.00	30.59
4H	2H	20.74	22.07	21.25	22.55	23.09	22.06	23.38	22.56	23.87	24.41
	3H	22.75	23.89	23.27	24.41	24.98	24.92	26.05	25.44	26.58	27.14
	4H	23.55	24.59	24.09	25.13	25.72	26.44	27.47	26.97	28.01	28.61
	6H	24.19	25.11	24.75	25.67	26.28	28.07	28.99	28.63	29.55	30.16
	8H	24.41	25.28	24.98	25.84	26.46	28.93	29.79	29.49	30.36	30.98
	12H	24.58	25.37	25.16	25.96	26.58	29.92	30.71	30.51	31.30	31.93
8H	4H	24.43	25.29	24.99	25.85	26.48	26.79	27.66	27.36	28.22	28.84
	6H	25.34	26.08	25.93	26.68	27.31	28.69	29.42	29.28	30.03	30.65
	8H	25.72	26.38	26.33	27.00	27.64	29.75	30.42	30.36	31.03	31.67
	12H	26.04	26.63	26.65	27.24	27.94	31.00	31.60	31.61	32.20	32.91
12H	4H	24.70	25.49	25.28	26.08	26.70	26.83	27.62	27.42	28.21	28.84
	6H	25.78	26.45	26.39	27.06	27.70	28.79	29.46	29.40	30.07	30.71
	8H	26.32	26.91	26.93	27.52	28.22	29.97	30.57	30.58	31.17	31.88