

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: P892875

Luminaire Tested: 2MB-5HL-RND-UNV-L940

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892875
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-5HL-RND-UNV-L940
Description: 5000 Lumen 2FT MICROBAY LINEAR BAY with ROUND FROSTED LENS, 90CRI, 4000K CCT
Light Source: -
Ballast/Driver: -

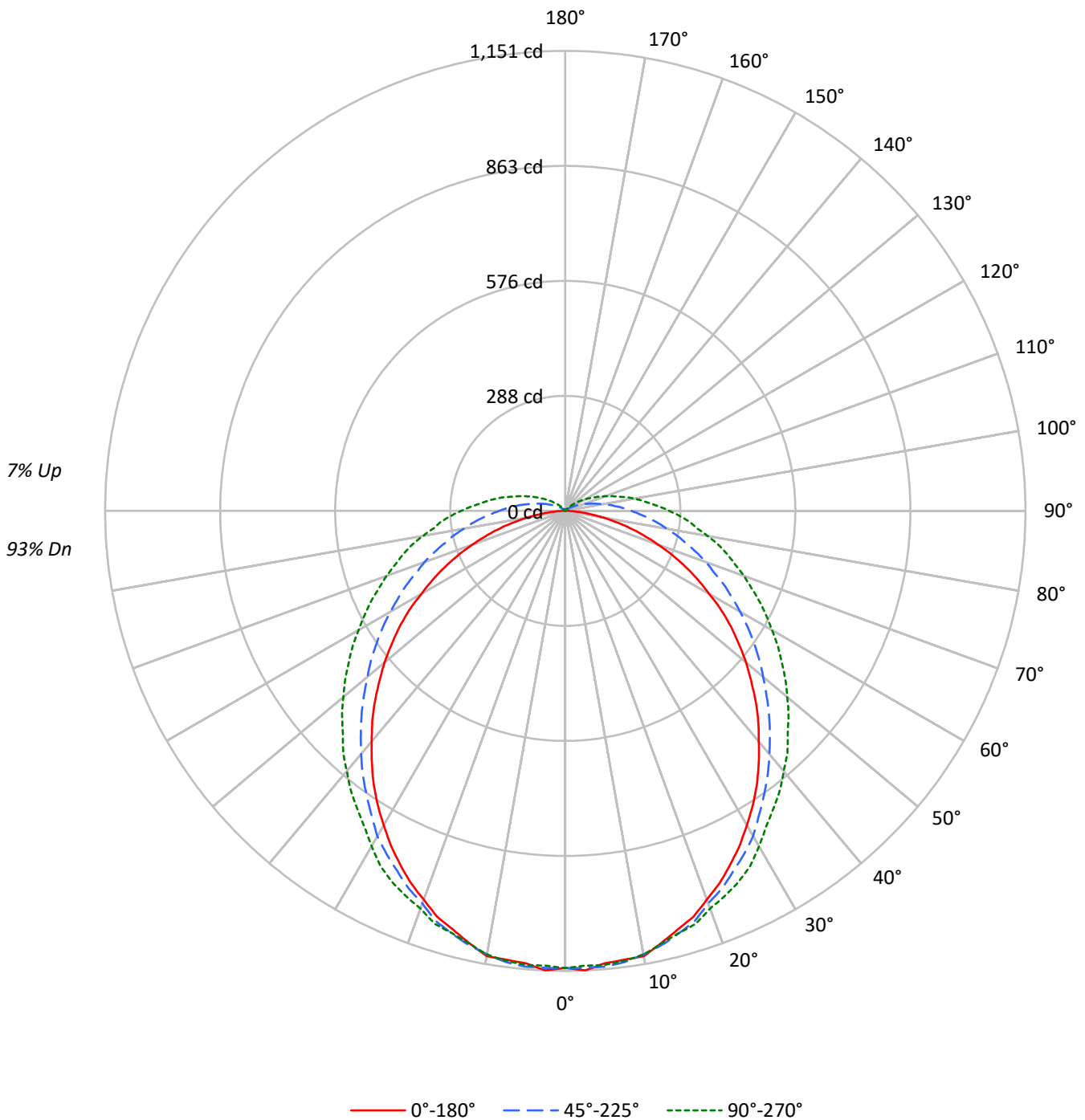
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3728.1 lumens
Efficiency: N/A
Efficacy: 110.6 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): 33.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 4.5
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°	108.3	2.9
10°-20°	308.2	8.3
20°-30°	459.7	12.3
30°-40°	544.2	14.6
40°-50°	560.6	15.0
50°-60°	518.3	13.9
60°-70°	430.8	11.6
70°-80°	322.3	8.6
80°-90°	213.6	5.7
90°-100°	130.7	3.5
100°-110°	73.9	2.0
110°-120°	36.8	1.0
120°-130°	15.2	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°	876.2	23.5
0°-40°	1420.3	38.1
0°-60°	2499.3	67.0
0°-90°	3466.0	93.0
90°-120°	241.4	6.5
90°-150°	261.8	7.0
90°-180°	262.0	7.0
0°-180°	3728.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1144	1144	1144	1144	1144	
5°	1136	1130	1145	1141	1140	108
15°	1085	1085	1095	1105	1094	306
25°	977	980	995	1014	1025	450
35°	835	844	867	903	908	522
45°	673	680	720	771	786	519
55°	506	518	576	638	661	452
65°	332	358	439	507	536	329
75°	170	218	312	388	420	179
85°	39	112	210	282	312	44
90°	3	73	165	233	260	4
95°	1	45	128	193	213	1
105°	1	15	70	119	137	1
115°	1	4	33	67	80	1
125°	1	1	13	32	40	1
135°	1	1	3	10	15	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°	1143.7	1143.7	1143.7	1143.7	1143.7
2.5°	1150.6	1136.8	1144.6	1142.8	1138.6
5°	1136.0	1130.0	1144.6	1141.1	1140.3
7.5°	1132.6	1130.0	1138.6	1135.1	1135.1
10°	1130.9	1113.7	1126.6	1135.1	1127.4
12.5°	1107.7	1103.4	1112.9	1113.7	1108.6
15°	1084.6	1084.6	1094.9	1105.1	1094.0
17.5°	1064.9	1063.2	1076.0	1083.7	1083.7
20°	1034.9	1037.5	1045.2	1059.7	1058.9
22.5°	1008.3	1015.2	1022.9	1040.0	1042.6
25°	976.6	980.1	994.6	1013.5	1024.6
27.5°	944.1	949.2	968.1	988.6	1001.5
30°	908.1	908.1	939.8	963.8	968.9
32.5°	873.0	873.8	902.1	928.7	935.5
35°	835.3	843.9	867.0	903.0	908.1
37.5°	795.0	800.2	831.9	864.4	881.5
40°	753.0	761.6	794.2	839.6	849.9
42.5°	714.5	721.3	757.3	804.4	822.4
45°	673.4	680.2	720.5	771.0	786.5
47.5°	630.5	639.1	682.8	742.8	757.3
50°	590.3	597.1	646.0	706.8	724.8
52.5°	547.4	558.6	611.7	670.8	693.9
55°	506.3	518.3	575.7	638.2	661.4
57.5°	463.5	479.8	540.6	605.7	630.5
60°	415.5	436.9	505.5	574.8	597.1
62.5°	374.4	397.5	470.3	538.9	566.3
65°	332.4	358.1	438.6	507.2	536.3
67.5°	290.4	321.3	402.7	475.5	503.7
70°	247.6	287.0	374.4	447.2	475.5
72.5°	207.3	251.9	343.5	419.8	445.5
75°	169.6	218.5	311.8	388.1	419.8
77.5°	131.9	188.5	287.0	364.1	392.4
80°	96.0	159.3	257.9	335.0	361.5
82.5°	66.0	134.5	234.7	309.3	331.5
85°	38.6	112.2	209.9	281.9	311.8
87.5°	18.0	90.8	185.9	257.0	286.1
90°	3.4	72.8	165.3	233.0	260.4
92.5°	0.9	58.3	147.4	214.2	236.5
95°	0.9	45.4	128.5	192.8	213.3
97.5°	0.9	35.1	112.2	173.1	195.3
100°	0.9	26.6	96.8	155.1	175.6
102.5°	0.9	20.6	82.2	136.2	157.6
105°	0.9	15.4	70.2	119.1	137.1
107.5°	0.9	11.1	59.1	105.4	122.5
110°	0.9	8.6	49.7	92.5	107.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.9	6.0	40.3	78.8	93.4
115°	0.9	4.3	33.4	66.8	80.5
117.5°	0.9	2.6	26.6	56.5	68.5
120°	0.9	1.7	21.4	47.1	58.3
122.5°	0.9	1.7	16.3	38.6	48.8
125°	0.9	0.9	12.9	31.7	40.3
127.5°	0.9	0.9	9.4	24.8	31.7
130°	0.9	0.9	6.9	18.8	24.8
132.5°	0.9	0.9	4.3	14.6	18.8
135°	0.9	0.9	3.4	10.3	14.6
137.5°	0.9	0.9	1.7	6.9	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	19.80	21.33	20.27	21.79	22.27	21.53	23.06	22.00	23.52	24.01
	3H	21.53	22.93	22.01	23.40	23.92	24.10	25.50	24.58	25.97	26.49
	4H	22.18	23.50	22.68	23.99	24.53	25.40	26.73	25.91	27.21	27.75
	6H	22.65	23.88	23.16	24.38	24.94	26.80	28.04	27.32	28.53	29.09
	8H	22.79	23.98	23.32	24.50	25.06	27.53	28.71	28.06	29.24	29.80
	12H	22.89	24.03	23.43	24.54	25.13	28.37	29.51	28.91	30.03	30.62
4H	2H	20.77	22.10	21.27	22.58	23.12	22.08	23.41	22.59	23.89	24.43
	3H	22.78	23.91	23.30	24.44	25.00	24.95	26.08	25.46	26.61	27.17
	4H	23.58	24.61	24.11	25.15	25.75	26.46	27.50	27.00	28.04	28.63
	6H	24.22	25.13	24.77	25.70	26.31	28.10	29.01	28.65	29.58	30.19
	8H	24.44	25.30	25.00	25.87	26.49	28.95	29.82	29.52	30.38	31.00
	12H	24.61	25.39	25.19	25.98	26.61	29.95	30.73	30.53	31.33	31.95
8H	4H	24.45	25.32	25.01	25.88	26.50	26.82	27.68	27.38	28.25	28.87
	6H	25.37	26.10	25.96	26.71	27.33	28.71	29.45	29.31	30.05	30.68
	8H	25.75	26.41	26.35	27.03	27.67	29.78	30.44	30.38	31.06	31.70
	12H	26.07	26.66	26.67	27.26	27.97	31.03	31.62	31.64	32.23	32.93
12H	4H	24.73	25.51	25.31	26.10	26.73	26.86	27.65	27.44	28.24	28.86
	6H	25.81	26.47	26.41	27.09	27.73	28.82	29.48	29.43	30.10	30.74
	8H	26.35	26.94	26.95	27.54	28.25	30.00	30.59	30.61	31.20	31.90