

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: P892551

Luminaire Tested: 2MB-2SL-LVRF-UNV-L840

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892551
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-2SL-LVRF-UNV-L840
Description: 2000 Lumen 2FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 80CRI, 4000K C
Light Source: -
Ballast/Driver: -

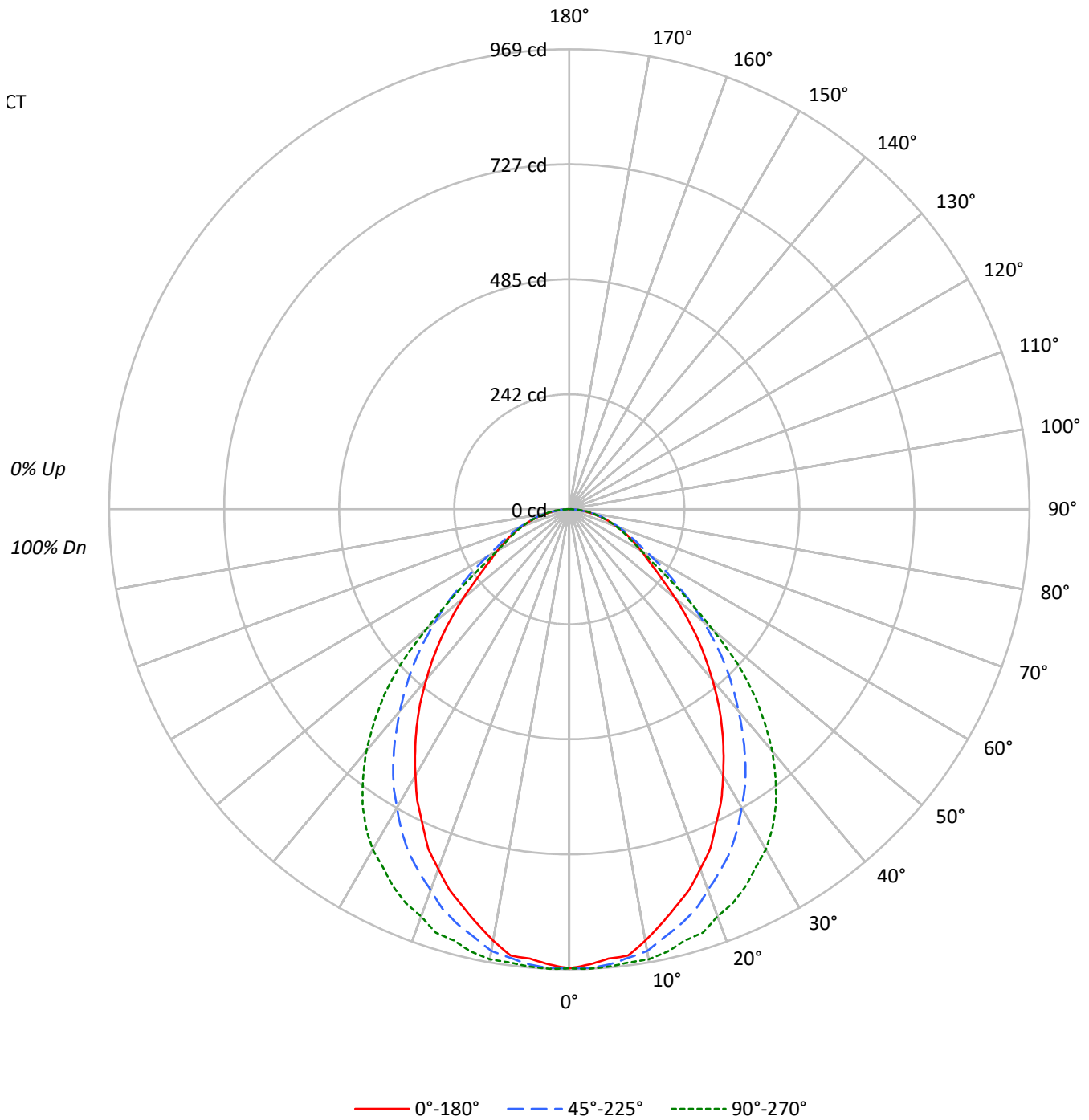
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1960.0 lumens
Efficiency: N/A
Efficacy: 131.5 lumens/watt
Spacing Criteria (0/90/45): 1.04 / 1.26 / 1.21
Luminous Opening: Rectangular (W 0.38' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 14.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 5.92
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			
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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	110	106	102	99	108	104	100	97	100	97	94	96	94	91	92	90	89	87	87	87
2	102	94	88	83	99	93	87	82	89	84	80	86	82	79	83	80	77	75	75	75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65	65	65
4	87	76	68	62	84	75	67	62	72	66	61	70	64	60	68	63	59	57	57	57
5	80	69	61	54	78	68	60	54	66	59	54	64	58	53	62	57	53	51	51	51
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	45	45	45
7	70	57	49	43	68	56	49	43	55	48	43	54	47	43	52	47	42	41	41	41
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	37	37	37
9	61	49	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	33	33	33
10	57	45	38	33	56	45	37	33	44	37	32	43	37	32	42	36	32	31	31	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13835	13835	13835
5°	13644	13823	13888
10°	13399	13723	13983
15°	12827	13409	13926
20°	12273	12995	13892
25°	11540	12612	13840
30°	10704	11988	13671
35°	9787	11285	13252
40°	8745	10364	12419
45°	7668	9403	11103
50°	6485	8194	8733
55°	5484	6889	6397
60°	5013	5754	5038
65°	4749	5054	4570
70°	4450	4672	4375
75°	4151	4394	4201
80°	3831	4127	4053
85°	3381	3660	4399

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 11103 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.3	4.7
10°-20°	255.3	13.0
20°-30°	368.0	18.8
30°-40°	405.9	20.7
40°-50°	355.3	18.1
50°-60°	233.5	11.9
60°-70°	142.7	7.3
70°-80°	82.6	4.2
80°-90°	25.6	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	714.5	36.5
0°-40°	1120.4	57.2
0°-60°	1709.2	87.2
0°-90°	1960.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1960.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	967	967	967	967	967	
5°	950	960	963	968	967	90
15°	866	880	905	935	940	244
25°	731	756	799	847	877	336
35°	560	584	646	718	759	349
45°	379	402	465	522	549	292
55°	220	232	276	277	256	200
65°	140	140	149	143	135	139
75°	75	75	80	81	76	80
85°	21	21	22	24	27	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	967.1	967.1	967.1	967.1	967.1
2.5°	959.9	965.3	967.1	970.6	968.9
5°	950.1	959.9	962.6	968.0	967.1
7.5°	948.3	944.7	952.8	963.5	962.6
10°	922.4	929.5	944.7	960.8	962.6
12.5°	894.7	906.3	923.3	951.0	954.6
15°	866.1	880.4	905.4	934.9	940.3
17.5°	840.2	854.5	883.9	917.0	934.9
20°	806.2	825.9	853.6	894.7	912.5
22.5°	774.9	791.0	826.7	871.4	898.2
25°	731.1	756.1	799.0	847.3	876.8
27.5°	692.7	715.9	764.2	817.8	850.0
30°	648.0	673.9	725.7	785.6	827.6
32.5°	604.2	628.3	689.1	750.8	796.4
35°	560.4	584.5	646.2	717.7	758.8
37.5°	515.7	540.7	600.6	673.9	713.2
40°	468.3	496.9	555.0	627.4	665.0
42.5°	423.7	450.5	509.5	580.1	608.7
45°	379.0	402.2	464.8	522.0	548.8
47.5°	334.3	356.6	416.5	463.9	479.1
50°	291.4	311.9	368.2	397.7	392.4
52.5°	251.2	269.9	323.5	335.2	320.0
55°	219.9	231.5	276.2	277.1	256.5
57.5°	193.9	202.9	237.7	228.8	206.5
60°	175.2	177.9	201.1	191.3	176.1
62.5°	156.4	158.2	170.7	163.6	151.9
65°	140.3	140.3	149.3	143.0	135.0
67.5°	122.4	123.3	129.6	126.0	119.8
70°	106.4	106.4	111.7	111.7	104.6
72.5°	90.3	90.3	94.7	95.6	91.2
75°	75.1	75.1	79.5	81.3	76.0
77.5°	60.8	60.8	64.4	67.0	60.8
80°	46.5	46.5	50.1	52.7	49.2
82.5°	33.1	34.0	35.8	38.4	38.4
85°	20.6	20.6	22.3	24.1	26.8
87.5°	8.9	9.8	10.7	11.6	13.4
90°	0.0	0.0	0.0	0.0	0.0



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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	16.54	18.02	16.91	18.33	18.64	17.29	18.76	17.65	19.07	19.39
	3H	18.14	19.46	18.52	19.79	20.15	18.63	19.95	19.00	20.27	20.64
	4H	18.76	19.99	19.16	20.34	20.72	19.20	20.44	19.60	20.79	21.16
	6H	19.23	20.37	19.65	20.74	21.13	19.66	20.80	20.07	21.16	21.56
	8H	19.39	20.48	19.82	20.87	21.27	19.84	20.92	20.26	21.31	21.72
	12H	19.50	20.54	19.93	20.92	21.35	19.99	21.03	20.42	21.41	21.84
4H	2H	17.17	18.40	17.57	18.75	19.13	17.77	19.00	18.17	19.35	19.73
	3H	18.97	20.00	19.39	20.40	20.80	19.37	20.39	19.78	20.80	21.20
	4H	19.71	20.63	20.14	21.05	21.49	20.10	21.02	20.53	21.44	21.88
	6H	20.31	21.11	20.77	21.55	22.02	20.71	21.51	21.17	21.95	22.41
	8H	20.51	21.26	20.98	21.71	22.18	20.95	21.70	21.41	22.14	22.61
	12H	20.66	21.33	21.15	21.81	22.28	21.15	21.82	21.63	22.30	22.77
8H	4H	20.02	20.77	20.49	21.21	21.68	20.36	21.11	20.83	21.56	22.03
	6H	20.75	21.37	21.24	21.86	22.34	21.12	21.74	21.62	22.23	22.71
	8H	21.03	21.59	21.54	22.10	22.59	21.45	22.00	21.96	22.52	23.00
	12H	21.25	21.75	21.76	22.24	22.81	21.74	22.23	22.25	22.73	23.29
12H	4H	20.06	20.72	20.54	21.20	21.68	20.38	21.05	20.87	21.53	22.00
	6H	20.81	21.37	21.33	21.88	22.37	21.17	21.73	21.68	22.24	22.73
	8H	21.15	21.65	21.66	22.14	22.71	21.56	22.05	22.07	22.54	23.11