

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: P892564

Luminaire Tested: 2MB-2SL-RFLW-UNV-L950

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892564
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2408-210-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-2SL-RFLW-UNV-L950
Description: 2000 Lumen 2FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 90CRI, 5000K
Light Source: -
Ballast/Driver: -

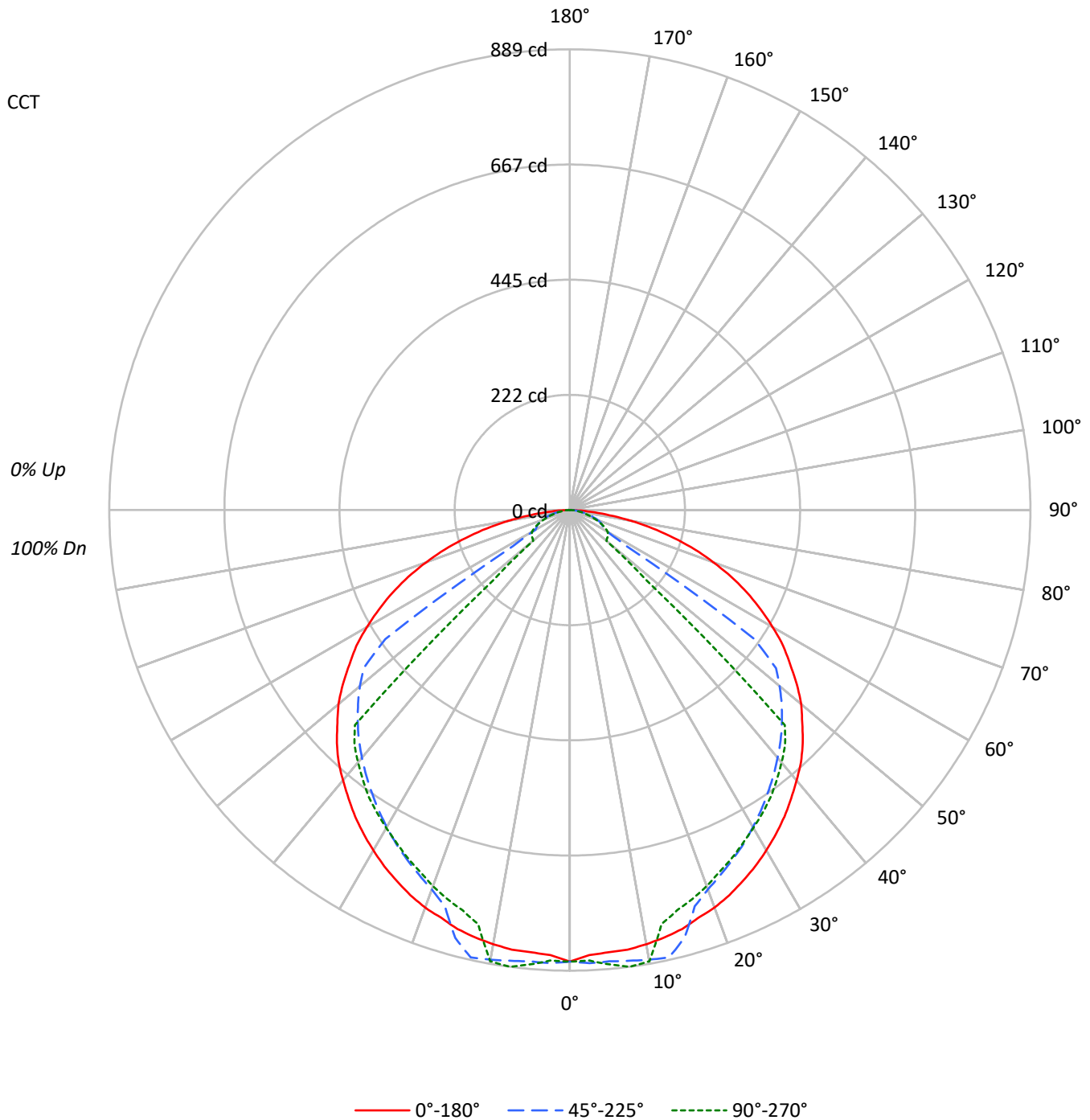
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2046.0 lumens
Efficiency: N/A
Efficacy: 137.3 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.22 / 1.37
Luminous Opening: Rectangular (W 0.21' 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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	110	106	102	99	108	104	101	98	100	97	94	96	94	92	92	91	89	89	89	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	77	77	77	75
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	67	67	67	67	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	58	58	58	56
5	80	68	59	53	77	67	59	53	64	58	52	63	57	52	61	55	51	51	51	51	49
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46	46	46	46	44
7	69	56	48	42	67	55	47	42	53	46	41	52	46	41	51	45	41	41	41	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	42	37	47	41	37	37	37	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	37	33	33	33	33	32
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	30	30	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22748	22748	22748
5°	22449	22913	23068
10°	22553	23359	23438
15°	22623	23099	21615
20°	22682	21646	21454
25°	22755	21427	21340
30°	22866	21299	21356
35°	23018	21236	21549
40°	23210	21270	21669
45°	23475	21374	21666
50°	23671	21482	3745
55°	23628	19787	4065
60°	23617	3995	4407
65°	23339	4244	4361
70°	22542	4420	4046
75°	20982	4156	3561
80°	17997	3684	3097
85°	12042	3535	2636

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 23742 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.5	4.1
10°-20°	235.4	11.5
20°-30°	352.3	17.2
30°-40°	424.8	20.8
40°-50°	427.7	20.9
50°-60°	266.8	13.0
60°-70°	167.8	8.2
70°-80°	69.8	3.4
80°-90°	17.9	0.9
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°	671.2	32.8
0°-40°	1096.0	53.6
0°-60°	1790.6	87.5
0°-90°	2046.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2046.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	871	871	871	871	871	
5°	857	874	874	875	880	82
15°	837	862	855	800	800	236
25°	790	820	744	738	741	365
35°	722	676	666	670	676	452
45°	636	575	579	587	587	490
55°	519	457	435	85	89	465
65°	378	327	69	72	71	372
75°	208	50	41	36	35	220
85°	40	15	12	9	9	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	871.3	871.3	871.3	871.3	871.3
2.5°	859.6	875.3	875.3	871.3	870.3
5°	856.6	874.3	874.3	875.3	880.2
7.5°	855.6	872.3	877.2	883.1	889.0
10°	850.7	870.3	881.1	889.0	884.1
12.5°	844.8	866.4	884.1	834.0	818.3
15°	837.0	862.5	854.6	799.7	799.7
17.5°	825.2	856.6	801.7	786.0	786.9
20°	816.4	851.7	779.1	770.3	772.2
22.5°	804.6	841.9	761.4	753.6	755.5
25°	789.9	820.3	743.8	737.9	740.8
27.5°	775.2	776.1	726.1	722.2	724.1
30°	758.5	734.0	706.5	705.5	708.4
32.5°	740.8	702.6	686.9	688.8	692.7
35°	722.2	676.1	666.3	670.2	676.1
37.5°	701.6	651.5	645.6	652.5	656.4
40°	681.0	626.0	624.1	630.9	635.8
42.5°	660.4	601.5	602.5	609.3	615.2
45°	635.8	575.0	578.9	586.8	586.8
47.5°	608.4	546.5	554.4	537.7	199.2
50°	582.8	518.1	528.9	159.0	92.2
52.5°	552.4	487.7	501.4	87.3	90.3
55°	519.1	457.3	434.7	85.4	89.3
57.5°	488.6	425.9	129.5	84.4	87.3
60°	452.3	394.5	76.5	82.4	84.4
62.5°	415.1	361.1	72.6	78.5	78.5
65°	377.8	326.7	68.7	71.6	70.6
67.5°	337.5	291.4	64.8	62.8	61.8
70°	295.3	179.6	57.9	54.0	53.0
72.5°	253.2	61.8	50.0	45.1	44.2
75°	208.0	50.0	41.2	36.3	35.3
77.5°	163.9	41.2	32.4	28.5	27.5
80°	119.7	31.4	24.5	21.6	20.6
82.5°	77.5	22.6	18.6	14.7	13.7
85°	40.2	14.7	11.8	8.8	8.8
87.5°	15.7	8.8	5.9	3.9	2.9
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	23.85	25.36	24.21	25.68	25.99	12.49	14.00	12.85	14.31	14.63
	3H	25.77	27.12	26.15	27.45	27.81	14.62	15.97	15.00	16.30	16.66
	4H	26.25	27.52	26.65	27.87	28.25	15.30	16.57	15.70	16.92	17.30
	6H	26.69	27.86	27.10	28.22	28.62	15.77	16.93	16.18	17.30	17.69
	8H	26.83	27.94	27.25	28.33	28.73	15.90	17.01	16.33	17.40	17.80
	12H	26.90	27.97	27.33	28.35	28.78	15.99	17.05	16.42	17.43	17.86
4H	2H	23.69	24.96	24.09	25.31	25.69	13.24	14.50	13.64	14.85	15.23
	3H	25.72	26.77	26.13	27.17	27.57	15.58	16.62	15.99	17.02	17.43
	4H	26.21	27.15	26.64	27.56	28.00	16.37	17.31	16.81	17.73	18.17
	6H	26.72	27.53	27.18	27.98	28.44	16.95	17.76	17.41	18.20	18.66
	8H	26.91	27.67	27.37	28.11	28.58	17.12	17.88	17.58	18.32	18.79
	12H	27.03	27.71	27.52	28.19	28.66	17.24	17.91	17.72	18.39	18.86
8H	4H	26.13	26.89	26.60	27.34	27.81	16.96	17.72	17.43	18.17	18.63
	6H	26.65	27.27	27.14	27.76	28.24	17.62	18.24	18.11	18.73	19.21
	8H	26.84	27.41	27.36	27.92	28.41	17.84	18.40	18.35	18.91	19.40
	12H	27.00	27.50	27.51	28.00	28.56	18.01	18.51	18.52	19.00	19.57
12H	4H	26.10	26.78	26.59	27.26	27.73	17.04	17.72	17.53	18.20	18.67
	6H	26.60	27.16	27.12	27.68	28.16	17.73	18.29	18.24	18.80	19.29
	8H	26.82	27.32	27.34	27.82	28.38	18.01	18.51	18.52	19.00	19.56