

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: P892563

Luminaire Tested: 2MB-2SL-RFLW-UNV-L940

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892563
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-L940
Description: 2000 Lumen 2FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 90CRI, 4000K
Light Source: -
Ballast/Driver: -

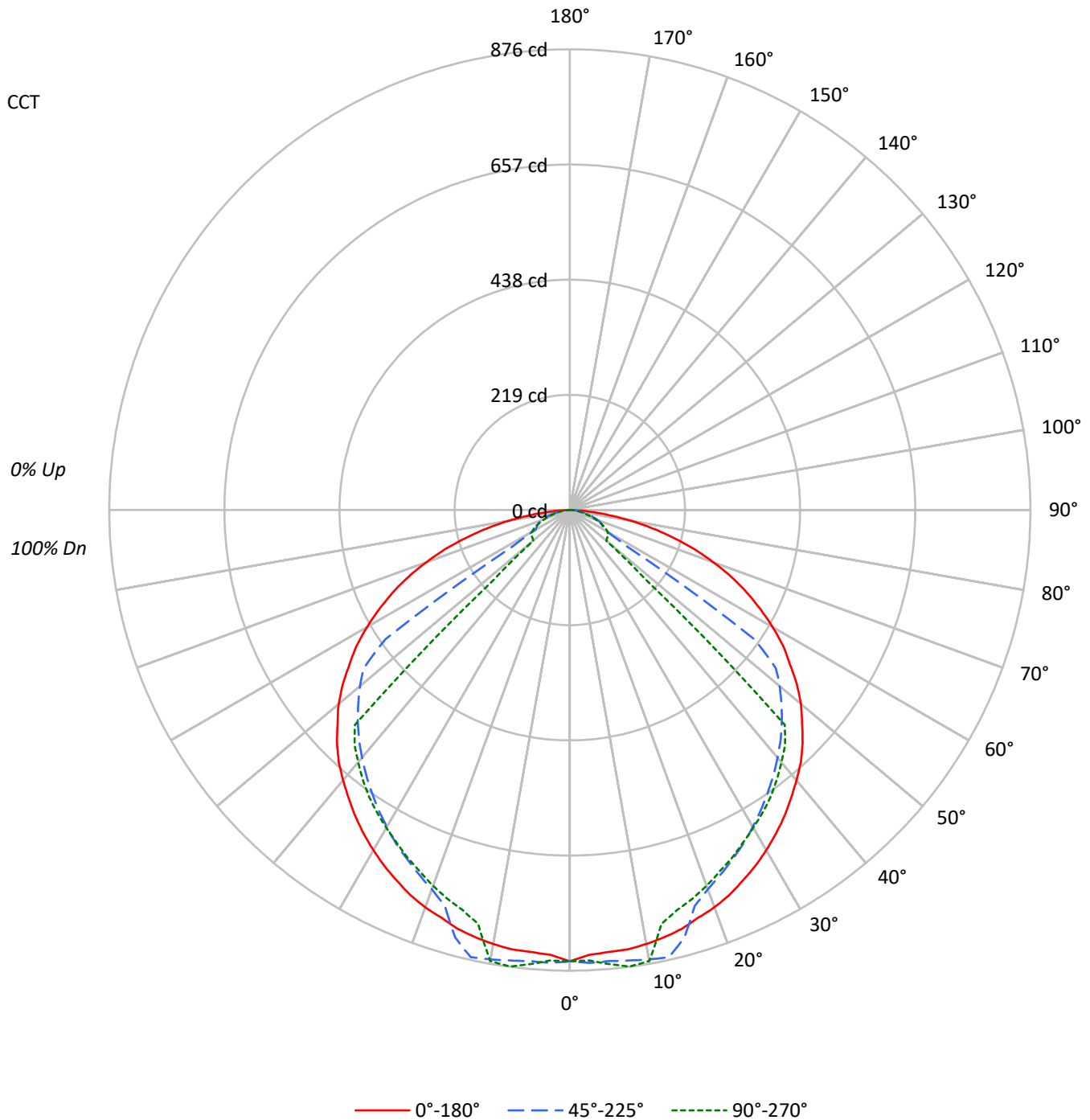
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2015.0 lumens
Efficiency: N/A
Efficacy: 135.2 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°	22403	22403	22403
5°	22109	22565	22717
10°	22211	23006	23083
15°	22280	22750	21288
20°	22338	21318	21129
25°	22409	21101	21018
30°	22520	20976	21033
35°	22667	20914	21220
40°	22858	20946	21342
45°	23121	21053	21337
50°	23314	21157	3688
55°	23269	19486	4001
60°	23262	3937	4339
65°	22981	4176	4300
70°	22206	4351	3985
75°	20669	4095	3510
80°	17726	3638	3052
85°	11862	3475	2606

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 23382 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.2	4.1
10°-20°	231.9	11.5
20°-30°	347.0	17.2
30°-40°	418.3	20.8
40°-50°	421.3	20.9
50°-60°	262.8	13.0
60°-70°	165.2	8.2
70°-80°	68.7	3.4
80°-90°	17.6	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°	661.1	32.8
0°-40°	1079.4	53.6
0°-60°	1763.4	87.5
0°-90°	2015.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2015.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	858	858	858	858	858	
5°	844	861	861	862	867	80
15°	824	849	842	788	788	233
25°	778	808	732	727	730	359
35°	711	666	656	660	666	445
45°	626	566	570	578	578	483
55°	511	450	428	84	88	458
65°	372	322	68	70	70	367
75°	205	49	41	36	35	216
85°	40	14	12	9	9	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	858.1	858.1	858.1	858.1	858.1
2.5°	846.5	862.0	862.0	858.1	857.2
5°	843.6	861.0	861.0	862.0	866.8
7.5°	842.7	859.1	863.9	869.7	875.5
10°	837.8	857.2	867.8	875.5	870.7
12.5°	832.0	853.3	870.7	821.4	805.9
15°	824.3	849.4	841.7	787.6	787.6
17.5°	812.7	843.6	789.5	774.1	775.0
20°	804.0	838.8	767.3	758.6	760.5
22.5°	792.4	829.1	749.9	742.2	744.1
25°	777.9	807.9	732.5	726.7	729.6
27.5°	763.4	764.4	715.1	711.2	713.2
30°	747.0	722.8	695.8	694.8	697.7
32.5°	729.6	691.9	676.5	678.4	682.2
35°	711.2	665.8	656.2	660.0	665.8
37.5°	690.9	641.7	635.9	642.6	646.5
40°	670.7	616.5	614.6	621.4	626.2
42.5°	650.4	592.4	593.3	600.1	605.9
45°	626.2	566.3	570.2	577.9	577.9
47.5°	599.1	538.3	546.0	529.6	196.2
50°	574.0	510.2	520.9	156.5	90.8
52.5°	544.1	480.3	493.8	86.0	88.9
55°	511.2	450.3	428.1	84.1	87.9
57.5°	481.2	419.4	127.6	83.1	86.0
60°	445.5	388.5	75.4	81.2	83.1
62.5°	408.8	355.6	71.5	77.3	77.3
65°	372.0	321.8	67.6	70.5	69.6
67.5°	332.4	287.0	63.8	61.8	60.9
70°	290.9	176.8	57.0	53.1	52.2
72.5°	249.3	60.9	49.3	44.5	43.5
75°	204.9	49.3	40.6	35.8	34.8
77.5°	161.4	40.6	31.9	28.0	27.1
80°	117.9	30.9	24.2	21.3	20.3
82.5°	76.3	22.2	18.4	14.5	13.5
85°	39.6	14.5	11.6	8.7	8.7
87.5°	15.5	8.7	5.8	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	23.79	25.31	24.16	25.62	25.94	12.43	13.95	12.80	14.26	14.57
	3H	25.71	27.07	26.09	27.40	27.76	14.56	15.92	14.94	16.24	16.61
	4H	26.20	27.47	26.60	27.81	28.19	15.25	16.52	15.65	16.87	17.24
	6H	26.64	27.80	27.05	28.17	28.56	15.71	16.88	16.13	17.25	17.64
	8H	26.77	27.89	27.20	28.28	28.68	15.85	16.96	16.27	17.35	17.75
	12H	26.85	27.91	27.28	28.30	28.72	15.93	17.00	16.36	17.38	17.81
4H	2H	23.64	24.91	24.04	25.26	25.63	13.18	14.45	13.58	14.80	15.18
	3H	25.67	26.71	26.08	27.11	27.51	15.53	16.57	15.94	16.97	17.37
	4H	26.16	27.09	26.59	27.51	27.95	16.32	17.26	16.75	17.67	18.11
	6H	26.67	27.48	27.13	27.92	28.39	16.89	17.71	17.35	18.15	18.61
	8H	26.86	27.61	27.32	28.06	28.53	17.06	17.82	17.53	18.27	18.74
	12H	26.98	27.66	27.46	28.14	28.61	17.18	17.86	17.67	18.34	18.81
8H	4H	26.08	26.84	26.54	27.28	27.75	16.91	17.67	17.37	18.11	18.58
	6H	26.59	27.22	27.09	27.71	28.19	17.56	18.19	18.06	18.68	19.16
	8H	26.79	27.35	27.31	27.86	28.35	17.79	18.35	18.30	18.86	19.35
	12H	26.95	27.45	27.46	27.94	28.51	17.96	18.46	18.47	18.95	19.52
12H	4H	26.05	26.73	26.53	27.21	27.68	16.99	17.67	17.47	18.15	18.62
	6H	26.55	27.11	27.06	27.62	28.11	17.67	18.24	18.19	18.75	19.24
	8H	26.77	27.27	27.28	27.76	28.33	17.96	18.46	18.47	18.95	19.51