

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: P892561

Luminaire Tested: 2MB-2SL-RFLW-UNV-L930

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892561
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-L930
Description: 2000 Lumen 2FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 90CRI, 3000K
Light Source: -
Ballast/Driver: -

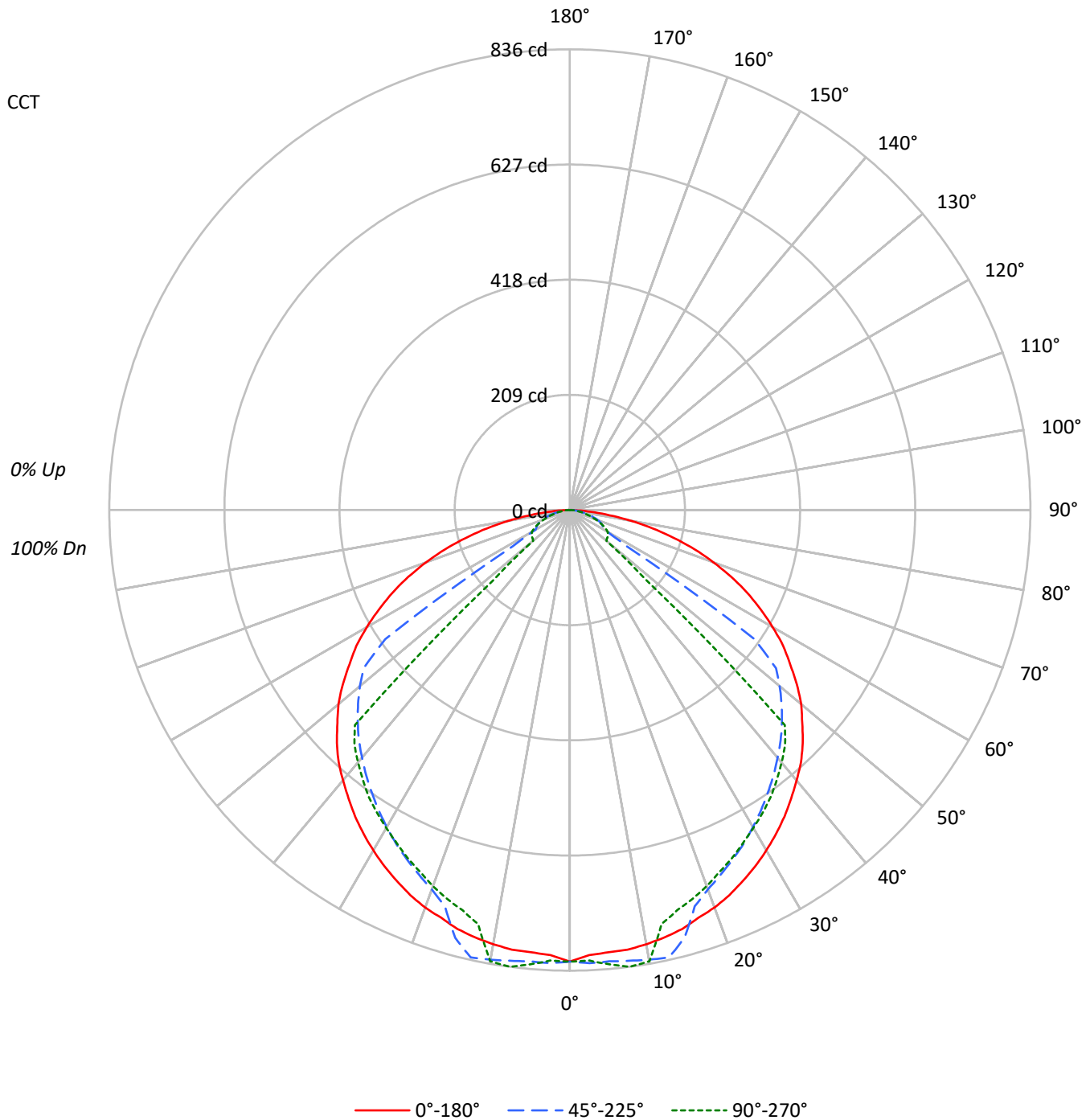
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1924.0 lumens
Efficiency: N/A
Efficacy: 129.1 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°	21393	21393	21393
5°	21110	21545	21692
10°	21209	21967	22041
15°	21274	21723	20326
20°	21329	20354	20176
25°	21398	20148	20070
30°	21504	20030	20084
35°	21644	19968	20264
40°	21826	19999	20377
45°	22076	20100	20374
50°	22262	20199	3521
55°	22217	18608	3823
60°	22213	3760	4146
65°	21943	3991	4102
70°	21198	4153	3801
75°	19731	3914	3349
80°	16929	3473	2917
85°	11323	3325	2486

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 22328 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.5	4.1
10°-20°	221.4	11.5
20°-30°	331.3	17.2
30°-40°	399.4	20.8
40°-50°	402.2	20.9
50°-60°	250.9	13.0
60°-70°	157.8	8.2
70°-80°	65.6	3.4
80°-90°	16.8	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°	631.2	32.8
0°-40°	1030.6	53.6
0°-60°	1683.8	87.5
0°-90°	1924.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1924.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	819	819	819	819	819	
5°	806	822	822	823	828	77
15°	787	811	804	752	752	222
25°	743	771	699	694	697	343
35°	679	636	626	630	636	425
45°	598	541	544	552	552	461
55°	488	430	409	80	84	437
65°	355	307	65	67	66	350
75°	196	47	39	34	33	206
85°	38	14	11	8	8	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	819.4	819.4	819.4	819.4	819.4
2.5°	808.3	823.1	823.1	819.4	818.4
5°	805.5	822.1	822.1	823.1	827.7
7.5°	804.6	820.3	824.9	830.4	836.0
10°	800.0	818.4	828.6	836.0	831.4
12.5°	794.5	814.8	831.4	784.3	769.5
15°	787.1	811.1	803.7	752.0	752.0
17.5°	776.0	805.5	753.9	739.1	740.0
20°	767.7	800.9	732.6	724.3	726.2
22.5°	756.6	791.7	716.0	708.6	710.5
25°	742.8	771.4	699.4	693.9	696.7
27.5°	728.9	729.9	682.8	679.1	681.0
30°	713.3	690.2	664.4	663.4	666.2
32.5°	696.7	660.7	645.9	647.7	651.4
35°	679.1	635.8	626.5	630.2	635.8
37.5°	659.7	612.7	607.1	613.6	617.3
40°	640.4	588.7	586.8	593.3	597.9
42.5°	621.0	565.6	566.5	573.0	578.5
45°	597.9	540.7	544.4	551.8	551.8
47.5°	572.1	514.0	521.3	505.6	187.3
50°	548.1	487.2	497.3	149.5	86.7
52.5°	519.5	458.6	471.5	82.1	84.9
55°	488.1	430.0	408.8	80.3	84.0
57.5°	459.5	400.5	121.8	79.4	82.1
60°	425.4	370.9	72.0	77.5	79.4
62.5°	390.3	339.6	68.3	73.8	73.8
65°	355.2	307.3	64.6	67.4	66.4
67.5°	317.4	274.0	60.9	59.1	58.1
70°	277.7	168.9	54.4	50.7	49.8
72.5°	238.1	58.1	47.1	42.4	41.5
75°	195.6	47.1	38.8	34.1	33.2
77.5°	154.1	38.8	30.4	26.8	25.8
80°	112.6	29.5	23.1	20.3	19.4
82.5°	72.9	21.2	17.5	13.8	12.9
85°	37.8	13.8	11.1	8.3	8.3
87.5°	14.8	8.3	5.5	3.7	2.8
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	23.63	25.15	24.00	25.46	25.78	12.28	13.79	12.64	14.10	14.42
	3H	25.55	26.91	25.93	27.23	27.60	14.40	15.76	14.78	16.08	16.45
	4H	26.04	27.31	26.44	27.65	28.03	15.09	16.36	15.49	16.70	17.08
	6H	26.48	27.64	26.89	28.01	28.40	15.55	16.72	15.96	17.09	17.48
	8H	26.61	27.73	27.04	28.12	28.52	15.69	16.80	16.11	17.19	17.59
	12H	26.69	27.75	27.12	28.14	28.56	15.77	16.84	16.20	17.22	17.65
4H	2H	23.48	24.75	23.88	25.10	25.47	13.03	14.29	13.43	14.64	15.02
	3H	25.51	26.55	25.92	26.95	27.35	15.37	16.41	15.78	16.81	17.21
	4H	26.00	26.93	26.43	27.35	27.79	16.16	17.10	16.59	17.51	17.95
	6H	26.51	27.32	26.97	27.76	28.23	16.73	17.54	17.19	17.99	18.45
	8H	26.70	27.45	27.16	27.90	28.37	16.90	17.66	17.37	18.11	18.57
	12H	26.82	27.50	27.30	27.98	28.45	17.02	17.70	17.51	18.18	18.65
8H	4H	25.92	26.68	26.38	27.12	27.59	16.75	17.51	17.21	17.95	18.42
	6H	26.43	27.06	26.93	27.55	28.03	17.40	18.03	17.90	18.52	19.00
	8H	26.63	27.19	27.15	27.70	28.19	17.62	18.19	18.14	18.70	19.19
	12H	26.79	27.29	27.30	27.78	28.35	17.80	18.30	18.31	18.79	19.35
12H	4H	25.89	26.57	26.37	27.05	27.52	16.83	17.51	17.31	17.98	18.46
	6H	26.39	26.95	26.90	27.46	27.95	17.51	18.07	18.03	18.58	19.07
	8H	26.61	27.11	27.12	27.60	28.17	17.79	18.29	18.30	18.78	19.35