

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: P892562

Luminaire Tested: 2MB-2SL-RFLW-UNV-L935

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892562
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-L935
Description: 2000 Lumen 2FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 90CRI, 3500K
Light Source: -
Ballast/Driver: -

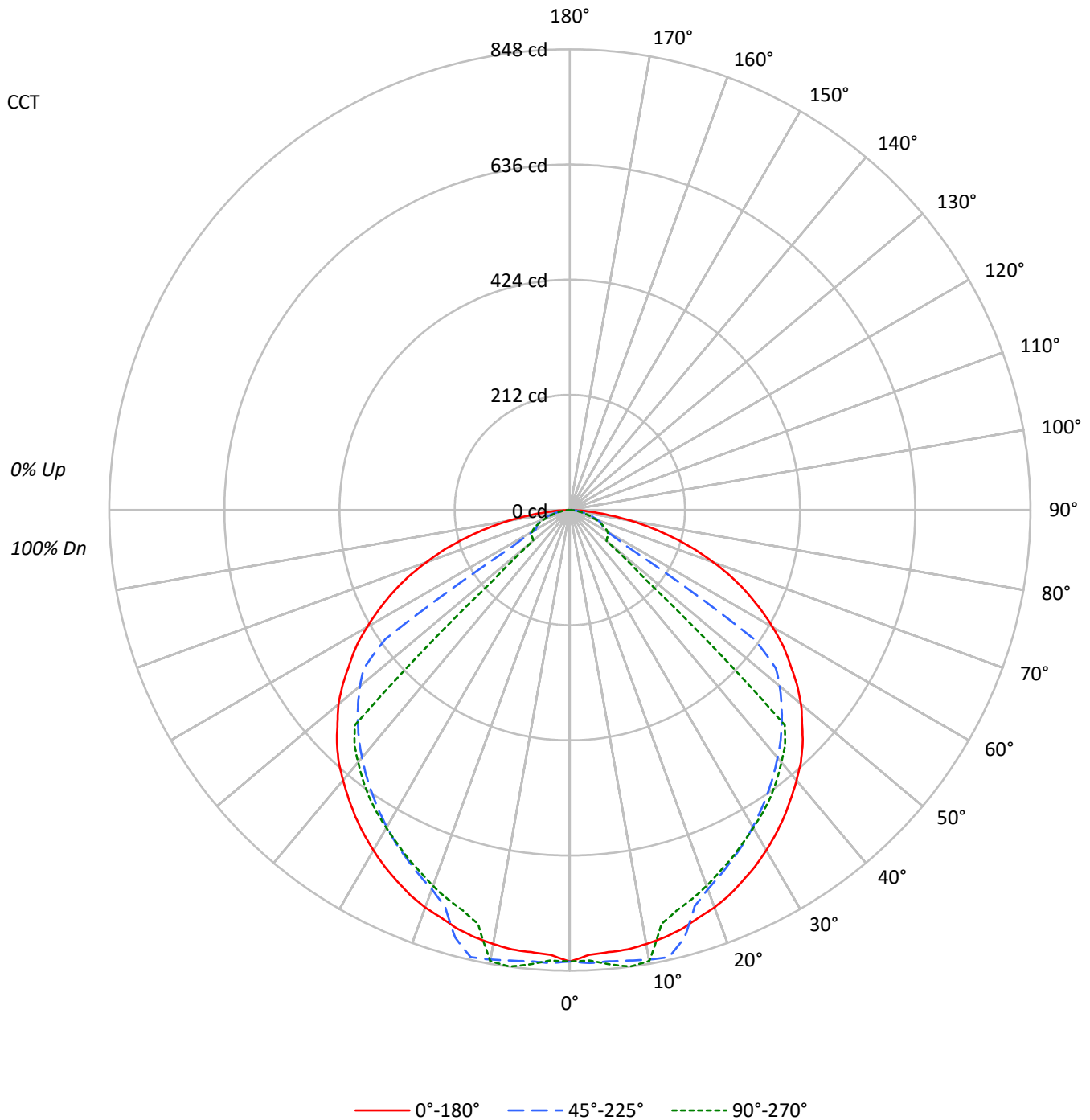
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1951.0 lumens
Efficiency: N/A
Efficacy: 130.9 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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	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	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	77	77	75
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	67	67	67	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	58	58	56
5	80	68	59	53	77	67	59	53	64	58	52	63	57	52	61	55	51	51	51	49
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46	46	46	44
7	69	56	48	42	67	55	47	42	53	46	41	52	46	41	51	45	41	41	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	42	37	47	41	37	37	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	37	33	33	33	32
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	30	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21693	21693	21693
5°	21406	21849	21996
10°	21505	22274	22349
15°	21572	22029	20612
20°	21629	20640	20460
25°	21697	20430	20349
30°	21805	20310	20364
35°	21947	20248	20548
40°	22133	20282	20664
45°	22386	20381	20658
50°	22575	20483	3574
55°	22531	18867	3874
60°	22521	3812	4203
65°	22252	4046	4164
70°	21496	4214	3855
75°	20013	3964	3399
80°	17170	3518	2947
85°	11503	3355	2516

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 22643 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.6	4.1
10°-20°	224.5	11.5
20°-30°	335.9	17.2
30°-40°	405.0	20.8
40°-50°	407.9	20.9
50°-60°	254.4	13.0
60°-70°	160.0	8.2
70°-80°	66.5	3.4
80°-90°	17.1	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°	640.1	32.8
0°-40°	1045.1	53.6
0°-60°	1707.4	87.5
0°-90°	1951.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1951.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	831	831	831	831	831	
5°	817	834	834	835	839	78
15°	798	822	815	763	763	225
25°	753	782	709	704	706	348
35°	689	645	635	639	645	431
45°	606	548	552	560	560	467
55°	495	436	414	81	85	443
65°	360	312	66	68	67	355
75°	198	48	39	35	34	209
85°	38	14	11	8	8	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	830.9	830.9	830.9	830.9	830.9
2.5°	819.6	834.6	834.6	830.9	829.9
5°	816.8	833.7	833.7	834.6	839.3
7.5°	815.9	831.8	836.5	842.1	847.7
10°	811.2	829.9	840.2	847.7	843.0
12.5°	805.6	826.2	843.0	795.3	780.3
15°	798.1	822.4	815.0	762.6	762.6
17.5°	786.9	816.8	764.4	749.5	750.4
20°	778.5	812.2	742.9	734.5	736.4
22.5°	767.2	802.8	726.1	718.6	720.5
25°	753.2	782.2	709.2	703.6	706.4
27.5°	739.2	740.1	692.4	688.6	690.5
30°	723.3	699.9	673.7	672.7	675.5
32.5°	706.4	669.9	655.0	656.8	660.6
35°	688.6	644.7	635.3	639.1	644.7
37.5°	669.0	621.3	615.7	622.2	626.0
40°	649.4	597.0	595.1	601.6	606.3
42.5°	629.7	573.6	574.5	581.0	586.7
45°	606.3	548.3	552.0	559.5	559.5
47.5°	580.1	521.2	528.7	512.7	189.9
50°	555.8	494.0	504.3	151.6	88.0
52.5°	526.8	465.0	478.1	83.3	86.1
55°	495.0	436.0	414.5	81.4	85.1
57.5°	466.0	406.1	123.5	80.5	83.3
60°	431.3	376.1	73.0	78.6	80.5
62.5°	395.8	344.3	69.2	74.9	74.9
65°	360.2	311.6	65.5	68.3	67.4
67.5°	321.9	277.9	61.8	59.9	58.9
70°	281.6	171.2	55.2	51.5	50.5
72.5°	241.4	58.9	47.7	43.0	42.1
75°	198.4	47.7	39.3	34.6	33.7
77.5°	156.3	39.3	30.9	27.1	26.2
80°	114.2	29.9	23.4	20.6	19.6
82.5°	73.9	21.5	17.8	14.0	13.1
85°	38.4	14.0	11.2	8.4	8.4
87.5°	15.0	8.4	5.6	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	23.68	25.20	24.05	25.51	25.82	12.32	13.84	12.69	14.15	14.47
	3H	25.60	26.96	25.98	27.28	27.65	14.45	15.81	14.83	16.13	16.50
	4H	26.09	27.35	26.49	27.70	28.08	15.14	16.41	15.54	16.75	17.13
	6H	26.52	27.69	26.94	28.06	28.45	15.60	16.77	16.01	17.13	17.53
	8H	26.66	27.77	27.09	28.16	28.57	15.73	16.85	16.16	17.23	17.64
	12H	26.74	27.80	27.17	28.18	28.61	15.82	16.88	16.25	17.27	17.70
4H	2H	23.53	24.79	23.93	25.14	25.52	13.07	14.34	13.47	14.69	15.07
	3H	25.56	26.60	25.97	27.00	27.40	15.42	16.46	15.83	16.86	17.26
	4H	26.05	26.98	26.48	27.40	27.84	16.21	17.15	16.64	17.56	18.00
	6H	26.56	27.37	27.02	27.81	28.27	16.78	17.59	17.24	18.04	18.50
	8H	26.74	27.50	27.21	27.95	28.41	16.95	17.71	17.41	18.15	18.62
	12H	26.87	27.55	27.35	28.02	28.50	17.07	17.75	17.55	18.23	18.70
8H	4H	25.97	26.73	26.43	27.17	27.64	16.80	17.56	17.26	18.00	18.47
	6H	26.48	27.11	26.98	27.60	28.08	17.45	18.08	17.95	18.57	19.05
	8H	26.68	27.24	27.19	27.75	28.24	17.67	18.23	18.19	18.75	19.23
	12H	26.84	27.34	27.35	27.83	28.40	17.84	18.34	18.36	18.84	19.40
12H	4H	25.94	26.62	26.42	27.09	27.57	16.88	17.56	17.36	18.03	18.51
	6H	26.44	27.00	26.95	27.51	28.00	17.56	18.12	18.07	18.63	19.12
	8H	26.66	27.16	27.17	27.65	28.22	17.84	18.34	18.35	18.83	19.40