

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: P892557

Luminaire Tested: 2MB-2SL-RFLW-UNV-L830

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892557
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-L830
Description: 2000 Lumen 2FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 80CRI, 3000K
Light Source: -
Ballast/Driver: -

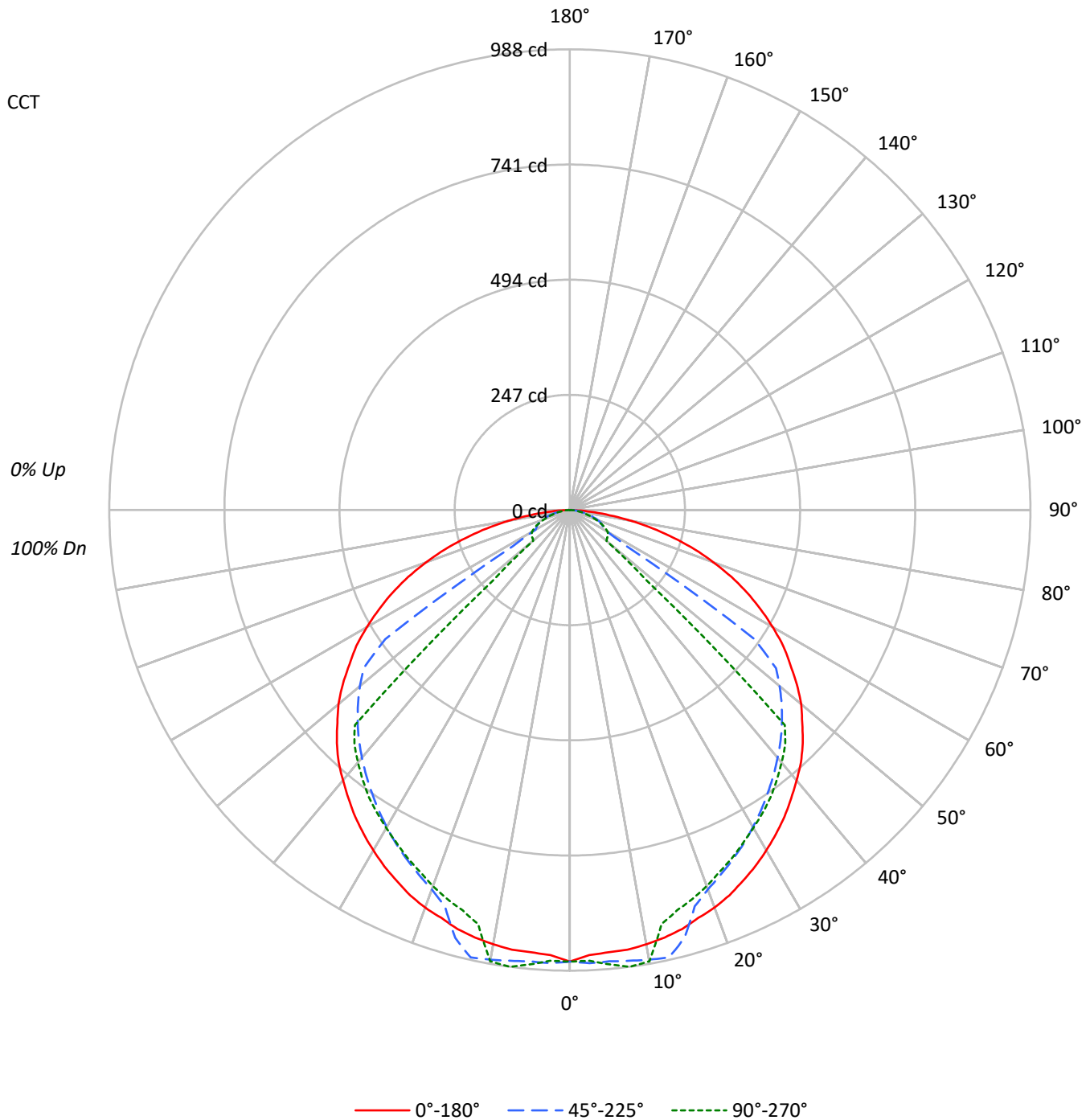
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2274.0 lumens
Efficiency: N/A
Efficacy: 152.6 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 (Ain): 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°	25283	25283	25283
5°	24952	25466	25636
10°	25066	25962	26049
15°	25145	25675	24023
20°	25211	24058	23847
25°	25290	23815	23720
30°	25414	23671	23738
35°	25584	23601	23949
40°	25796	23639	24085
45°	26093	23756	24081
50°	26312	23875	4163
55°	26259	21990	4515
60°	26254	4444	4898
65°	25940	4714	4849
70°	25061	4908	4496
75°	23322	4620	3964
80°	19997	4105	3443
85°	13390	3924	2936

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 26390 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.8	4.1
10°-20°	261.7	11.5
20°-30°	391.6	17.2
30°-40°	472.1	20.8
40°-50°	475.4	20.9
50°-60°	296.6	13.0
60°-70°	186.5	8.2
70°-80°	77.5	3.4
80°-90°	19.9	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°	746.0	32.8
0°-40°	1218.1	53.6
0°-60°	1990.1	87.5
0°-90°	2274.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2274.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	968	968	968	968	968	
5°	952	972	972	973	978	91
15°	930	959	950	889	889	263
25°	878	912	827	820	823	405
35°	803	751	740	745	751	502
45°	707	639	643	652	652	545
55°	577	508	483	95	99	517
65°	420	363	76	80	78	414
75°	231	56	46	40	39	244
85°	45	16	13	10	10	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	968.4	968.4	968.4	968.4	968.4
2.5°	955.3	972.8	972.8	968.4	967.3
5°	952.1	971.7	971.7	972.8	978.2
7.5°	951.0	969.5	975.0	981.5	988.1
10°	945.5	967.3	979.3	988.1	982.6
12.5°	939.0	963.0	982.6	927.0	909.5
15°	930.3	958.6	949.9	888.8	888.8
17.5°	917.2	952.1	891.0	873.5	874.6
20°	907.4	946.6	865.9	856.1	858.3
22.5°	894.3	935.7	846.3	837.6	839.7
25°	877.9	911.7	826.7	820.1	823.4
27.5°	861.5	862.6	807.0	802.7	804.8
30°	843.0	815.7	785.2	784.1	787.4
32.5°	823.4	780.8	763.4	765.6	769.9
35°	802.7	751.4	740.5	744.9	751.4
37.5°	779.8	724.1	717.6	725.2	729.6
40°	756.9	695.8	693.6	701.2	706.7
42.5°	734.0	668.5	669.6	677.2	683.8
45°	706.7	639.1	643.4	652.2	652.2
47.5°	676.2	607.4	616.2	597.6	221.4
50°	647.8	575.8	587.8	176.7	102.5
52.5°	614.0	542.0	557.3	97.1	100.3
55°	576.9	508.2	483.1	94.9	99.2
57.5°	543.1	473.3	144.0	93.8	97.1
60°	502.8	438.4	85.1	91.6	93.8
62.5°	461.3	401.3	80.7	87.2	87.2
65°	419.9	363.2	76.3	79.6	78.5
67.5°	375.2	323.9	72.0	69.8	68.7
70°	328.3	199.6	64.3	60.0	58.9
72.5°	281.4	68.7	55.6	50.2	49.1
75°	231.2	55.6	45.8	40.4	39.3
77.5°	182.1	45.8	36.0	31.6	30.5
80°	133.0	34.9	27.3	24.0	22.9
82.5°	86.2	25.1	20.7	16.4	15.3
85°	44.7	16.4	13.1	9.8	9.8
87.5°	17.4	9.8	6.5	4.4	3.3
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	24.22	25.73	24.58	26.04	26.36	12.85	14.37	13.22	14.68	15.00
	3H	26.14	27.49	26.51	27.82	28.18	14.99	16.34	15.36	16.67	17.03
	4H	26.62	27.89	27.02	28.24	28.61	15.67	16.94	16.07	17.29	17.67
	6H	27.06	28.22	27.47	28.59	28.98	16.13	17.30	16.55	17.67	18.06
	8H	27.20	28.31	27.62	28.70	29.10	16.27	17.38	16.70	17.77	18.17
	12H	27.27	28.33	27.70	28.72	29.15	16.36	17.42	16.79	17.80	18.23
4H	2H	24.06	25.33	24.46	25.68	26.05	13.60	14.87	14.00	15.22	15.60
	3H	26.09	27.13	26.50	27.53	27.93	15.95	16.99	16.36	17.39	17.79
	4H	26.58	27.51	27.01	27.93	28.37	16.74	17.68	17.18	18.10	18.53
	6H	27.09	27.90	27.55	28.35	28.81	17.31	18.13	17.77	18.57	19.03
	8H	27.28	28.03	27.74	28.48	28.95	17.49	18.24	17.95	18.69	19.16
	12H	27.40	28.08	27.88	28.56	29.03	17.61	18.28	18.09	18.76	19.23
8H	4H	26.50	27.26	26.97	27.70	28.17	17.33	18.09	17.79	18.53	19.00
	6H	27.01	27.64	27.51	28.13	28.61	17.98	18.61	18.48	19.10	19.58
	8H	27.21	27.77	27.73	28.28	28.77	18.21	18.77	18.72	19.28	19.77
	12H	27.37	27.87	27.88	28.36	28.93	18.38	18.88	18.89	19.37	19.94
12H	4H	26.47	27.15	26.95	27.63	28.10	17.41	18.09	17.89	18.57	19.04
	6H	26.97	27.53	27.48	28.04	28.53	18.09	18.66	18.61	19.17	19.66
	8H	27.19	27.69	27.70	28.18	28.75	18.38	18.88	18.89	19.37	19.93