

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: P893298

Luminaire Tested: 4MB-2SL-LVR-UNV-L835

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893298
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-8)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4MB-2SL-LVR-UNV-L835
Description: 2000 Lumen 4FT MICROBAY LINEAR BAY with LOUVER, 80CRI, 3500K CCT
Light Source: -
Ballast/Driver: -

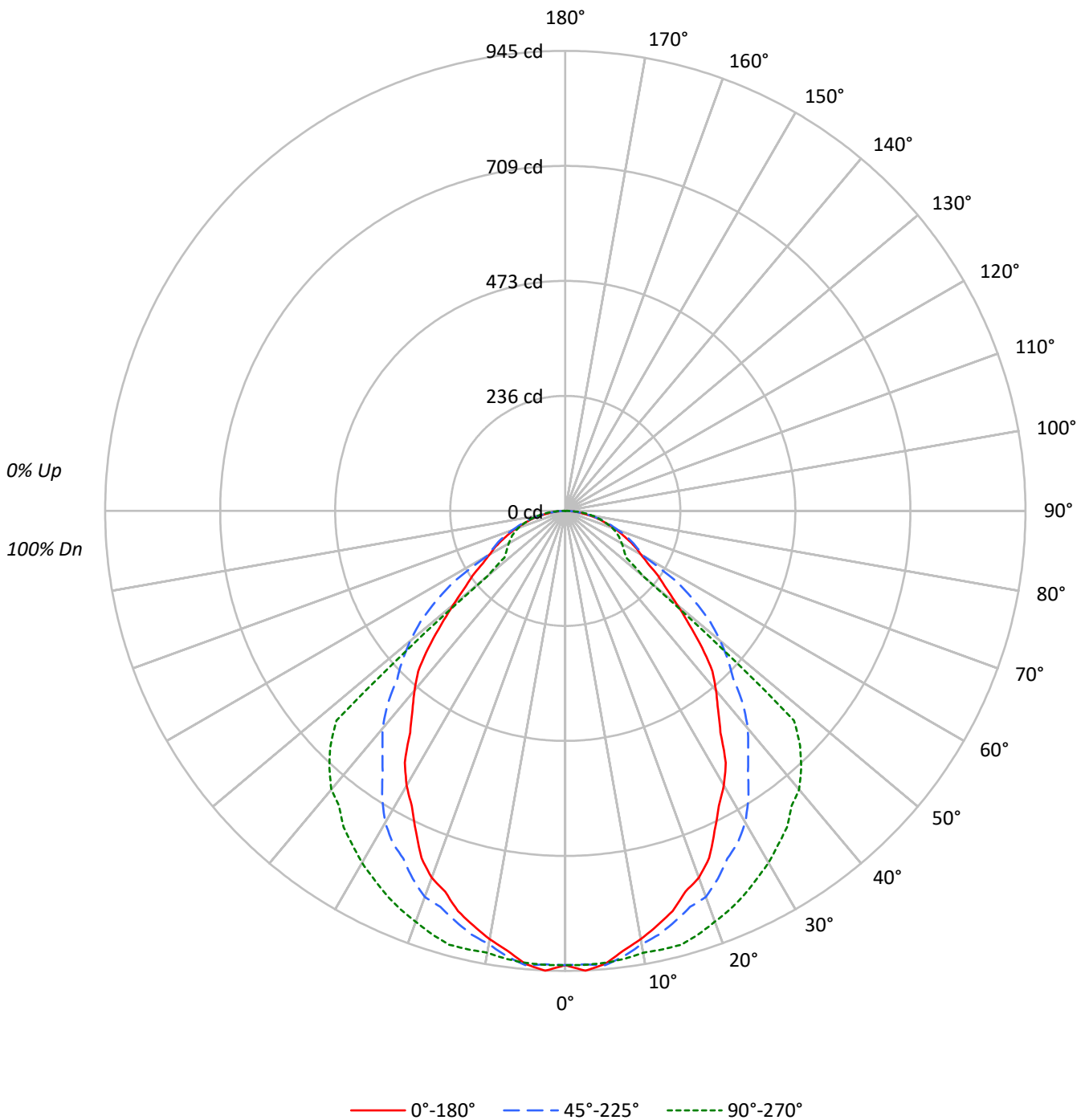
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1991.0 lumens
Efficiency: N/A
Efficacy: 144.3 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.32 / 1.27
Luminous Opening: Rectangular (W 0.38' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 13.8
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	100	97	100	97	94	96	93	91	92	90	89	89	89	89	87
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	77	77	77	75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	67	67	67	65
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	59	59	59	57
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	57	52	52	52	52	50
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	47	47	47	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	42	42	42	40
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	38	38	38	36
9	61	48	40	35	59	48	40	35	47	40	35	45	39	35	44	39	35	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6638	6638	6638
5°	6674	6691	6657
10°	6455	6530	6658
15°	6268	6427	6795
20°	6072	6390	6801
25°	5697	6184	6831
30°	5352	6072	6858
35°	4826	5679	6891
40°	4470	5417	6940
45°	3999	4909	6861
50°	3317	4599	2305
55°	2890	4036	1845
60°	2556	2631	1913
65°	2431	2559	2030
70°	2280	2419	2141
75°	2122	2279	2202
80°	1934	2147	2303
85°	1714	1829	2490

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6861 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.5	4.4
10°-20°	249.0	12.5
20°-30°	366.2	18.4
30°-40°	418.8	21.0
40°-50°	396.6	19.9
50°-60°	218.5	11.0
60°-70°	140.3	7.0
70°-80°	86.6	4.3
80°-90°	26.6	1.3
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°	703.6	35.3
0°-40°	1122.4	56.4
0°-60°	1737.5	87.3
0°-90°	1991.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1991.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	933	933	933	933	933	
5°	934	942	937	937	932	88
15°	851	862	872	918	922	239
25°	726	758	788	839	870	334
35°	556	603	654	749	793	351
45°	397	435	488	626	682	304
55°	233	244	325	168	149	208
65°	144	149	152	135	121	143
75°	77	79	83	87	80	82
85°	21	21	22	26	30	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	933.0	933.0	933.0	933.0	933.0
2.5°	945.4	947.8	932.5	932.0	933.5
5°	934.4	942.0	936.8	936.8	932.0
7.5°	911.1	923.9	922.5	933.5	928.2
10°	893.4	903.9	903.9	932.5	921.5
12.5°	872.5	884.4	891.1	921.1	922.5
15°	851.0	861.5	872.5	918.2	922.5
17.5°	820.1	839.1	852.9	897.7	911.5
20°	801.9	813.4	843.9	880.1	898.2
22.5°	771.9	788.6	818.1	858.7	885.3
25°	725.7	758.1	787.7	839.1	870.1
27.5°	682.8	707.1	768.1	822.4	852.0
30°	651.4	670.4	739.1	798.1	834.8
32.5°	613.3	644.2	700.0	774.3	813.4
35°	555.6	603.2	653.8	748.6	793.4
37.5°	515.1	548.0	616.6	721.9	763.4
40°	481.3	511.3	583.2	688.5	747.2
42.5°	447.4	471.7	541.3	663.8	717.1
45°	397.4	435.0	487.9	626.1	681.9
47.5°	345.0	385.0	453.2	594.2	637.1
50°	299.7	331.6	415.5	530.8	208.2
52.5°	260.2	289.7	375.5	192.0	157.2
55°	233.0	244.4	325.4	167.7	148.7
57.5°	200.6	219.2	273.0	159.6	141.0
60°	179.6	187.7	184.9	151.5	134.4
62.5°	163.0	168.7	167.7	143.4	126.7
65°	144.4	149.1	152.0	135.3	120.6
67.5°	125.8	130.1	134.4	125.3	112.0
70°	109.6	112.5	116.3	113.4	102.9
72.5°	92.9	96.3	98.6	101.0	91.0
75°	77.2	78.6	82.9	87.2	80.1
77.5°	62.9	64.3	67.2	72.0	68.1
80°	47.2	48.6	52.4	56.2	56.2
82.5°	33.4	34.3	36.7	41.9	44.3
85°	21.0	21.0	22.4	25.7	30.5
87.5°	8.1	8.1	9.5	11.4	15.2
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	14.53	16.01	14.89	16.32	16.64	12.33	13.81	12.69	14.12	14.44
	3H	16.05	17.38	16.43	17.71	18.07	14.66	15.99	15.04	16.31	16.68
	4H	16.65	17.89	17.05	18.24	18.62	15.61	16.85	16.01	17.20	17.58
	6H	17.10	18.25	17.52	18.62	19.01	16.39	17.54	16.81	17.91	18.30
	8H	17.25	18.34	17.67	18.73	19.13	16.70	17.80	17.13	18.19	18.59
	12H	17.34	18.39	17.77	18.77	19.20	16.95	18.00	17.38	18.38	18.81
4H	2H	15.08	16.32	15.48	16.67	17.05	13.43	14.68	13.83	15.02	15.40
	3H	16.85	17.88	17.26	18.28	18.68	15.88	16.91	16.29	17.31	17.71
	4H	17.57	18.49	18.00	18.91	19.35	16.94	17.87	17.38	18.29	18.73
	6H	18.15	18.96	18.61	19.40	19.86	17.83	18.64	18.29	19.08	19.54
	8H	18.34	19.10	18.81	19.54	20.01	18.18	18.94	18.65	19.38	19.85
	12H	18.48	19.15	18.96	19.63	20.11	18.47	19.14	18.95	19.62	20.10
8H	4H	17.88	18.63	18.34	19.07	19.54	17.33	18.08	17.80	18.53	19.00
	6H	18.59	19.21	19.09	19.70	20.18	18.37	18.99	18.86	19.48	19.96
	8H	18.85	19.41	19.36	19.92	20.41	18.81	19.37	19.33	19.88	20.37
	12H	19.06	19.56	19.57	20.05	20.62	19.20	19.69	19.71	20.19	20.75
12H	4H	17.91	18.59	18.40	19.06	19.54	17.37	18.04	17.85	18.52	18.99
	6H	18.65	19.21	19.17	19.73	20.21	18.43	18.99	18.95	19.50	19.99
	8H	18.97	19.47	19.48	19.96	20.53	18.94	19.44	19.45	19.93	20.50