

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: P893032

Luminaire Tested: 2MB-SC3-LVR-UNV-CC83-LOW-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893032
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-SC3-LVR-UNV-CC83-LOW-3500K
Description: Selectable 2FT MICROBAY LINEAR BAY with LOUVER, 80CRI, 3500K CCT, LOW lumen setting
Light Source: -
Ballast/Driver: -

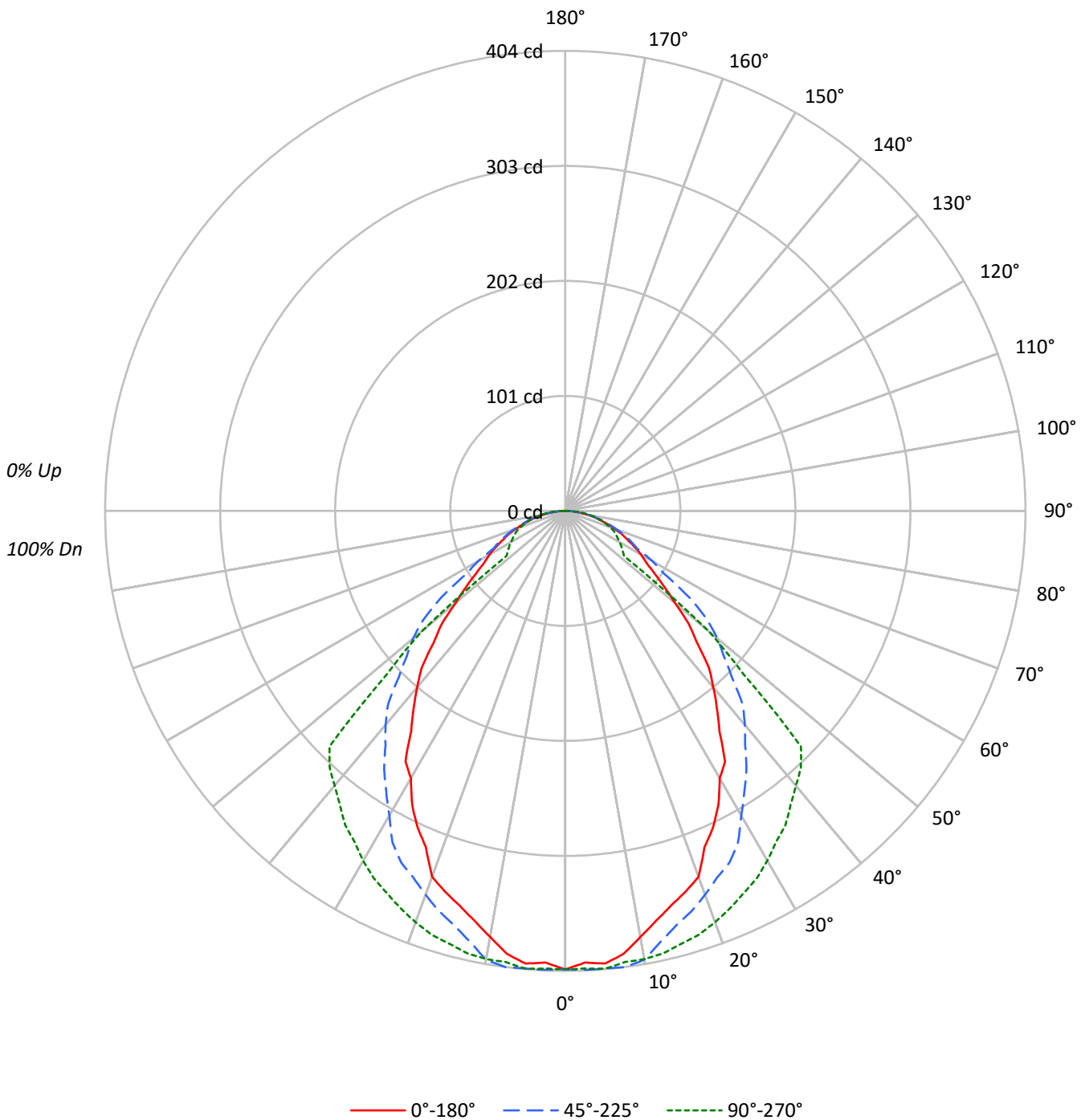
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 840.0 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.3 / 1.26
Luminous Opening: Rectangular (W 0.38' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 6.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.9915
Total Harmonic Distortion (THDi): 6.67573310469889
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	100	100	100	100
1	110	106	102	99	108	104	100	97	100	97	94	96	94	91	92	90	89	87	87	87	87
2	102	94	88	83	99	93	87	82	89	84	80	86	82	79	83	80	77	75	75	75	75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65	65	65	65
4	87	76	68	62	84	75	67	62	72	66	61	70	64	60	68	63	59	57	57	57	57
5	80	69	60	54	78	68	60	54	66	59	54	64	58	53	62	57	53	51	51	51	51
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	45	45	45	45
7	70	57	49	43	68	56	49	43	55	48	43	53	47	43	52	47	42	40	40	40	40
8	65	52	45	39	64	52	44	39	50	44	39	49	43	39	48	43	38	37	37	37	37
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	33	33	33	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30	30	30	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5759	5759	5759
5°	5730	5793	5793
10°	5518	5812	5806
15°	5312	5579	5828
20°	5205	5461	5850
25°	4843	5379	5847
30°	4477	5104	5859
35°	4120	4841	5882
40°	3776	4583	5881
45°	3300	4188	5920
50°	2791	3881	3663
55°	2372	3337	1531
60°	2197	2532	1579
65°	2041	2153	1659
70°	1928	2033	1744
75°	1780	1918	1796
80°	1623	1779	1895
85°	1444	1625	2035

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5920 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.2	4.5
10°-20°	106.9	12.7
20°-30°	155.4	18.5
30°-40°	175.9	20.9
40°-50°	164.3	19.6
50°-60°	93.4	11.1
60°-70°	58.7	7.0
70°-80°	36.0	4.3
80°-90°	11.3	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°	300.4	35.8
0°-40°	476.3	56.7
0°-60°	734.1	87.4
0°-90°	840.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	840.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	403	403	403	403	403	
5°	399	403	403	402	403	37
15°	359	365	377	397	394	101
25°	307	313	341	356	370	141
35°	236	252	277	313	337	149
45°	163	180	207	263	293	127
55°	95	104	134	70	61	87
65°	60	62	64	55	49	60
75°	32	33	35	36	32	34
85°	9	9	10	11	12	10
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	402.6	402.6	402.6	402.6	402.6
2.5°	397.1	401.5	403.4	403.0	402.3
5°	399.0	403.0	403.4	401.9	403.4
7.5°	392.4	401.9	404.1	400.4	399.7
10°	379.9	385.4	400.1	401.5	399.7
12.5°	368.6	375.2	387.3	401.5	397.9
15°	358.7	365.0	376.7	397.1	393.5
17.5°	350.7	352.9	368.6	392.4	390.2
20°	341.9	346.3	358.7	380.7	384.3
22.5°	319.6	331.7	348.5	370.4	377.8
25°	306.8	312.7	340.8	356.2	370.4
27.5°	291.1	301.7	328.4	345.2	363.9
30°	271.0	283.0	309.0	333.9	354.7
32.5°	261.1	265.5	292.6	324.7	344.5
35°	235.9	251.6	277.2	313.4	336.8
37.5°	218.7	228.2	259.3	302.4	325.1
40°	202.2	213.2	245.4	290.4	314.9
42.5°	186.5	196.4	230.4	278.3	306.1
45°	163.1	179.9	207.0	262.9	292.6
47.5°	147.0	157.6	188.7	244.3	212.1
50°	125.4	138.2	174.4	167.5	164.6
52.5°	109.7	116.7	157.2	141.5	65.1
55°	95.1	103.9	133.8	70.2	61.4
57.5°	84.1	90.0	102.8	65.1	58.5
60°	76.8	78.3	88.5	62.2	55.2
62.5°	68.7	70.2	70.6	58.9	51.9
65°	60.3	62.5	63.6	55.2	49.0
67.5°	54.1	54.5	56.0	51.2	46.1
70°	46.1	46.8	48.6	46.8	41.7
72.5°	39.1	40.2	41.3	41.7	37.3
75°	32.2	33.3	34.7	35.5	32.5
77.5°	26.3	26.7	28.2	30.0	27.8
80°	19.7	20.8	21.6	23.4	23.0
82.5°	14.3	14.6	15.7	17.2	17.9
85°	8.8	9.1	9.9	11.0	12.4
87.5°	3.7	4.0	4.4	5.1	5.9
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	13.80	15.28	14.17	15.60	15.91	11.55	13.03	11.91	13.34	13.65
	3H	15.39	16.71	15.77	17.04	17.40	13.88	15.21	14.26	15.53	15.90
	4H	15.99	17.23	16.39	17.58	17.96	14.83	16.07	15.23	16.41	16.79
	6H	16.45	17.60	16.86	17.96	18.36	15.62	16.76	16.03	17.13	17.52
	8H	16.60	17.69	17.03	18.08	18.48	15.92	17.01	16.35	17.40	17.80
	12H	16.70	17.75	17.13	18.13	18.56	16.17	17.21	16.60	17.59	18.02
4H	2H	14.37	15.61	14.77	15.96	16.34	12.70	13.94	13.10	14.29	14.67
	3H	16.19	17.22	16.60	17.62	18.02	15.14	16.17	15.55	16.57	16.97
	4H	16.93	17.85	17.36	18.27	18.71	16.19	17.11	16.62	17.53	17.97
	6H	17.52	18.32	17.98	18.76	19.22	17.09	17.89	17.54	18.33	18.79
	8H	17.71	18.46	18.18	18.91	19.38	17.43	18.18	17.89	18.63	19.09
	12H	17.86	18.53	18.34	19.01	19.48	17.71	18.39	18.20	18.86	19.34
8H	4H	17.23	17.98	17.70	18.43	18.90	16.59	17.34	17.06	17.79	18.26
	6H	17.95	18.57	18.45	19.07	19.54	17.64	18.26	18.13	18.75	19.23
	8H	18.22	18.79	18.74	19.30	19.78	18.07	18.63	18.59	19.14	19.63
	12H	18.44	18.94	18.95	19.43	20.00	18.46	18.96	18.97	19.45	20.01
12H	4H	17.27	17.94	17.75	18.42	18.89	16.63	17.30	17.11	17.78	18.25
	6H	18.02	18.58	18.53	19.09	19.58	17.70	18.26	18.22	18.78	19.26
	8H	18.35	18.85	18.86	19.34	19.91	18.21	18.71	18.72	19.20	19.76