

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: P893068

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893068
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-SC3-LVRF-UNV-CC83-LOW-3500K
Description: Selectable 2FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 80CRI, 3500K CCT
lumen setting
Light Source: -
Ballast/Driver: -

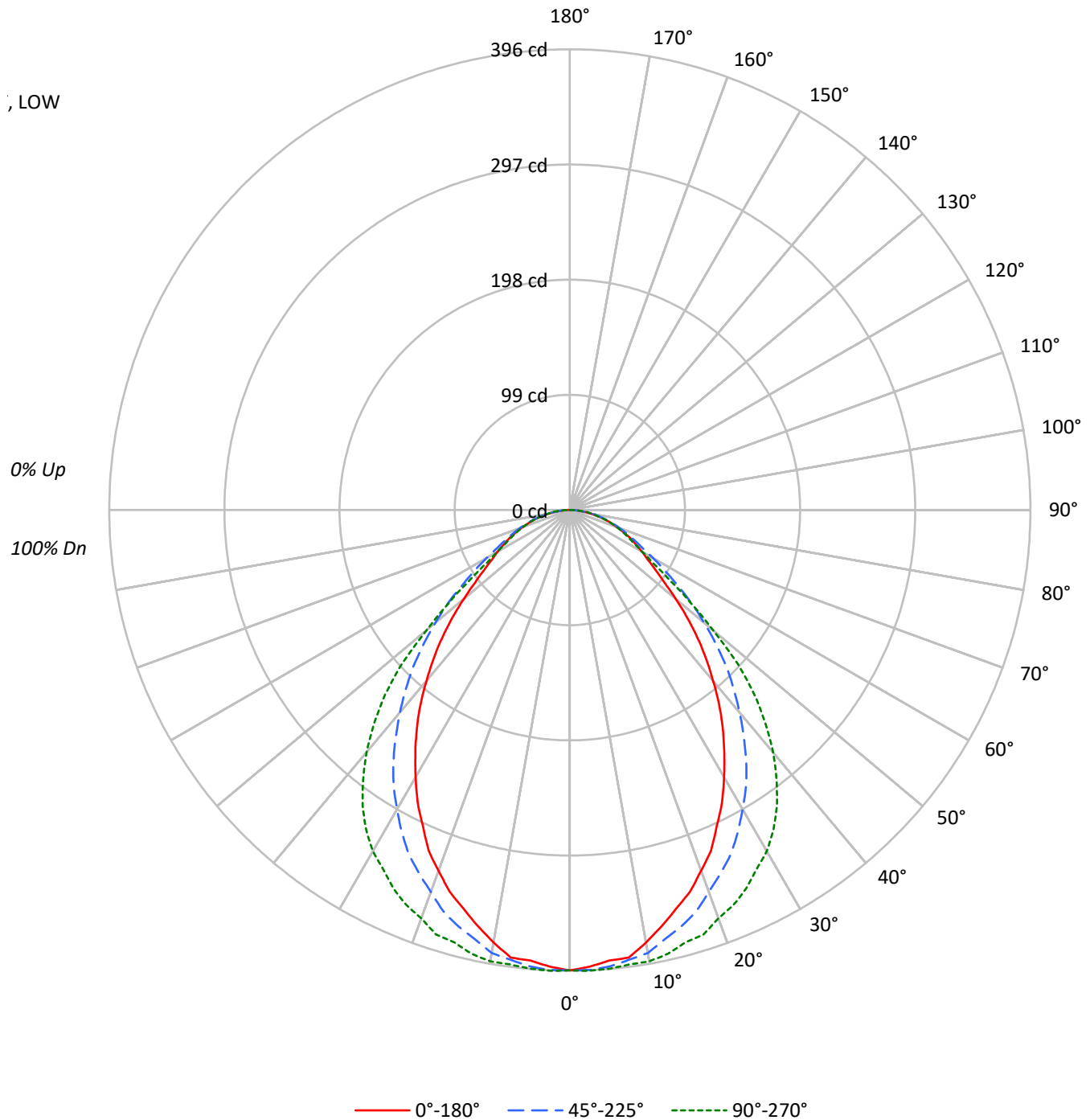
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 802.0 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Spacing Criteria (0/90/45): 1.04 / 1.26 / 1.21
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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	110	106	102	99	108	104	100	97	100	97	94	96	94	91	92	90	89	87	87	87
2	102	94	88	83	99	93	87	82	89	84	80	86	82	79	83	80	77	75	75	75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65	65	65
4	87	76	68	62	84	75	67	62	72	66	61	70	64	60	68	63	59	57	57	57
5	80	69	61	54	78	68	60	54	66	59	54	64	58	53	62	57	53	51	51	51
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	45	45	45
7	70	57	49	43	68	56	49	43	55	48	43	54	47	43	52	47	42	41	41	41
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	37	37	37
9	61	49	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	33	33	33
10	57	45	38	33	56	45	37	33	44	37	32	43	37	32	42	36	32	31	31	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5661	5661	5661
5°	5583	5656	5682
10°	5482	5616	5722
15°	5249	5487	5697
20°	5022	5318	5684
25°	4723	5161	5663
30°	4379	4906	5595
35°	4004	4617	5423
40°	3578	4241	5081
45°	3138	3848	4544
50°	2653	3354	3574
55°	2245	2818	2619
60°	2051	2355	2060
65°	1943	2068	1869
70°	1819	1911	1790
75°	1697	1796	1719
80°	1565	1689	1656
85°	1379	1494	1806

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4544 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.3	4.7
10°-20°	104.5	13.0
20°-30°	150.6	18.8
30°-40°	166.1	20.7
40°-50°	145.4	18.1
50°-60°	95.5	11.9
60°-70°	58.4	7.3
70°-80°	33.8	4.2
80°-90°	10.5	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°	292.4	36.5
0°-40°	458.5	57.2
0°-60°	699.4	87.2
0°-90°	802.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	802.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	396	396	396	396	396	
5°	389	393	394	396	396	37
15°	354	360	370	382	385	100
25°	299	309	327	347	359	138
35°	229	239	264	294	310	143
45°	155	165	190	214	225	119
55°	90	95	113	113	105	82
65°	57	57	61	58	55	57
75°	31	31	32	33	31	33
85°	8	8	9	10	11	10
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	395.7	395.7	395.7	395.7	395.7
2.5°	392.8	395.0	395.7	397.2	396.4
5°	388.8	392.8	393.9	396.1	395.7
7.5°	388.0	386.6	389.9	394.2	393.9
10°	377.4	380.3	386.6	393.1	393.9
12.5°	366.1	370.8	377.8	389.1	390.6
15°	354.4	360.2	370.5	382.5	384.7
17.5°	343.8	349.6	361.7	375.2	382.5
20°	329.9	337.9	349.3	366.1	373.4
22.5°	317.1	323.7	338.3	356.6	367.5
25°	299.2	309.4	327.0	346.7	358.8
27.5°	283.4	292.9	312.7	334.6	347.8
30°	265.1	275.8	297.0	321.5	338.7
32.5°	247.2	257.1	282.0	307.2	325.9
35°	229.3	239.2	264.4	293.7	310.5
37.5°	211.0	221.3	245.8	275.8	291.8
40°	191.6	203.3	227.1	256.7	272.1
42.5°	173.4	184.3	208.5	237.4	249.1
45°	155.1	164.6	190.2	213.6	224.6
47.5°	136.8	145.9	170.4	189.8	196.0
50°	119.2	127.6	150.7	162.7	160.6
52.5°	102.8	110.4	132.4	137.1	130.9
55°	90.0	94.7	113.0	113.4	105.0
57.5°	79.4	83.0	97.3	93.6	84.5
60°	71.7	72.8	82.3	78.3	72.0
62.5°	64.0	64.7	69.9	66.9	62.2
65°	57.4	57.4	61.1	58.5	55.2
67.5°	50.1	50.5	53.0	51.6	49.0
70°	43.5	43.5	45.7	45.7	42.8
72.5°	36.9	36.9	38.8	39.1	37.3
75°	30.7	30.7	32.5	33.3	31.1
77.5°	24.9	24.9	26.3	27.4	24.9
80°	19.0	19.0	20.5	21.6	20.1
82.5°	13.5	13.9	14.6	15.7	15.7
85°	8.4	8.4	9.1	9.9	11.0
87.5°	3.7	4.0	4.4	4.8	5.5
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	13.44	14.91	13.80	15.22	15.54	14.18	15.66	14.54	15.97	16.28
	3H	15.03	16.35	15.41	16.68	17.04	15.52	16.84	15.90	17.17	17.53
	4H	15.65	16.89	16.05	17.24	17.62	16.09	17.33	16.49	17.68	18.06
	6H	16.13	17.27	16.54	17.64	18.03	16.55	17.69	16.96	18.06	18.45
	8H	16.28	17.37	16.71	17.76	18.16	16.73	17.82	17.16	18.21	18.61
	12H	16.39	17.43	16.82	17.81	18.24	16.88	17.92	17.31	18.30	18.73
4H	2H	14.06	15.30	14.46	15.65	16.03	14.66	15.90	15.06	16.25	16.63
	3H	15.87	16.89	16.28	17.29	17.70	16.27	17.29	16.68	17.69	18.09
	4H	16.60	17.53	17.04	17.94	18.38	16.99	17.92	17.43	18.33	18.77
	6H	17.20	18.00	17.66	18.45	18.91	17.60	18.41	18.06	18.85	19.31
	8H	17.41	18.16	17.87	18.60	19.07	17.84	18.59	18.31	19.04	19.50
	12H	17.55	18.22	18.04	18.70	19.17	18.04	18.71	18.53	19.19	19.66
8H	4H	16.91	17.66	17.38	18.11	18.58	17.26	18.01	17.72	18.45	18.92
	6H	17.64	18.26	18.14	18.75	19.23	18.02	18.64	18.51	19.13	19.61
	8H	17.92	18.48	18.44	18.99	19.48	18.34	18.90	18.86	19.41	19.90
	12H	18.14	18.64	18.65	19.13	19.70	18.64	19.13	19.15	19.62	20.19
12H	4H	16.95	17.62	17.43	18.10	18.57	17.28	17.95	17.76	18.43	18.90
	6H	17.70	18.26	18.22	18.77	19.26	18.06	18.62	18.58	19.13	19.62
	8H	18.05	18.54	18.56	19.03	19.60	18.45	18.94	18.96	19.44	20.00