

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: P893077

Luminaire Tested: 2MB-SC3-LVRF-UNV-CC93-LOW-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893077
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-CC93-LOW-3500K
Description: Selectable 2FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 90CRI, 3500K CCT
lumen setting
Light Source: -
Ballast/Driver: -

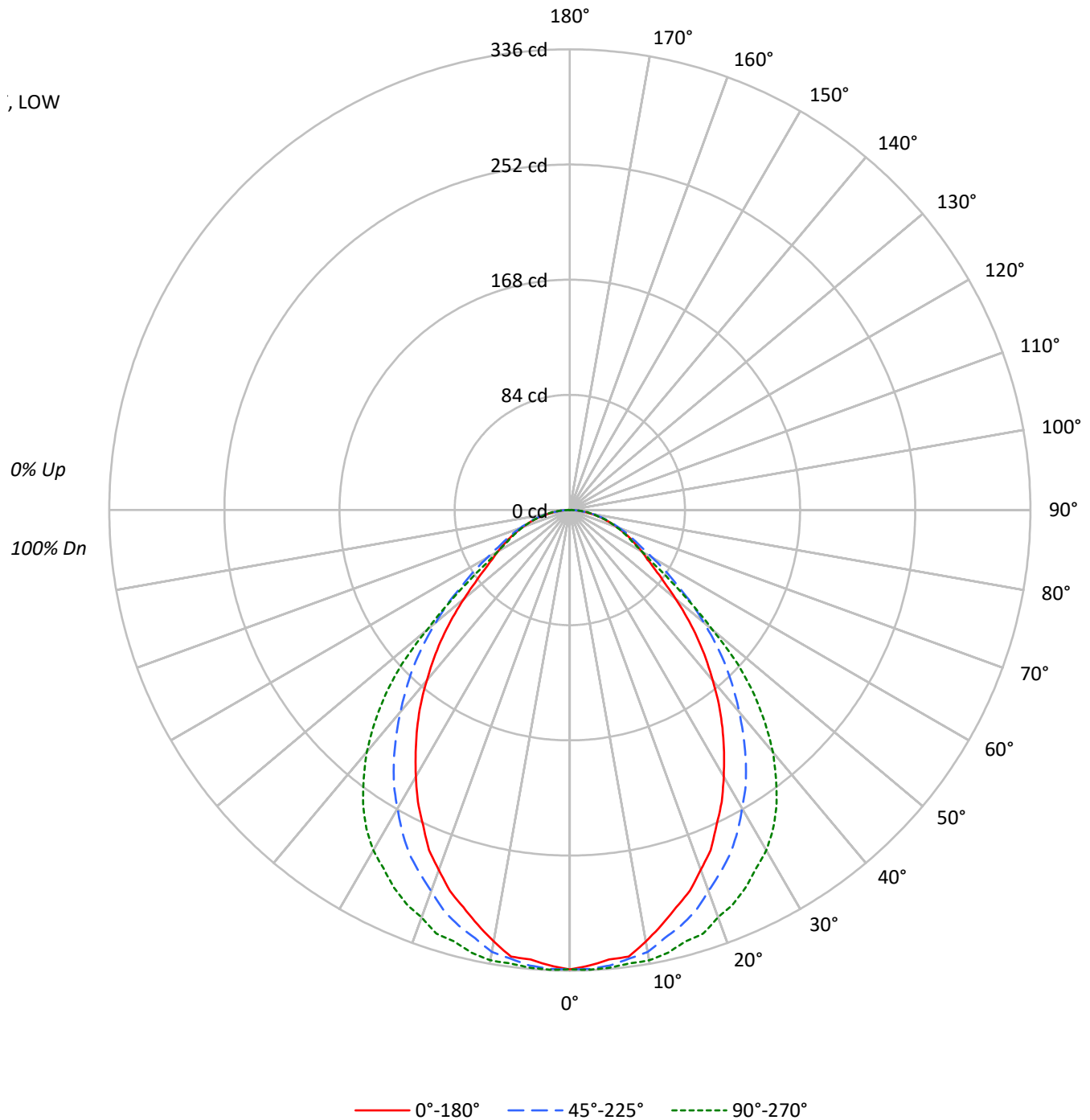
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 679.0 lumens
Efficiency: N/A
Efficacy: 98.4 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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CATALOG NUMBER: 2MB-SC3-LVRF-UNV-CC93-LOW-3500K

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	94	91	92	90	89	89	89	89	87
2	102	94	88	83	99	93	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	75	67	62	72	66	61	70	64	60	68	63	59	59	59	59	57
5	80	69	61	54	78	68	60	54	66	59	54	64	58	53	62	57	53	53	53	53	51
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	47	47	47	45
7	70	57	49	43	68	56	49	43	55	48	43	54	47	43	52	47	42	42	42	42	41
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	38	38	38	37
9	61	49	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	35	35	35	33
10	57	45	38	33	56	45	37	33	44	37	32	43	37	32	42	36	32	32	32	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4792	4792	4792
5°	4726	4789	4811
10°	4641	4754	4844
15°	4443	4646	4824
20°	4252	4502	4812
25°	3998	4369	4794
30°	3708	4153	4736
35°	3390	3910	4591
40°	3029	3591	4303
45°	2656	3257	3846
50°	2246	2840	3025
55°	1900	2387	2217
60°	1737	1994	1745
65°	1645	1750	1584
70°	1539	1619	1514
75°	1437	1526	1454
80°	1326	1425	1400
85°	1165	1264	1526

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3846 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.6	4.7
10°-20°	88.4	13.0
20°-30°	127.5	18.8
30°-40°	140.6	20.7
40°-50°	123.1	18.1
50°-60°	80.9	11.9
60°-70°	49.4	7.3
70°-80°	28.6	4.2
80°-90°	8.9	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°	247.5	36.5
0°-40°	388.1	57.2
0°-60°	592.1	87.2
0°-90°	679.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	679.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	335	335	335	335	335	
5°	329	332	334	335	335	31
15°	300	305	314	324	326	85
25°	253	262	277	294	304	117
35°	194	202	224	249	263	121
45°	131	139	161	181	190	101
55°	76	80	96	96	89	69
65°	49	49	52	50	47	48
75°	26	26	28	28	26	28
85°	7	7	8	8	9	8
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	335.0	335.0	335.0	335.0	335.0
2.5°	332.5	334.4	335.0	336.3	335.6
5°	329.1	332.5	333.5	335.3	335.0
7.5°	328.5	327.3	330.1	333.8	333.5
10°	319.5	322.0	327.3	332.9	333.5
12.5°	309.9	314.0	319.8	329.4	330.7
15°	300.0	305.0	313.7	323.9	325.7
17.5°	291.1	296.0	306.2	317.7	323.9
20°	279.3	286.1	295.7	309.9	316.1
22.5°	268.4	274.0	286.4	301.9	311.2
25°	253.3	261.9	276.8	293.5	303.7
27.5°	240.0	248.0	264.7	283.3	294.5
30°	224.5	233.5	251.4	272.2	286.7
32.5°	209.3	217.7	238.7	260.1	275.9
35°	194.1	202.5	223.9	248.6	262.9
37.5°	178.7	187.3	208.1	233.5	247.1
40°	162.2	172.2	192.3	217.4	230.4
42.5°	146.8	156.1	176.5	200.9	210.9
45°	131.3	139.3	161.0	180.8	190.1
47.5°	115.8	123.5	144.3	160.7	166.0
50°	100.9	108.1	127.6	137.8	135.9
52.5°	87.0	93.5	112.1	116.1	110.8
55°	76.2	80.2	95.7	96.0	88.9
57.5°	67.2	70.3	82.4	79.3	71.5
60°	60.7	61.6	69.7	66.3	61.0
62.5°	54.2	54.8	59.1	56.7	52.6
65°	48.6	48.6	51.7	49.5	46.8
67.5°	42.4	42.7	44.9	43.7	41.5
70°	36.8	36.8	38.7	38.7	36.2
72.5°	31.3	31.3	32.8	33.1	31.6
75°	26.0	26.0	27.6	28.2	26.3
77.5°	21.1	21.1	22.3	23.2	21.1
80°	16.1	16.1	17.3	18.3	17.0
82.5°	11.5	11.8	12.4	13.3	13.3
85°	7.1	7.1	7.7	8.4	9.3
87.5°	3.1	3.4	3.7	4.0	4.6
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	12.86	14.33	13.22	14.65	14.96	13.60	15.08	13.97	15.39	15.71
	3H	14.45	15.77	14.83	16.10	16.46	14.94	16.26	15.32	16.59	16.96
	4H	15.07	16.31	15.47	16.66	17.04	15.52	16.75	15.92	17.10	17.48
	6H	15.55	16.69	15.96	17.06	17.45	15.97	17.12	16.39	17.48	17.88
	8H	15.71	16.80	16.14	17.19	17.59	16.15	17.24	16.58	17.63	18.03
	12H	15.81	16.85	16.24	17.24	17.67	16.30	17.34	16.74	17.73	18.16
4H	2H	13.48	14.72	13.88	15.07	15.45	14.08	15.32	14.48	15.67	16.05
	3H	15.29	16.31	15.70	16.71	17.12	15.69	16.71	16.10	17.11	17.51
	4H	16.03	16.95	16.46	17.36	17.80	16.42	17.34	16.85	17.75	18.19
	6H	16.63	17.43	17.08	17.87	18.33	17.03	17.83	17.49	18.27	18.73
	8H	16.83	17.58	17.30	18.03	18.49	17.26	18.01	17.73	18.46	18.93
	12H	16.98	17.65	17.46	18.13	18.60	17.47	18.14	17.95	18.62	19.09
8H	4H	16.34	17.09	16.80	17.53	18.00	16.68	17.43	17.15	17.88	18.35
	6H	17.06	17.68	17.56	18.18	18.65	17.44	18.06	17.94	18.55	19.03
	8H	17.35	17.90	17.86	18.41	18.90	17.76	18.32	18.28	18.83	19.32
	12H	17.57	18.06	18.08	18.56	19.12	18.06	18.55	18.57	19.05	19.61
12H	4H	16.37	17.04	16.85	17.52	17.99	16.70	17.37	17.19	17.85	18.32
	6H	17.13	17.69	17.64	18.20	18.69	17.49	18.04	18.00	18.56	19.04
	8H	17.47	17.97	17.98	18.46	19.02	17.87	18.37	18.38	18.86	19.43