

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: P892935

Luminaire Tested: 2MB-SC3-AOL-UNV-CC93-LOW-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892935
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-SC3-AOL-UNV-CC93-LOW-5000K
Description: Selectable 2FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS NO UPLIGHT, 900
5000K CCT, LOW lumen setting
Light Source: -
Ballast/Driver: -

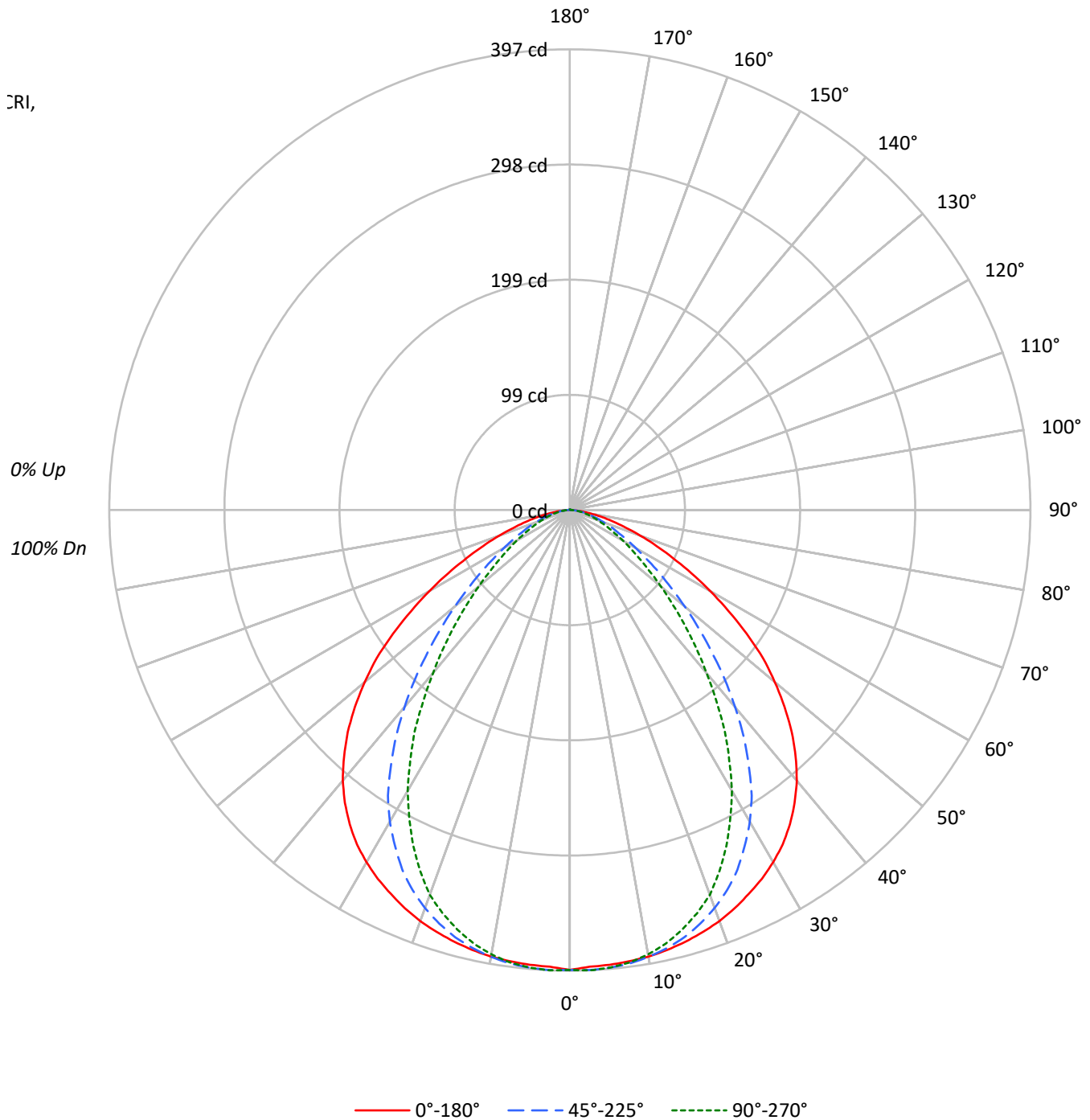
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 808.0 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.08 / 1.18
Luminous Opening: Rectangular (W 0.27' 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	102	102	102	100
1	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	89	89	89	87
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	78	78	78	76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	68	68	68	66
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	60	60	60	58
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	53	53	53	52
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	52	48	48	48	48	46
7	70	58	50	44	69	57	49	44	56	49	44	54	48	43	53	47	43	43	43	43	41
8	66	53	45	40	64	52	45	40	51	44	40	50	44	39	49	43	39	39	39	39	37
9	62	49	42	36	60	49	41	36	47	41	36	46	40	36	45	40	36	36	36	36	34
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	33	33	33	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8115	8115	8115
5°	8086	8140	8136
10°	8124	8130	8084
15°	8164	8083	7935
20°	8215	7954	7690
25°	8247	7725	7216
30°	8287	7337	6609
35°	8267	6724	5827
40°	8137	5923	4900
45°	7836	5004	4043
50°	7349	4116	3262
55°	6640	3338	2620
60°	5717	2687	2175
65°	4753	2219	1802
70°	3897	1862	1539
75°	3093	1590	1337
80°	2335	1356	1203
85°	1574	1269	1128

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7836 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.6	4.7
10°-20°	107.3	13.3
20°-30°	157.1	19.4
30°-40°	171.4	21.2
40°-50°	145.4	18.0
50°-60°	98.8	12.2
60°-70°	55.8	6.9
70°-80°	25.5	3.2
80°-90°	6.6	0.8
90°-100°	0.9	0.1
100°-110°	0.5	0.1
110°-120°	0.3	0.0
120°-130°	0.2	0.0
130°-140°	0.2	0.0
140°-150°	0.2	0.0
150°-160°	0.1	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	302.0	37.4
0°-40°	473.4	58.6
0°-60°	717.5	88.8
0°-90°	805.5	99.7
90°-120°	1.6	0.2
90°-150°	2.3	0.3
90°-180°	3.0	0.4
0°-180°	808.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	396	396	396	396	396	
5°	393	396	396	397	396	37
15°	385	385	381	377	374	109
25°	365	359	342	326	319	168
35°	331	310	269	241	233	206
45°	271	229	173	147	140	208
55°	186	138	94	78	73	166
65°	98	70	46	39	37	99
75°	39	29	20	18	17	42
85°	7	6	5	5	5	8
90°	0	1	1	1	1	0
95°	0	0	1	1	1	0
105°	0	0	0	1	1	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	396.3	396.3	396.3	396.3	396.3
2.5°	393.9	396.0	396.8	397.9	397.1
5°	393.4	395.5	396.0	396.8	395.8
7.5°	392.3	394.2	394.2	394.2	393.4
10°	390.7	392.0	391.0	389.9	388.8
12.5°	388.3	388.8	386.7	384.8	382.6
15°	385.1	384.8	381.3	377.0	374.3
17.5°	381.3	380.2	373.8	368.2	364.4
20°	377.0	374.3	365.0	356.1	352.9
22.5°	371.4	367.6	354.5	342.2	336.8
25°	365.0	358.8	341.9	326.4	319.4
27.5°	358.3	349.2	326.4	307.1	299.6
30°	350.5	337.9	310.3	288.1	279.5
32.5°	341.6	325.6	291.8	265.0	255.9
35°	330.7	309.5	269.0	240.9	233.1
37.5°	318.3	292.3	246.0	216.8	207.4
40°	304.4	272.8	221.6	192.4	183.3
42.5°	288.1	251.9	197.5	169.1	161.3
45°	270.6	228.6	172.8	146.8	139.6
47.5°	251.1	205.5	150.3	125.7	120.0
50°	230.7	182.5	129.2	108.0	102.4
52.5°	210.1	159.4	109.6	91.6	86.8
55°	186.0	137.5	93.5	77.7	73.4
57.5°	162.4	117.9	78.2	65.1	62.4
60°	139.6	99.1	65.6	54.9	53.1
62.5°	118.4	83.1	55.2	46.4	43.9
65°	98.1	69.7	45.8	39.1	37.2
67.5°	80.7	56.8	38.3	32.4	30.8
70°	65.1	45.8	31.1	26.5	25.7
72.5°	50.6	36.7	25.5	22.0	21.2
75°	39.1	28.7	20.1	17.7	16.9
77.5°	28.7	21.4	15.5	13.7	13.1
80°	19.8	15.3	11.5	10.5	10.2
82.5°	12.6	9.9	8.3	7.5	7.5
85°	6.7	6.2	5.4	5.1	4.8
87.5°	2.7	2.9	2.9	2.9	2.7
90°	0.0	0.8	1.1	1.3	1.3
92.5°	0.0	0.5	1.1	1.3	1.3
95°	0.0	0.3	0.8	1.3	1.3
97.5°	0.0	0.3	0.8	1.1	1.1
100°	0.0	0.3	0.5	1.1	1.1
102.5°	0.0	0.3	0.5	0.8	1.1
105°	0.0	0.3	0.5	0.8	0.8
107.5°	0.0	0.0	0.5	0.8	0.8
110°	0.0	0.0	0.3	0.5	0.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.3	0.5	0.8
115°	0.0	0.0	0.3	0.5	0.5
117.5°	0.0	0.0	0.3	0.5	0.5
120°	0.0	0.0	0.3	0.5	0.5
122.5°	0.0	0.0	0.3	0.5	0.5
125°	0.0	0.0	0.3	0.5	0.5
127.5°	0.0	0.3	0.3	0.3	0.5
130°	0.0	0.3	0.3	0.3	0.5
132.5°	0.3	0.3	0.3	0.3	0.3
135°	0.3	0.3	0.3	0.3	0.3
137.5°	0.3	0.3	0.3	0.3	0.3
140°	0.3	0.3	0.3	0.3	0.3
142.5°	0.3	0.3	0.3	0.3	0.3
145°	0.3	0.3	0.3	0.3	0.3
147.5°	0.3	0.3	0.3	0.3	0.3
150°	0.3	0.3	0.3	0.3	0.3
152.5°	0.3	0.3	0.3	0.3	0.3
155°	0.3	0.3	0.3	0.3	0.3
157.5°	0.3	0.3	0.3	0.3	0.3
160°	0.3	0.3	0.3	0.3	0.5
162.5°	0.3	0.3	0.3	0.5	0.5
165°	0.3	0.3	0.3	0.5	0.5
167.5°	0.3	0.3	0.3	0.5	0.5
170°	0.3	0.3	0.3	0.5	0.5
172.5°	0.3	0.3	0.3	0.5	0.5
175°	0.3	0.3	0.5	0.5	0.5
177.5°	0.3	0.3	0.5	0.5	0.5
180°	0.5	0.5	0.5	0.5	0.5



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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	17.61	19.05	17.98	19.37	19.70	12.97	14.41	13.34	14.73	15.06
	3H	18.86	20.15	19.25	20.48	20.86	14.01	15.30	14.39	15.63	16.00
	4H	19.26	20.46	19.67	20.82	21.21	14.38	15.58	14.79	15.94	16.33
	6H	19.50	20.61	19.92	20.98	21.38	14.64	15.75	15.06	16.12	16.53
	8H	19.55	20.61	19.99	21.00	21.42	14.73	15.79	15.17	16.18	16.59
	12H	19.57	20.58	20.01	20.97	21.41	14.80	15.80	15.23	16.19	16.63
4H	2H	17.62	18.83	18.03	19.18	19.57	13.54	14.75	13.95	15.10	15.49
	3H	19.03	20.02	19.45	20.43	20.84	14.77	15.76	15.19	16.17	16.58
	4H	19.52	20.41	19.96	20.84	21.28	15.23	16.12	15.67	16.54	16.99
	6H	19.87	20.64	20.33	21.09	21.56	15.59	16.36	16.05	16.81	17.28
	8H	19.95	20.67	20.42	21.12	21.60	15.71	16.43	16.18	16.88	17.36
	12H	20.00	20.64	20.49	21.13	21.61	15.81	16.45	16.30	16.94	17.42
8H	4H	19.52	20.23	19.99	20.69	21.16	15.52	16.24	15.99	16.69	17.17
	6H	19.91	20.50	20.41	21.00	21.49	15.97	16.56	16.47	17.06	17.55
	8H	20.03	20.56	20.55	21.08	21.58	16.15	16.68	16.67	17.20	17.69
	12H	20.12	20.59	20.64	21.09	21.67	16.31	16.78	16.83	17.28	17.86
12H	4H	19.49	20.13	19.98	20.62	21.10	15.55	16.19	16.04	16.68	17.16
	6H	19.88	20.41	20.40	20.93	21.43	16.02	16.55	16.54	17.07	17.57
	8H	20.03	20.51	20.55	21.00	21.58	16.25	16.72	16.77	17.22	17.79