

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: P892933

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892933
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-3500K
Description: Selectable 2FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS NO UPLIGHT, 90C
3500K CCT, LOW lumen setting
Light Source: -
Ballast/Driver: -

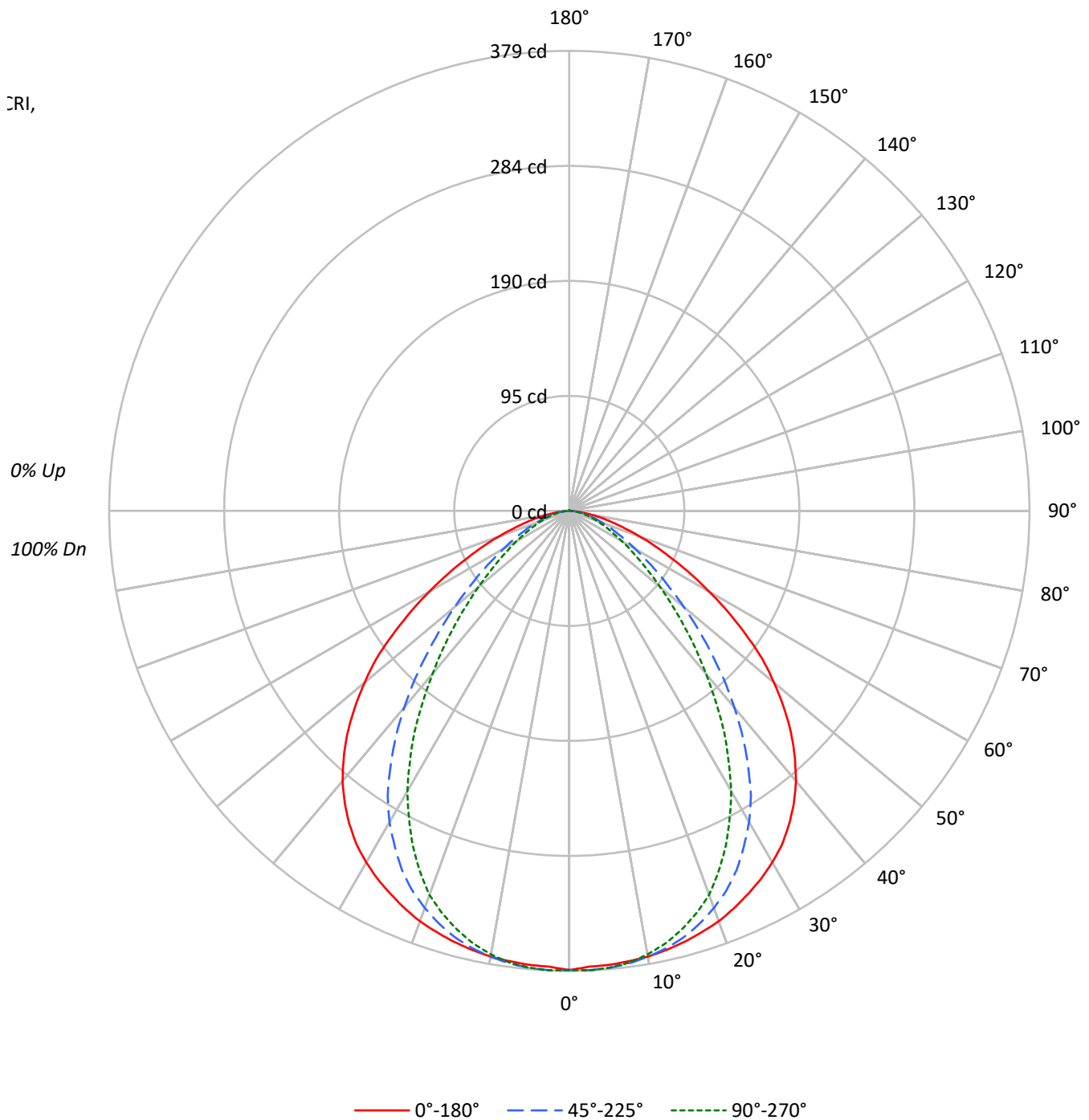
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 771.1 lumens
Efficiency: N/A
Efficacy: 111.8 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	41	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°	7744	7744	7744
5°	7716	7768	7764
10°	7751	7756	7714
15°	7788	7712	7572
20°	7840	7587	7337
25°	7867	7372	6886
30°	7907	7001	6306
35°	7887	6417	5559
40°	7765	5653	4675
45°	7477	4775	3857
50°	7011	3925	3112
55°	6333	3184	2503
60°	5455	2564	2072
65°	4535	2117	1720
70°	3718	1778	1467
75°	2951	1519	1274
80°	2229	1297	1144
85°	1504	1198	1081

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7477 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.9	4.7
10°-20°	102.4	13.3
20°-30°	149.9	19.4
30°-40°	163.6	21.2
40°-50°	138.7	18.0
50°-60°	94.3	12.2
60°-70°	53.2	6.9
70°-80°	24.3	3.2
80°-90°	6.4	0.8
90°-100°	0.8	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°	288.1	37.4
0°-40°	451.7	58.6
0°-60°	684.7	88.8
0°-90°	768.6	99.7
90°-120°	1.6	0.2
90°-150°	2.3	0.3
90°-180°	3.0	0.4
0°-180°	771.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	378	378	378	378	378	
5°	375	377	378	379	378	36
15°	367	367	364	360	357	104
25°	348	342	326	311	305	161
35°	316	295	257	230	222	197
45°	258	218	165	140	133	198
55°	177	131	89	74	70	158
65°	94	66	44	37	36	94
75°	37	27	19	17	16	40
85°	6	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°	378.2	378.2	378.2	378.2	378.2
2.5°	375.9	377.9	378.7	379.7	378.9
5°	375.4	377.4	377.9	378.7	377.7
7.5°	374.3	376.1	376.1	376.1	375.4
10°	372.8	374.1	373.0	372.0	371.0
12.5°	370.5	371.0	369.0	367.2	365.1
15°	367.4	367.2	363.8	359.8	357.2
17.5°	363.8	362.8	356.7	351.3	347.7
20°	359.8	357.2	348.2	339.8	336.7
22.5°	354.4	350.8	338.3	326.5	321.4
25°	348.2	342.4	326.3	311.4	304.8
27.5°	341.9	333.2	311.4	293.0	285.9
30°	334.4	322.4	296.1	274.9	266.7
32.5°	326.0	310.7	278.4	252.9	244.2
35°	315.5	295.3	256.7	229.9	222.4
37.5°	303.8	279.0	234.7	206.9	197.9
40°	290.5	260.3	211.5	183.6	174.9
42.5°	274.9	240.3	188.4	161.3	153.9
45°	258.2	218.1	164.9	140.1	133.2
47.5°	239.6	196.1	143.4	119.9	114.5
50°	220.1	174.1	123.2	103.0	97.7
52.5°	200.5	152.1	104.6	87.4	82.8
55°	177.4	131.2	89.2	74.1	70.1
57.5°	154.9	112.5	74.7	62.1	59.6
60°	133.2	94.6	62.6	52.4	50.6
62.5°	113.0	79.3	52.7	44.2	41.9
65°	93.6	66.5	43.7	37.3	35.5
67.5°	77.0	54.2	36.6	30.9	29.4
70°	62.1	43.7	29.7	25.3	24.5
72.5°	48.3	35.0	24.3	21.0	20.2
75°	37.3	27.4	19.2	16.9	16.1
77.5°	27.4	20.5	14.8	13.0	12.5
80°	18.9	14.6	11.0	10.0	9.7
82.5°	12.0	9.5	7.9	7.2	7.2
85°	6.4	5.9	5.1	4.9	4.6
87.5°	2.6	2.8	2.8	2.8	2.6
90°	0.0	0.8	1.0	1.3	1.3
92.5°	0.0	0.5	1.0	1.3	1.3
95°	0.0	0.3	0.8	1.3	1.3
97.5°	0.0	0.3	0.8	1.0	1.0
100°	0.0	0.3	0.5	1.0	1.0
102.5°	0.0	0.3	0.5	0.8	1.0
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	17.44	18.89	17.82	19.21	19.53	12.81	14.25	13.18	14.57	14.89
	3H	18.70	19.98	19.08	20.32	20.69	13.85	15.13	14.23	15.47	15.84
	4H	19.10	20.30	19.50	20.66	21.04	14.21	15.42	14.62	15.77	16.16
	6H	19.34	20.45	19.76	20.82	21.22	14.47	15.58	14.89	15.96	16.36
	8H	19.39	20.44	19.82	20.84	21.25	14.57	15.62	15.00	16.02	16.43
	12H	19.41	20.42	19.85	20.81	21.24	14.63	15.64	15.07	16.03	16.47
4H	2H	17.46	18.66	17.87	19.02	19.41	13.38	14.58	13.79	14.94	15.33
	3H	18.87	19.86	19.29	20.27	20.68	14.61	15.60	15.02	16.01	16.42
	4H	19.36	20.25	19.80	20.67	21.12	15.07	15.96	15.51	16.38	16.83
	6H	19.70	20.47	20.17	20.92	21.39	15.42	16.19	15.89	16.64	17.11
	8H	19.79	20.51	20.26	20.96	21.44	15.55	16.27	16.02	16.72	17.20
	12H	19.84	20.48	20.33	20.96	21.44	15.65	16.29	16.14	16.78	17.26
8H	4H	19.35	20.07	19.82	20.52	21.00	15.36	16.08	15.83	16.53	17.00
	6H	19.75	20.34	20.25	20.84	21.32	15.80	16.39	16.31	16.89	17.38
	8H	19.87	20.40	20.39	20.92	21.41	15.98	16.52	16.51	17.03	17.53
	12H	19.96	20.43	20.48	20.93	21.50	16.15	16.62	16.67	17.12	17.70
12H	4H	19.33	19.97	19.82	20.45	20.93	15.39	16.03	15.88	16.51	16.99
	6H	19.72	20.25	20.24	20.77	21.26	15.85	16.39	16.37	16.90	17.40
	8H	19.87	20.34	20.39	20.84	21.42	16.09	16.56	16.60	17.06	17.63