

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: P892934

Luminaire Tested: 2MB-SC3-AOL-UNV-CC93-LOW-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892934
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-4000K
Description: Selectable 2FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS NO UPLIGHT, 900
4000K CCT, LOW lumen setting
Light Source: -
Ballast/Driver: -

Summary

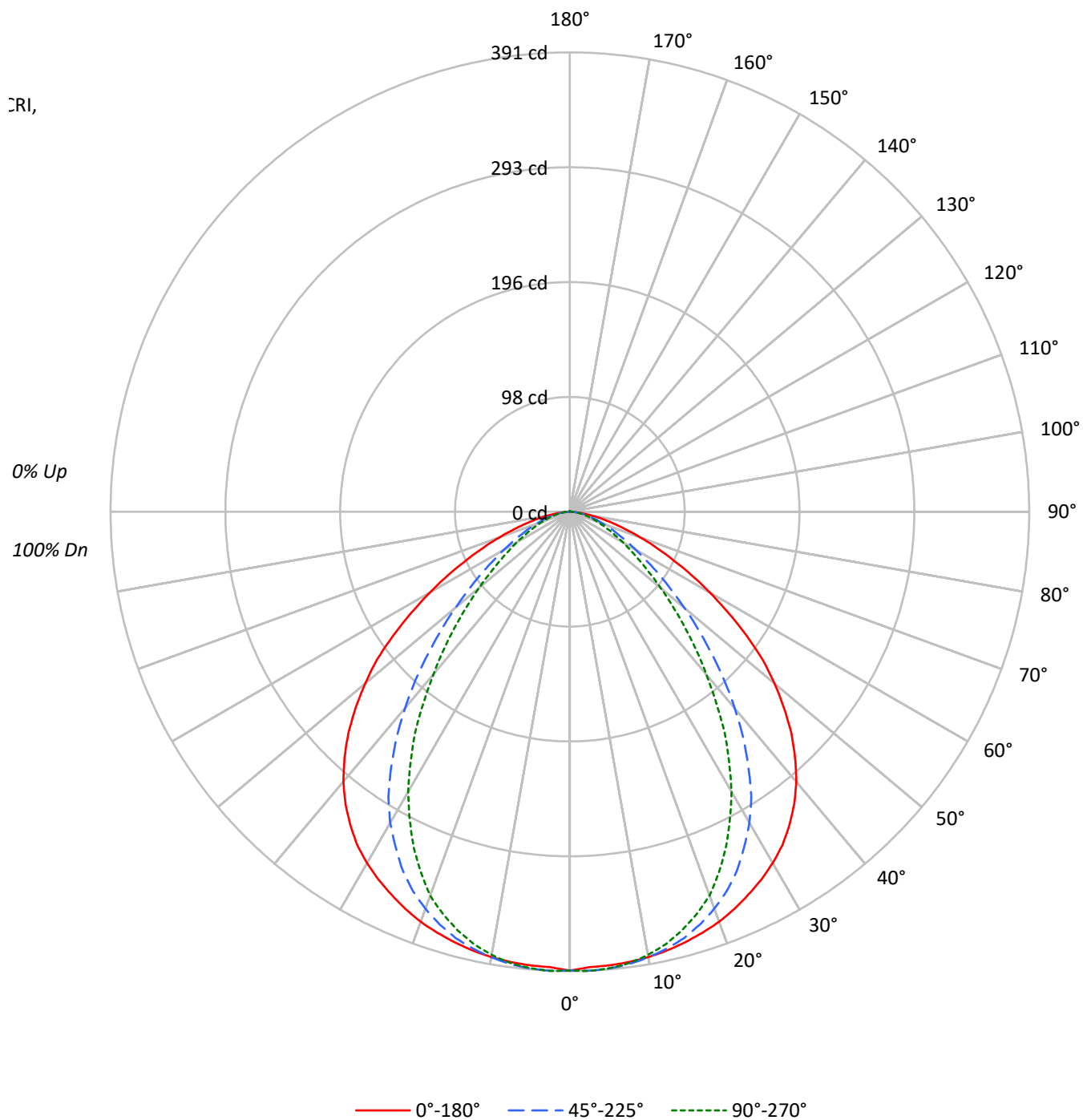
Lumens per Lamp: N/A
Luminaire Lumens: 796.1 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.08 / 1.18
Luminous Opening: Rectangular (W 0.27' x L: 1.98' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P892934

CATALOG NUMBER: 2MB-SC3-AOL-UNV-CC93-LOW-4000K

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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	107	103	100	108	104	101	98	100	97	95		96	94	92		93
2	102	95	89	84	100	93	88	83	90	85	81		87	83	80		84
3	94	85	78	72	92	84	77	72	81	75	71		78	73	69		76
4	87	77	69	63	85	75	68	63	73	67	62		71	65	61		69
5	81	69	61	55	79	68	61	55	66	60	55		64	59	54		63
6	75	63	55	49	73	62	55	49	61	54	49		59	53	48		57
7	70	58	50	44	69	57	49	44	56	49	44		54	48	43		53
8	66	53	45	40	64	52	45	40	51	44	40		50	44	39		49
9	62	49	41	36	60	49	41	36	47	41	36		46	40	36		45
10	58	46	38	33	57	45	38	33	44	38	33		43	37	33		42

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7994	7994	7994
5°	7965	8020	8014
10°	8003	8007	7963
15°	8041	7962	7818
20°	8093	7834	7577
25°	8122	7609	7110
30°	8164	7228	6509
35°	8144	6624	5742
40°	8016	5835	4827
45°	7720	4932	3982
50°	7241	4052	3211
55°	6540	3288	2581
60°	5631	2650	2142
65°	4680	2185	1778
70°	3838	1832	1515
75°	3046	1566	1313
80°	2299	1344	1179
85°	1551	1245	1128

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7720 cd/sqm

TEST NUMBER: P892934

CATALOG NUMBER: 2MB-SC3-AOL-UNV-CC93-LOW-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.1	4.7
10°-20°	105.7	13.3
20°-30°	154.8	19.4
30°-40°	168.9	21.2
40°-50°	143.2	18.0
50°-60°	97.3	12.2
60°-70°	55.0	6.9
70°-80°	25.1	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°	297.5	37.4
0°-40°	466.4	58.6
0°-60°	706.9	88.8
0°-90°	793.5	99.7
90°-120°	1.6	0.2
90°-150°	2.3	0.3
90°-180°	3.0	0.4
0°-180°	796.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	390	390	390	390	390	
5°	388	390	390	391	390	37
15°	379	379	376	371	369	107
25°	360	354	337	322	315	166
35°	326	305	265	237	230	203
45°	267	225	170	145	138	205
55°	183	135	92	77	72	164
65°	97	69	45	38	37	97
75°	38	28	20	17	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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CATALOG NUMBER: 2MB-SC3-AOL-UNV-CC93-LOW-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	390.4	390.4	390.4	390.4	390.4
2.5°	388.0	390.2	391.0	392.0	391.2
5°	387.5	389.6	390.2	391.0	389.9
7.5°	386.5	388.3	388.3	388.3	387.5
10°	384.9	386.2	385.1	384.1	383.0
12.5°	382.5	383.0	380.9	379.1	377.0
15°	379.3	379.1	375.6	371.4	368.8
17.5°	375.6	374.6	368.3	362.7	359.0
20°	371.4	368.8	359.5	350.8	347.7
22.5°	365.9	362.2	349.2	337.1	331.8
25°	359.5	353.5	336.8	321.5	314.7
27.5°	352.9	344.0	321.5	302.5	295.1
30°	345.3	332.9	305.7	283.8	275.3
32.5°	336.6	320.7	287.5	261.1	252.1
35°	325.8	304.9	265.0	237.3	229.7
37.5°	313.6	288.0	242.3	213.6	204.3
40°	299.9	268.7	218.3	189.5	180.6
42.5°	283.8	248.1	194.6	166.6	158.9
45°	266.6	225.2	170.3	144.7	137.5
47.5°	247.3	202.5	148.1	123.8	118.3
50°	227.3	179.8	127.2	106.4	100.8
52.5°	207.0	157.1	108.0	90.3	85.5
55°	183.2	135.4	92.1	76.6	72.3
57.5°	160.0	116.2	77.1	64.1	61.5
60°	137.5	97.7	64.7	54.1	52.3
62.5°	116.7	81.8	54.4	45.7	43.3
65°	96.6	68.6	45.1	38.5	36.7
67.5°	79.5	56.0	37.7	31.9	30.4
70°	64.1	45.1	30.6	26.1	25.3
72.5°	49.9	36.2	25.1	21.6	20.9
75°	38.5	28.2	19.8	17.4	16.6
77.5°	28.2	21.1	15.3	13.5	12.9
80°	19.5	15.0	11.4	10.3	10.0
82.5°	12.4	9.8	8.2	7.4	7.4
85°	6.6	6.1	5.3	5.0	4.8
87.5°	2.6	2.9	2.9	2.9	2.6
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



TEST NUMBER: P892934

CATALOG NUMBER: 2MB-SC3-AOL-UNV-CC93-LOW-4000K

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	17.56	19.00	17.93	19.32	19.65	12.92	14.36	13.29	14.68	15.00
	3H	18.81	20.10	19.19	20.43	20.80	13.96	15.24	14.34	15.58	15.95
	4H	19.21	20.41	19.62	20.77	21.16	14.32	15.53	14.73	15.88	16.27
	6H	19.45	20.56	19.87	20.93	21.33	14.58	15.69	15.00	16.07	16.47
	8H	19.50	20.56	19.94	20.95	21.36	14.68	15.73	15.11	16.13	16.54
	12H	19.52	20.53	19.96	20.92	21.36	14.74	15.75	15.18	16.14	16.58
4H	2H	17.57	18.78	17.98	19.13	19.52	13.49	14.69	13.90	15.05	15.44
	3H	18.98	19.97	19.40	20.38	20.79	14.72	15.71	15.13	16.12	16.53
	4H	19.47	20.36	19.91	20.78	21.23	15.17	16.06	15.61	16.49	16.94
	6H	19.81	20.58	20.28	21.03	21.50	15.53	16.30	16.00	16.75	17.22
	8H	19.90	20.62	20.37	21.07	21.55	15.66	16.38	16.13	16.83	17.30
	12H	19.95	20.59	20.44	21.07	21.55	15.76	16.40	16.25	16.88	17.36
8H	4H	19.46	20.18	19.93	20.63	21.11	15.47	16.19	15.94	16.64	17.11
	6H	19.85	20.45	20.36	20.95	21.43	15.91	16.50	16.42	17.00	17.49
	8H	19.98	20.51	20.50	21.03	21.52	16.09	16.62	16.61	17.14	17.64
	12H	20.07	20.54	20.59	21.04	21.61	16.26	16.73	16.77	17.23	17.80
12H	4H	19.44	20.08	19.93	20.56	21.04	15.50	16.14	15.99	16.62	17.10
	6H	19.83	20.36	20.35	20.88	21.37	15.96	16.50	16.48	17.01	17.51
	8H	19.98	20.45	20.50	20.95	21.53	16.19	16.66	16.71	17.16	17.74