

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: P892901

Luminaire Tested: 2MB-SC3-A-UNV-CC93-MID-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892901
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-SC3-A-UNV-CC93-MID-4000K
Description: Selectable 2FT MICROBAY LINEAR BAY with AISLE OPTIC, 90CRI, 4000K CCT, MID lumen setting
Light Source: -
Ballast/Driver: -

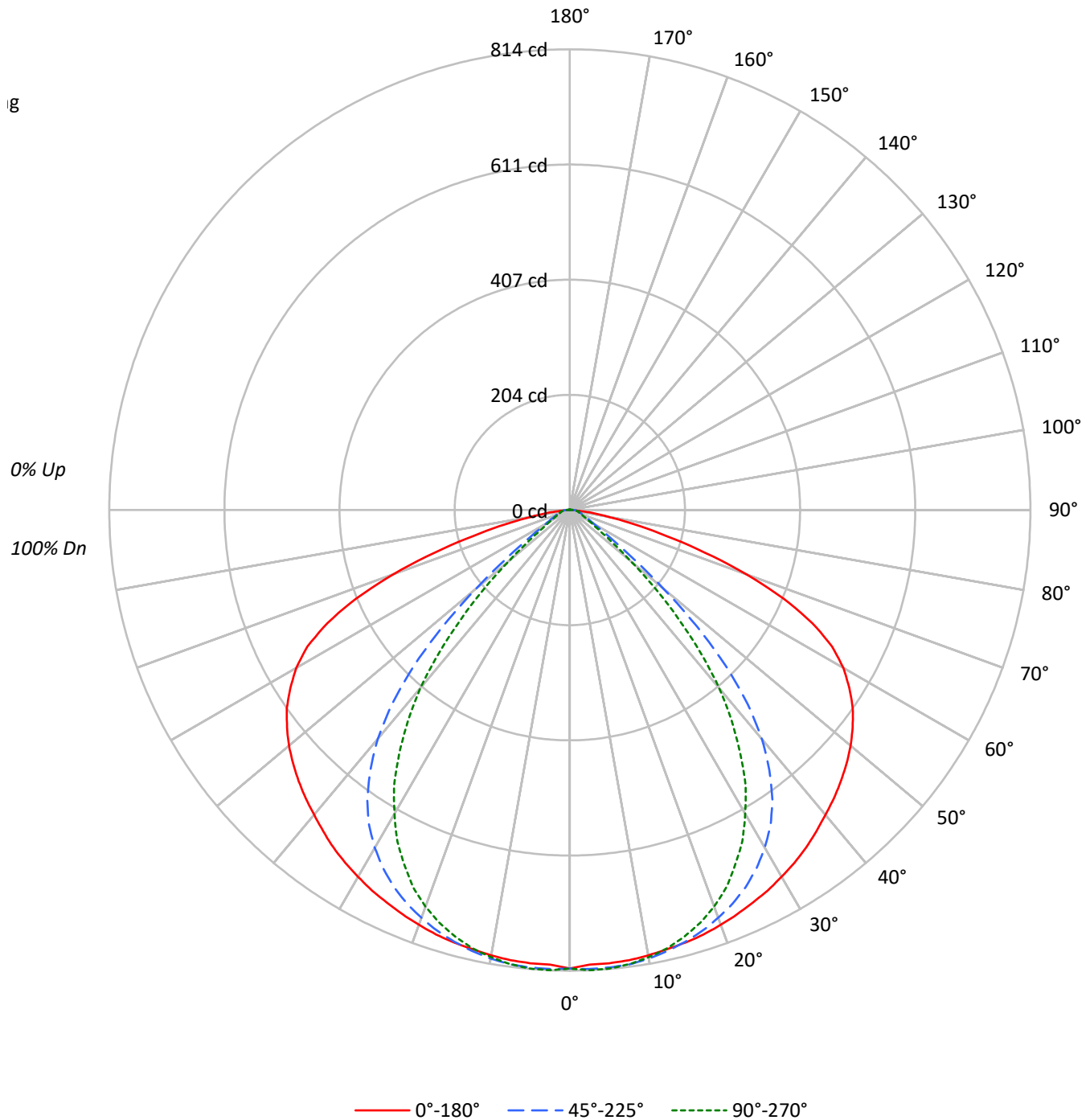
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1698.9 lumens
Efficiency: N/A
Efficacy: 122.2 lumens/watt
Spacing Criteria (0/90/45): 1.39 / 1.15 / 1.25
Luminous Opening: Rectangular (W 0.27' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 13.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.9948
Total Harmonic Distortion (THDi): 5.65231997856897
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P892901
CATALOG NUMBER: 2MB-SC3-A-UNV-CC93-MID-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P892901

CATALOG NUMBER: 2MB-SC3-A-UNV-CC93-MID-4000K

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	105	101	99	100	98	95	97	94	93	93	91	90	93	91	90	88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	84	81	79	77
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	76	73	69	76	73	69	67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	70	65	61	59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	63	59	55	63	59	55	53
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	58	53	49	47
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	54	48	44	42
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	50	44	40	38
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	40	36	46	40	36	35
10	58	46	39	34	57	46	39	34	45	38	34	44	38	33	43	37	33	43	37	33	32

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16588	16588	16588
5°	16522	16674	16717
10°	16613	16734	16680
15°	16770	16736	16546
20°	16997	16709	16249
25°	17288	16608	15630
30°	17693	16296	14659
35°	18205	15603	13136
40°	18789	14116	10983
45°	19622	11317	7830
50°	20643	6881	4492
55°	21795	3316	2413
60°	22860	2031	1642
65°	22903	1638	1357
70°	19823	1485	1263
75°	13956	1503	1377
80°	8219	1804	1745
85°	3853	2725	2608

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 62.5°
 Luminance: 23184 cd/sqm



TEST NUMBER: P892901
 CATALOG NUMBER: 2MB-SC3-A-UNV-CC93-MID-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.2	4.5
10°-20°	222.7	13.1
20°-30°	337.1	19.8
30°-40°	389.3	22.9
40°-50°	332.9	19.6
50°-60°	181.8	10.7
60°-70°	91.9	5.4
70°-80°	44.6	2.6
80°-90°	15.3	0.9
90°-100°	3.7	0.2
100°-110°	0.6	0.0
110°-120°	0.2	0.0
120°-130°	0.2	0.0
130°-140°	0.3	0.0
140°-150°	0.3	0.0
150°-160°	0.3	0.0
160°-170°	0.2	0.0
170°-180°	0.1	0.0
0°-30°	637.0	37.5
0°-40°	1026.4	60.4
0°-60°	1541.2	90.7
0°-90°	1693.0	99.6
90°-120°	4.5	0.3
90°-150°	5.4	0.3
90°-180°	6.0	0.4
0°-180°	1698.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	810	810	810	810	810	
5°	804	810	811	814	813	77
15°	791	796	790	786	780	224
25°	765	761	735	707	692	354
35°	728	703	624	551	526	456
45°	678	592	391	290	270	524
55°	610	280	93	72	68	544
65°	473	52	34	30	28	458
75°	176	29	19	18	17	195
85°	16	16	12	12	11	25
90°	0	10	7	7	7	1
95°	0	1	3	5	4	0
105°	0	0	0	1	0	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	1	0	0
165°	0	0	1	1	1	0
175°	0	0	1	1	1	0
180°	1	1	1	1	1	



TEST NUMBER: P892901

CATALOG NUMBER: 2MB-SC3-A-UNV-CC93-MID-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	810.1	810.1	810.1	810.1	810.1
2.5°	803.8	809.6	811.7	815.4	813.8
5°	803.8	810.1	811.2	814.3	813.3
7.5°	802.2	808.0	809.6	811.2	809.1
10°	799.0	804.8	804.8	804.8	802.2
12.5°	794.8	801.1	798.0	795.8	793.2
15°	791.1	795.8	789.5	785.8	780.5
17.5°	786.3	790.0	779.5	772.1	765.2
20°	780.0	781.6	766.8	753.1	745.7
22.5°	773.1	771.6	752.5	732.5	722.4
25°	765.2	761.0	735.1	706.6	691.8
27.5°	757.8	748.8	714.0	675.4	660.1
30°	748.3	736.2	689.2	640.6	620.0
32.5°	738.8	720.9	660.1	601.0	578.3
35°	728.3	703.4	624.2	551.3	525.5
37.5°	715.6	681.8	579.3	497.5	470.0
40°	702.9	656.4	528.1	435.2	410.9
42.5°	690.8	627.9	465.3	365.4	341.7
45°	677.6	591.5	390.8	290.5	270.4
47.5°	663.3	541.3	304.7	220.2	203.3
50°	648.0	476.3	216.0	154.2	141.0
52.5°	630.0	386.6	142.6	104.0	95.6
55°	610.5	280.4	92.9	72.3	67.6
57.5°	585.7	182.7	65.5	53.9	50.2
60°	558.2	109.3	49.6	42.8	40.1
62.5°	522.8	70.8	40.1	35.9	32.7
65°	472.7	52.3	33.8	30.1	28.0
67.5°	409.3	43.3	28.5	25.9	23.8
70°	331.1	38.0	24.8	22.7	21.1
72.5°	250.3	33.3	21.7	20.1	19.0
75°	176.4	29.0	19.0	18.5	17.4
77.5°	115.7	25.3	17.4	16.9	16.4
80°	69.7	21.7	15.3	15.3	14.8
82.5°	39.1	19.0	13.7	13.7	12.7
85°	16.4	16.4	11.6	11.6	11.1
87.5°	4.8	12.7	9.5	9.5	8.4
90°	0.0	9.5	7.4	7.4	6.9
92.5°	0.0	5.3	5.3	5.8	5.3
95°	0.0	1.1	3.2	4.8	4.2
97.5°	0.0	0.5	2.1	3.7	3.2
100°	0.0	0.0	1.1	2.6	2.1
102.5°	0.0	0.0	0.5	1.6	1.6
105°	0.0	0.0	0.5	1.1	0.5
107.5°	0.0	0.0	0.5	0.5	0.5
110°	0.0	0.0	0.5	0.5	0.5



TEST NUMBER: P892901

CATALOG NUMBER: 2MB-SC3-A-UNV-CC93-MID-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.5	0.5	0.5
115°	0.0	0.0	0.0	0.5	0.5
117.5°	0.0	0.0	0.0	0.5	0.0
120°	0.0	0.0	0.0	0.5	0.0
122.5°	0.0	0.0	0.0	0.5	0.0
125°	0.0	0.0	0.5	0.5	0.0
127.5°	0.0	0.0	0.5	0.5	0.5
130°	0.0	0.0	0.5	0.5	0.5
132.5°	0.5	0.0	0.5	0.5	0.5
135°	0.5	0.5	0.5	0.5	0.5
137.5°	0.5	0.5	0.5	0.5	0.5
140°	0.5	0.5	0.5	0.5	0.5
142.5°	0.5	0.5	0.5	0.5	0.5
145°	0.5	0.5	0.5	0.5	0.5
147.5°	0.5	0.5	0.5	0.5	0.5
150°	0.5	0.5	0.5	0.5	0.5
152.5°	0.5	0.5	0.5	0.5	0.5
155°	0.5	0.5	0.5	1.1	0.5
157.5°	0.5	0.5	0.5	1.1	0.5
160°	0.5	0.5	0.5	1.1	0.5
162.5°	0.5	0.5	1.1	1.1	1.1
165°	0.5	0.5	1.1	1.1	1.1
167.5°	0.5	0.5	1.1	1.1	1.1
170°	0.5	0.5	1.1	1.1	1.1
172.5°	0.5	0.5	1.1	1.1	1.1
175°	0.5	0.5	1.1	1.1	1.1
177.5°	0.5	0.5	1.1	1.1	1.1
180°	1.1	1.1	1.1	1.1	1.1



TEST NUMBER: P892901
 CATALOG NUMBER: 2MB-SC3-A-UNV-CC93-MID-4000K

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	19.93	21.34	20.30	21.66	21.99	9.05	10.46	9.42	10.79	11.11
	3H	22.71	23.96	23.09	24.30	24.67	10.06	11.31	10.44	11.65	12.02
	4H	23.54	24.71	23.95	25.07	25.46	10.61	11.78	11.02	12.14	12.53
	6H	23.93	25.01	24.35	25.39	25.79	11.31	12.39	11.73	12.77	13.17
	8H	24.01	25.03	24.44	25.43	25.84	11.69	12.71	12.12	13.11	13.52
	12H	24.03	25.01	24.46	25.40	25.84	12.10	13.09	12.54	13.48	13.91
4H	2H	19.75	20.92	20.16	21.28	21.67	9.48	10.66	9.89	11.02	11.41
	3H	22.54	23.50	22.96	23.91	24.32	10.76	11.72	11.18	12.13	12.54
	4H	23.37	24.24	23.81	24.66	25.11	11.49	12.36	11.93	12.78	13.23
	6H	23.85	24.59	24.31	25.05	25.52	12.41	13.15	12.87	13.61	14.08
	8H	23.96	24.66	24.43	25.11	25.59	12.89	13.59	13.36	14.04	14.52
	12H	24.01	24.63	24.50	25.12	25.60	13.44	14.06	13.93	14.55	15.03
8H	4H	23.27	23.97	23.74	24.42	24.90	11.93	12.63	12.41	13.08	13.56
	6H	23.74	24.32	24.25	24.82	25.30	13.05	13.62	13.55	14.13	14.61
	8H	23.87	24.39	24.40	24.91	25.41	13.69	14.21	14.22	14.73	15.23
	12H	23.97	24.43	24.49	24.93	25.51	14.43	14.89	14.95	15.39	15.97
12H	4H	23.23	23.85	23.72	24.34	24.82	12.10	12.72	12.59	13.21	13.69
	6H	23.69	24.21	24.22	24.73	25.23	13.26	13.78	13.79	14.30	14.80
	8H	23.85	24.31	24.37	24.81	25.39	14.00	14.46	14.52	14.96	15.53