

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: P892930

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892930
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-HI-3500K
Description: Selectable 2FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS NO UPLIGHT, 90C
3500K CCT, HI lumen setting
Light Source: -
Ballast/Driver: -

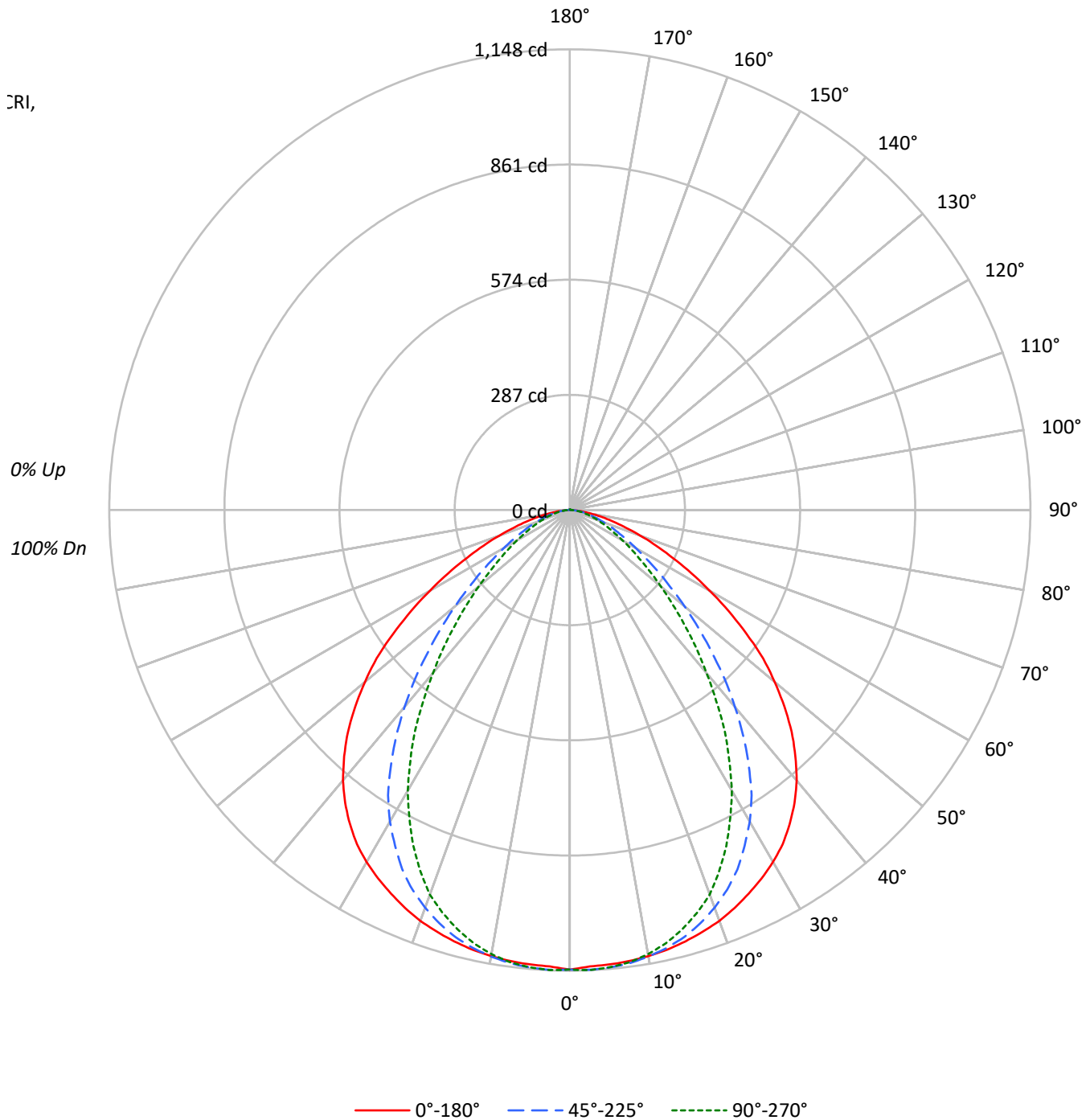
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2335.0 lumens
Efficiency: N/A
Efficacy: 111.2 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): 21
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 5.39961257980444
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P892930
CATALOG NUMBER: 2MB-SC3-AOL-UNV-CC93-HI-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P892930

CATALOG NUMBER: 2MB-SC3-AOL-UNV-CC93-HI-3500K

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°	23452	23452	23452
5°	23367	23525	23508
10°	23475	23491	23362
15°	23590	23359	22933
20°	23741	22983	22222
25°	23829	22324	20854
30°	23949	21202	19097
35°	23887	19435	16841
40°	23515	17118	14159
45°	22648	14465	11682
50°	21238	11889	9423
55°	19185	9650	7575
60°	16520	7769	6278
65°	13731	6415	5213
70°	11267	5376	4448
75°	8948	4597	3861
80°	6757	3927	3467
85°	4558	3642	3266

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 22648 cd/sqm



TEST NUMBER: P892930
 CATALOG NUMBER: 2MB-SC3-AOL-UNV-CC93-HI-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.7	4.7
10°-20°	310.0	13.3
20°-30°	454.0	19.4
30°-40°	495.4	21.2
40°-50°	420.0	18.0
50°-60°	285.5	12.2
60°-70°	161.3	6.9
70°-80°	73.6	3.2
80°-90°	19.2	0.8
90°-100°	2.5	0.1
100°-110°	1.5	0.1
110°-120°	0.8	0.0
120°-130°	0.7	0.0
130°-140°	0.6	0.0
140°-150°	0.5	0.0
150°-160°	0.4	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-30°	872.7	37.4
0°-40°	1368.1	58.6
0°-60°	2073.6	88.8
0°-90°	2327.7	99.7
90°-120°	4.7	0.2
90°-150°	6.5	0.3
90°-180°	7.0	0.3
0°-180°	2335.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1145	1145	1145	1145	1145	
5°	1137	1143	1144	1147	1144	108
15°	1113	1112	1102	1090	1082	314
25°	1055	1037	988	943	923	487
35°	956	894	778	696	674	597
45°	782	660	500	424	403	601
55°	537	397	270	225	212	480
65°	283	201	132	113	108	285
75°	113	83	58	51	49	123
85°	19	18	16	15	14	24
90°	0	2	3	4	4	1
95°	0	1	2	4	4	0
105°	0	1	2	2	2	0
115°	0	0	1	2	2	0
125°	0	0	1	2	2	0
135°	1	1	1	1	1	1
145°	1	1	1	1	1	1
155°	1	1	1	1	1	0
165°	1	1	1	2	2	0
175°	1	1	2	2	2	0
180°	2	2	2	2	2	



TEST NUMBER: P892930

CATALOG NUMBER: 2MB-SC3-AOL-UNV-CC93-HI-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1145.3	1145.3	1145.3	1145.3	1145.3
2.5°	1138.3	1144.5	1146.8	1149.9	1147.6
5°	1136.8	1143.0	1144.5	1146.8	1143.7
7.5°	1133.7	1139.1	1139.1	1139.1	1136.8
10°	1129.0	1132.9	1129.8	1126.7	1123.6
12.5°	1122.0	1123.6	1117.4	1112.0	1105.8
15°	1112.8	1112.0	1101.9	1089.5	1081.8
17.5°	1101.9	1098.8	1080.2	1064.0	1053.1
20°	1089.5	1081.8	1054.7	1029.1	1019.8
22.5°	1073.3	1062.4	1024.5	988.9	973.4
25°	1054.7	1036.9	988.1	943.2	923.0
27.5°	1035.3	1009.0	943.2	887.4	865.7
30°	1012.9	976.5	896.7	832.4	807.7
32.5°	987.3	940.8	843.3	765.8	739.5
35°	955.6	894.4	777.5	696.2	673.7
37.5°	919.9	844.8	710.9	626.5	599.4
40°	879.7	788.3	640.4	556.0	529.7
42.5°	832.4	727.9	570.7	488.6	466.2
45°	782.1	660.5	499.5	424.3	403.4
47.5°	725.6	593.9	434.4	363.2	346.9
50°	666.7	527.3	373.2	312.1	295.8
52.5°	607.1	460.7	316.7	264.8	250.9
55°	537.4	397.2	270.3	224.6	212.2
57.5°	469.3	340.7	226.1	188.2	180.4
60°	403.4	286.5	189.7	158.7	153.3
62.5°	342.3	240.1	159.5	134.0	127.0
65°	283.4	201.3	132.4	113.1	107.6
67.5°	233.1	164.2	110.7	93.7	89.1
70°	188.2	132.4	89.8	76.7	74.3
72.5°	146.4	106.1	73.6	63.5	61.2
75°	113.1	82.9	58.1	51.1	48.8
77.5°	82.9	61.9	44.9	39.5	37.9
80°	57.3	44.1	33.3	30.2	29.4
82.5°	36.4	28.7	24.0	21.7	21.7
85°	19.4	17.8	15.5	14.7	13.9
87.5°	7.7	8.5	8.5	8.5	7.7
90°	0.0	2.3	3.1	3.9	3.9
92.5°	0.0	1.5	3.1	3.9	3.9
95°	0.0	0.8	2.3	3.9	3.9
97.5°	0.0	0.8	2.3	3.1	3.1
100°	0.0	0.8	1.5	3.1	3.1
102.5°	0.0	0.8	1.5	2.3	3.1
105°	0.0	0.8	1.5	2.3	2.3
107.5°	0.0	0.0	1.5	2.3	2.3
110°	0.0	0.0	0.8	1.5	2.3



TEST NUMBER: P892930
CATALOG NUMBER: 2MB-SC3-AOL-UNV-CC93-HI-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.8	1.5	2.3
115°	0.0	0.0	0.8	1.5	1.5
117.5°	0.0	0.0	0.8	1.5	1.5
120°	0.0	0.0	0.8	1.5	1.5
122.5°	0.0	0.0	0.8	1.5	1.5
125°	0.0	0.0	0.8	1.5	1.5
127.5°	0.0	0.8	0.8	0.8	1.5
130°	0.0	0.8	0.8	0.8	1.5
132.5°	0.8	0.8	0.8	0.8	0.8
135°	0.8	0.8	0.8	0.8	0.8
137.5°	0.8	0.8	0.8	0.8	0.8
140°	0.8	0.8	0.8	0.8	0.8
142.5°	0.8	0.8	0.8	0.8	0.8
145°	0.8	0.8	0.8	0.8	0.8
147.5°	0.8	0.8	0.8	0.8	0.8
150°	0.8	0.8	0.8	0.8	0.8
152.5°	0.8	0.8	0.8	0.8	0.8
155°	0.8	0.8	0.8	0.8	0.8
157.5°	0.8	0.8	0.8	0.8	0.8
160°	0.8	0.8	0.8	0.8	1.5
162.5°	0.8	0.8	0.8	1.5	1.5
165°	0.8	0.8	0.8	1.5	1.5
167.5°	0.8	0.8	0.8	1.5	1.5
170°	0.8	0.8	0.8	1.5	1.5
172.5°	0.8	0.8	0.8	1.5	1.5
175°	0.8	0.8	1.5	1.5	1.5
177.5°	0.8	0.8	1.5	1.5	1.5
180°	1.5	1.5	1.5	1.5	1.5



TEST NUMBER: P892930
 CATALOG NUMBER: 2MB-SC3-AOL-UNV-CC93-HI-3500K

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	21.30	22.74	21.67	23.06	23.38	16.66	18.10	17.03	18.42	18.75
	3H	22.55	23.84	22.93	24.17	24.54	17.70	18.99	18.08	19.32	19.69
	4H	22.95	24.15	23.35	24.51	24.90	18.07	19.27	18.48	19.63	20.02
	6H	23.19	24.30	23.61	24.67	25.07	18.33	19.44	18.75	19.81	20.21
	8H	23.24	24.30	23.68	24.69	25.10	18.42	19.48	18.85	19.87	20.28
	12H	23.26	24.27	23.70	24.66	25.10	18.49	19.49	18.92	19.88	20.32
4H	2H	21.31	22.51	21.72	22.87	23.26	17.23	18.44	17.64	18.79	19.18
	3H	22.72	23.71	23.14	24.12	24.53	18.46	19.45	18.88	19.86	20.27
	4H	23.21	24.10	23.65	24.52	24.97	18.92	19.81	19.36	20.23	20.68
	6H	23.55	24.32	24.02	24.77	25.24	19.28	20.05	19.74	20.50	20.97
	8H	23.64	24.36	24.11	24.81	25.29	19.40	20.12	19.87	20.57	21.05
	12H	23.69	24.33	24.18	24.81	25.29	19.50	20.14	19.99	20.63	21.11
8H	4H	23.20	23.92	23.67	24.37	24.85	19.21	19.93	19.68	20.38	20.86
	6H	23.60	24.19	24.10	24.69	25.17	19.66	20.25	20.16	20.75	21.23
	8H	23.72	24.25	24.24	24.77	25.26	19.83	20.37	20.36	20.88	21.38
	12H	23.81	24.28	24.33	24.78	25.35	20.00	20.47	20.52	20.97	21.54
12H	4H	23.18	23.82	23.67	24.30	24.78	19.24	19.88	19.73	20.37	20.85
	6H	23.57	24.10	24.09	24.62	25.11	19.71	20.24	20.23	20.76	21.25
	8H	23.72	24.19	24.24	24.69	25.27	19.94	20.41	20.45	20.91	21.48