

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: P892932

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892932
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-5000K
Description: Selectable 2FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS NO UPLIGHT, 900
5000K CCT, HI lumen setting
Light Source: -
Ballast/Driver: -

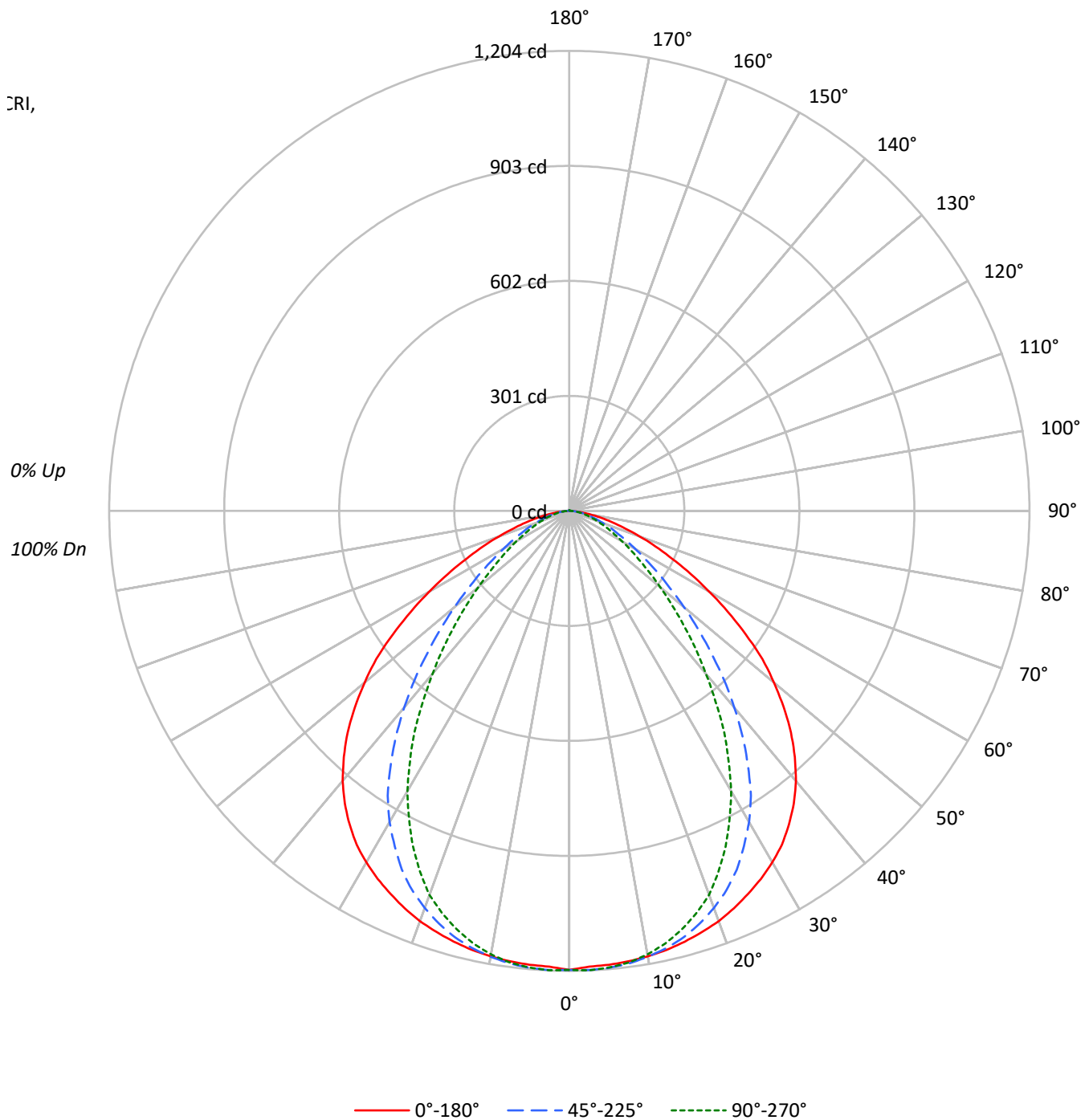
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2448.9 lumens
Efficiency: N/A
Efficacy: 116.6 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: P892932
CATALOG NUMBER: 2MB-SC3-AOL-UNV-CC93-HI-5000K

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°	24596	24596	24596
5°	24507	24674	24657
10°	24620	24639	24504
15°	24741	24499	24052
20°	24900	24105	23307
25°	24993	23413	21873
30°	25117	22237	20029
35°	25052	20383	17663
40°	24661	17955	14849
45°	23754	15168	12252
50°	22277	12472	9882
55°	20120	10117	7943
60°	17327	8150	6585
65°	14405	6730	5470
70°	11818	5640	4670
75°	9383	4818	4051
80°	7087	4115	3644
85°	4769	3806	3430

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 23754 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.0	4.7
10°-20°	325.1	13.3
20°-30°	476.1	19.4
30°-40°	519.6	21.2
40°-50°	440.6	18.0
50°-60°	299.4	12.2
60°-70°	169.2	6.9
70°-80°	77.2	3.2
80°-90°	20.1	0.8
90°-100°	2.6	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°	915.3	37.4
0°-40°	1434.8	58.6
0°-60°	2174.8	88.8
0°-90°	2441.4	99.7
90°-120°	4.9	0.2
90°-150°	6.8	0.3
90°-180°	8.0	0.3
0°-180°	2448.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1201	1201	1201	1201	1201	
5°	1192	1199	1200	1203	1200	114
15°	1167	1166	1156	1143	1135	330
25°	1106	1088	1036	989	968	510
35°	1002	938	815	730	707	626
45°	820	693	524	445	423	630
55°	564	417	283	236	222	503
65°	297	211	139	119	113	299
75°	119	87	61	54	51	128
85°	20	19	16	15	15	25
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1201.2	1201.2	1201.2	1201.2	1201.2
2.5°	1193.9	1200.4	1202.8	1206.1	1203.6
5°	1192.3	1198.8	1200.4	1202.8	1199.6
7.5°	1189.0	1194.7	1194.7	1194.7	1192.3
10°	1184.1	1188.2	1185.0	1181.7	1178.5
12.5°	1176.8	1178.5	1172.0	1166.3	1159.8
15°	1167.1	1166.3	1155.7	1142.7	1134.6
17.5°	1155.7	1152.5	1133.0	1115.9	1104.5
20°	1142.7	1134.6	1106.2	1079.4	1069.6
22.5°	1125.7	1114.3	1074.5	1037.1	1020.9
25°	1106.2	1087.5	1036.3	989.2	968.1
27.5°	1085.9	1058.3	989.2	930.7	908.0
30°	1062.3	1024.1	940.5	873.1	847.1
32.5°	1035.5	986.8	884.4	803.2	775.6
35°	1002.2	938.1	815.4	730.1	706.6
37.5°	964.9	886.1	745.6	657.0	628.6
40°	922.6	826.8	671.7	583.1	555.5
42.5°	873.1	763.4	598.6	512.5	488.9
45°	820.3	692.8	523.8	445.1	423.1
47.5°	761.0	622.9	455.6	380.9	363.9
50°	699.3	553.1	391.5	327.3	310.2
52.5°	636.7	483.2	332.2	277.8	263.1
55°	563.6	416.6	283.4	235.5	222.5
57.5°	492.2	357.4	237.2	197.4	189.2
60°	423.1	300.5	199.0	166.5	160.8
62.5°	359.0	251.8	167.3	140.5	133.2
65°	297.3	211.2	138.9	118.6	112.9
67.5°	244.5	172.2	116.1	98.3	93.4
70°	197.4	138.9	94.2	80.4	78.0
72.5°	153.5	111.3	77.2	66.6	64.2
75°	118.6	86.9	60.9	53.6	51.2
77.5°	86.9	65.0	47.1	41.4	39.8
80°	60.1	46.3	34.9	31.7	30.9
82.5°	38.2	30.1	25.2	22.7	22.7
85°	20.3	18.7	16.2	15.4	14.6
87.5°	8.1	8.9	8.9	8.9	8.1
90°	0.0	2.4	3.2	4.1	4.1
92.5°	0.0	1.6	3.2	4.1	4.1
95°	0.0	0.8	2.4	4.1	4.1
97.5°	0.0	0.8	2.4	3.2	3.2
100°	0.0	0.8	1.6	3.2	3.2
102.5°	0.0	0.8	1.6	2.4	3.2
105°	0.0	0.8	1.6	2.4	2.4
107.5°	0.0	0.0	1.6	2.4	2.4
110°	0.0	0.0	0.8	1.6	2.4



TEST NUMBER: P892932

CATALOG NUMBER: 2MB-SC3-AOL-UNV-CC93-HI-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.8	1.6	2.4
115°	0.0	0.0	0.8	1.6	1.6
117.5°	0.0	0.0	0.8	1.6	1.6
120°	0.0	0.0	0.8	1.6	1.6
122.5°	0.0	0.0	0.8	1.6	1.6
125°	0.0	0.0	0.8	1.6	1.6
127.5°	0.0	0.8	0.8	0.8	1.6
130°	0.0	0.8	0.8	0.8	1.6
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	1.6
162.5°	0.8	0.8	0.8	1.6	1.6
165°	0.8	0.8	0.8	1.6	1.6
167.5°	0.8	0.8	0.8	1.6	1.6
170°	0.8	0.8	0.8	1.6	1.6
172.5°	0.8	0.8	0.8	1.6	1.6
175°	0.8	0.8	1.6	1.6	1.6
177.5°	0.8	0.8	1.6	1.6	1.6
180°	1.6	1.6	1.6	1.6	1.6



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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	21.46	22.91	21.83	23.23	23.55	16.83	18.27	17.20	18.59	18.91
	3H	22.72	24.00	23.10	24.34	24.71	17.87	19.15	18.25	19.49	19.86
	4H	23.11	24.32	23.52	24.67	25.06	18.24	19.44	18.64	19.80	20.18
	6H	23.35	24.46	23.77	24.84	25.24	18.50	19.61	18.92	19.98	20.38
	8H	23.41	24.46	23.84	24.86	25.27	18.59	19.64	19.02	20.04	20.45
	12H	23.43	24.44	23.86	24.83	25.26	18.65	19.66	19.09	20.05	20.49
4H	2H	21.48	22.68	21.88	23.04	23.43	17.40	18.60	17.81	18.96	19.35
	3H	22.89	23.88	23.30	24.29	24.70	18.63	19.62	19.04	20.03	20.44
	4H	23.38	24.27	23.82	24.69	25.14	19.09	19.98	19.53	20.40	20.85
	6H	23.72	24.49	24.19	24.94	25.41	19.44	20.21	19.91	20.66	21.13
	8H	23.81	24.53	24.28	24.98	25.45	19.57	20.29	20.04	20.74	21.21
	12H	23.85	24.49	24.34	24.98	25.46	19.67	20.31	20.16	20.79	21.27
8H	4H	23.37	24.09	23.84	24.54	25.02	19.38	20.10	19.85	20.55	21.02
	6H	23.76	24.35	24.27	24.85	25.34	19.82	20.41	20.33	20.91	21.40
	8H	23.88	24.42	24.41	24.93	25.43	20.00	20.53	20.52	21.05	21.55
	12H	23.98	24.45	24.49	24.95	25.52	20.17	20.64	20.68	21.13	21.71
12H	4H	23.34	23.98	23.83	24.47	24.95	19.41	20.05	19.90	20.53	21.01
	6H	23.73	24.27	24.26	24.78	25.28	19.87	20.41	20.39	20.92	21.42
	8H	23.89	24.36	24.41	24.86	25.43	20.10	20.57	20.62	21.07	21.65