

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: P892928

Luminaire Tested: 2MB-SC3-AOL-UNV-CC83-MID-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892928
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-CC83-MID-4000K
Description: Selectable 2FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS NO UPLIGHT, 800
4000K CCT, MID lumen setting
Light Source: -
Ballast/Driver: -

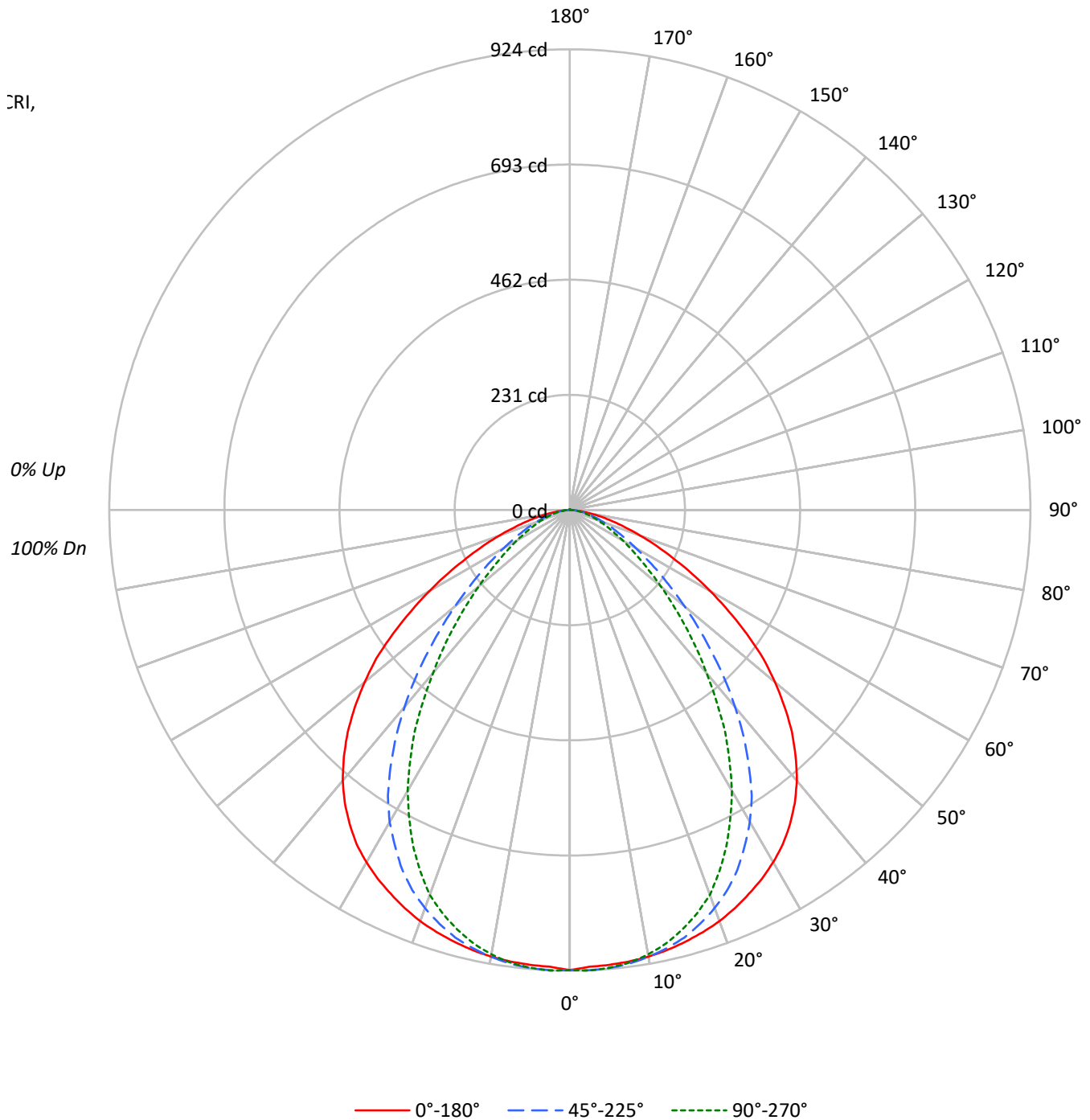
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1880.9 lumens
Efficiency: N/A
Efficacy: 135.3 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): 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

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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	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°	18892	18892	18892
5°	18822	18951	18939
10°	18911	18923	18819
15°	19003	18818	18473
20°	19126	18513	17901
25°	19195	17984	16800
30°	19291	17081	15383
35°	19243	15656	13566
40°	18941	13790	11406
45°	18244	11653	9411
50°	17110	9579	7591
55°	15454	7772	6101
60°	13310	6258	5058
65°	11061	5170	4201
70°	9076	4335	3586
75°	7207	3703	3109
80°	5448	3160	2795
85°	3665	2937	2631

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18244 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.6	4.7
10°-20°	249.7	13.3
20°-30°	365.7	19.4
30°-40°	399.1	21.2
40°-50°	338.4	18.0
50°-60°	230.0	12.2
60°-70°	129.9	6.9
70°-80°	59.3	3.2
80°-90°	15.5	0.8
90°-100°	2.0	0.1
100°-110°	1.2	0.1
110°-120°	0.6	0.0
120°-130°	0.5	0.0
130°-140°	0.5	0.0
140°-150°	0.4	0.0
150°-160°	0.3	0.0
160°-170°	0.2	0.0
170°-180°	0.1	0.0
0°-30°	703.0	37.4
0°-40°	1102.1	58.6
0°-60°	1670.4	88.8
0°-90°	1875.1	99.7
90°-120°	3.8	0.2
90°-150°	5.2	0.3
90°-180°	6.0	0.3
0°-180°	1880.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	923	923	923	923	923	
5°	916	921	922	924	921	87
15°	896	896	888	878	871	253
25°	850	835	796	760	744	392
35°	770	720	626	561	543	481
45°	630	532	402	342	325	484
55°	433	320	218	181	171	386
65°	228	162	107	91	87	230
75°	91	67	47	41	39	99
85°	16	14	12	12	11	19
90°	0	2	2	3	3	1
95°	0	1	2	3	3	0
105°	0	1	1	2	2	0
115°	0	0	1	1	1	0
125°	0	0	1	1	1	0
135°	1	1	1	1	1	0
145°	1	1	1	1	1	0
155°	1	1	1	1	1	0
165°	1	1	1	1	1	0
175°	1	1	1	1	1	0
180°	1	1	1	1	1	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	922.6	922.6	922.6	922.6	922.6
2.5°	917.0	922.0	923.8	926.3	924.5
5°	915.7	920.7	922.0	923.8	921.4
7.5°	913.2	917.6	917.6	917.6	915.7
10°	909.5	912.6	910.1	907.6	905.1
12.5°	903.9	905.1	900.1	895.8	890.8
15°	896.4	895.8	887.7	877.7	871.4
17.5°	887.7	885.2	870.2	857.1	848.4
20°	877.7	871.4	849.6	829.0	821.5
22.5°	864.6	855.9	825.3	796.6	784.1
25°	849.6	835.3	796.0	759.8	743.6
27.5°	834.0	812.8	759.8	714.9	697.4
30°	815.9	786.6	722.4	670.6	650.6
32.5°	795.3	757.9	679.3	616.9	595.7
35°	769.8	720.5	626.3	560.8	542.7
37.5°	741.1	680.6	572.6	504.7	482.8
40°	708.6	635.0	515.9	447.9	426.7
42.5°	670.6	586.4	459.7	393.6	375.5
45°	630.0	532.1	402.4	341.8	325.0
47.5°	584.5	478.5	350.0	292.6	279.5
50°	537.1	424.8	300.7	251.4	238.3
52.5°	489.1	371.2	255.1	213.3	202.1
55°	432.9	320.0	217.7	180.9	170.9
57.5°	378.0	274.5	182.1	151.6	145.3
60°	325.0	230.8	152.8	127.9	123.5
62.5°	275.7	193.4	128.5	107.9	102.3
65°	228.3	162.2	106.7	91.1	86.7
67.5°	187.8	132.2	89.2	75.5	71.7
70°	151.6	106.7	72.4	61.8	59.9
72.5°	117.9	85.5	59.3	51.2	49.3
75°	91.1	66.7	46.8	41.2	39.3
77.5°	66.7	49.9	36.2	31.8	30.6
80°	46.2	35.6	26.8	24.3	23.7
82.5°	29.3	23.1	19.3	17.5	17.5
85°	15.6	14.3	12.5	11.9	11.2
87.5°	6.2	6.9	6.9	6.9	6.2
90°	0.0	1.9	2.5	3.1	3.1
92.5°	0.0	1.2	2.5	3.1	3.1
95°	0.0	0.6	1.9	3.1	3.1
97.5°	0.0	0.6	1.9	2.5	2.5
100°	0.0	0.6	1.2	2.5	2.5
102.5°	0.0	0.6	1.2	1.9	2.5
105°	0.0	0.6	1.2	1.9	1.9
107.5°	0.0	0.0	1.2	1.9	1.9
110°	0.0	0.0	0.6	1.2	1.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.6	1.2	1.9
115°	0.0	0.0	0.6	1.2	1.2
117.5°	0.0	0.0	0.6	1.2	1.2
120°	0.0	0.0	0.6	1.2	1.2
122.5°	0.0	0.0	0.6	1.2	1.2
125°	0.0	0.0	0.6	1.2	1.2
127.5°	0.0	0.6	0.6	0.6	1.2
130°	0.0	0.6	0.6	0.6	1.2
132.5°	0.6	0.6	0.6	0.6	0.6
135°	0.6	0.6	0.6	0.6	0.6
137.5°	0.6	0.6	0.6	0.6	0.6
140°	0.6	0.6	0.6	0.6	0.6
142.5°	0.6	0.6	0.6	0.6	0.6
145°	0.6	0.6	0.6	0.6	0.6
147.5°	0.6	0.6	0.6	0.6	0.6
150°	0.6	0.6	0.6	0.6	0.6
152.5°	0.6	0.6	0.6	0.6	0.6
155°	0.6	0.6	0.6	0.6	0.6
157.5°	0.6	0.6	0.6	0.6	0.6
160°	0.6	0.6	0.6	0.6	1.2
162.5°	0.6	0.6	0.6	1.2	1.2
165°	0.6	0.6	0.6	1.2	1.2
167.5°	0.6	0.6	0.6	1.2	1.2
170°	0.6	0.6	0.6	1.2	1.2
172.5°	0.6	0.6	0.6	1.2	1.2
175°	0.6	0.6	1.2	1.2	1.2
177.5°	0.6	0.6	1.2	1.2	1.2
180°	1.2	1.2	1.2	1.2	1.2



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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	20.55	21.99	20.92	22.31	22.63	15.91	17.35	16.28	17.67	18.00
	3H	21.80	23.09	22.18	23.42	23.79	16.95	18.24	17.33	18.57	18.94
	4H	22.20	23.40	22.60	23.76	24.15	17.32	18.52	17.72	18.88	19.27
	6H	22.44	23.55	22.86	23.92	24.32	17.58	18.69	18.00	19.06	19.46
	8H	22.49	23.55	22.92	23.94	24.35	17.67	18.73	18.10	19.12	19.53
	12H	22.51	23.52	22.95	23.91	24.34	17.74	18.74	18.17	19.13	19.57
4H	2H	20.56	21.76	20.97	22.12	22.51	16.48	17.69	16.89	18.04	18.43
	3H	21.97	22.96	22.39	23.37	23.78	17.71	18.70	18.13	19.11	19.52
	4H	22.46	23.35	22.90	23.77	24.22	18.17	19.06	18.61	19.48	19.93
	6H	22.80	23.57	23.27	24.02	24.49	18.53	19.30	18.99	19.75	20.22
	8H	22.89	23.61	23.36	24.06	24.54	18.65	19.37	19.12	19.82	20.30
	12H	22.94	23.58	23.43	24.06	24.54	18.75	19.39	19.24	19.88	20.36
8H	4H	22.45	23.17	22.92	23.62	24.10	18.46	19.18	18.93	19.63	20.11
	6H	22.85	23.44	23.35	23.94	24.42	18.91	19.50	19.41	20.00	20.48
	8H	22.97	23.50	23.49	24.02	24.51	19.09	19.62	19.61	20.13	20.63
	12H	23.06	23.53	23.58	24.03	24.60	19.25	19.72	19.77	20.22	20.79
12H	4H	22.43	23.07	22.92	23.55	24.03	18.49	19.13	18.98	19.62	20.10
	6H	22.82	23.35	23.34	23.87	24.36	18.96	19.49	19.48	20.01	20.50
	8H	22.97	23.44	23.49	23.94	24.52	19.19	19.66	19.70	20.16	20.73