

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: P895789

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

Issue Date: 11/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P895789
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/19/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-SC3-ACL-UNV-CC93-MID-4000K
Description: Selectable 2FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS, 90CRI, 4000K CC
MID lumen setting
Light Source: -
Ballast/Driver: -

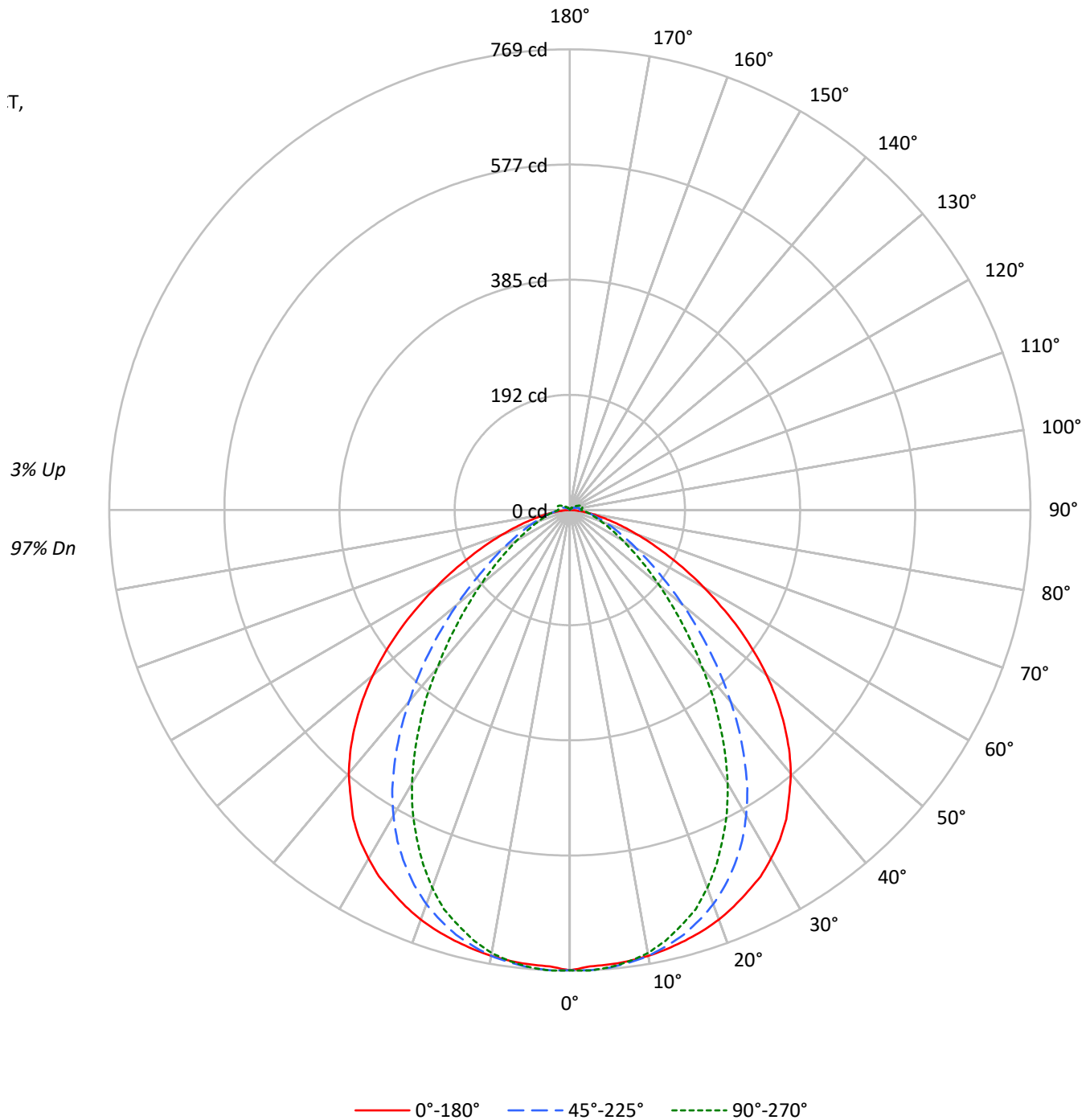
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1601.0 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.07 / 1.17
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 1.98' x H: 0.08')
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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	99	97
1	110	105	102	98	107	103	100	97	98	96	93	94	92	90	90	88	87	87	87	87	84
2	101	94	88	83	98	92	86	82	88	83	80	84	81	77	81	78	75	75	75	75	73
3	93	84	77	71	91	82	76	70	79	73	69	76	71	67	73	69	66	66	66	66	64
4	86	76	68	62	84	74	67	61	71	65	60	69	63	59	66	62	58	58	58	58	56
5	80	68	60	54	78	67	60	54	65	58	53	63	57	52	61	56	52	52	52	52	50
6	74	62	54	48	72	61	54	48	59	52	47	57	51	47	56	50	46	46	46	46	44
7	69	57	49	43	68	56	49	43	54	48	43	53	47	42	51	46	42	42	42	42	40
8	65	52	45	39	63	52	44	39	50	43	39	49	43	38	47	42	38	38	38	38	36
9	61	48	41	36	59	48	40	35	46	40	35	45	39	35	44	39	35	35	35	35	33
10	57	45	38	33	56	44	37	32	43	37	32	42	36	32	41	36	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15734	15734	15734
5°	15595	15422	15328
10°	15597	15046	14795
15°	15598	14578	14045
20°	15618	13978	13127
25°	15575	13189	11917
30°	15505	12156	10550
35°	15297	10808	8941
40°	14820	9219	7286
45°	14072	7587	5774
50°	13022	6032	4506
55°	11594	4688	3489
60°	9878	3660	2733
65°	8075	2908	2173
70°	6402	2354	1782
75°	4943	1918	1560
80°	3522	1618	1413
85°	2015	1407	1271

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14072 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.8	4.5
10°-20°	206.5	12.9
20°-30°	300.1	18.7
30°-40°	324.4	20.3
40°-50°	273.7	17.1
50°-60°	187.5	11.7
60°-70°	109.3	6.8
70°-80°	55.8	3.5
80°-90°	24.0	1.5
90°-100°	14.6	0.9
100°-110°	13.1	0.8
110°-120°	8.9	0.6
120°-130°	5.0	0.3
130°-140°	2.7	0.2
140°-150°	1.4	0.1
150°-160°	0.7	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-30°	579.4	36.2
0°-40°	903.8	56.5
0°-60°	1365.0	85.3
0°-90°	1554.2	97.1
90°-120°	36.5	2.3
90°-150°	45.7	2.9
90°-180°	47.0	2.9
0°-180°	1601.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	768	768	768	768	768	
5°	762	766	767	768	766	73
15°	744	744	734	725	718	210
25°	703	689	652	620	605	324
35°	630	589	508	454	436	393
45°	506	428	328	277	262	389
55°	344	261	178	149	142	307
65°	182	134	92	79	75	182
75°	72	59	47	44	43	78
85°	13	17	23	25	25	16
90°	0	8	17	19	19	1
95°	0	7	16	20	20	0
105°	0	4	14	21	22	0
115°	0	3	9	15	17	0
125°	0	2	5	9	11	0
135°	0	2	4	5	6	0
145°	0	1	3	3	4	0
155°	0	1	2	2	3	0
165°	0	0	1	2	2	0
175°	0	0	1	1	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	768.4	768.4	768.4	768.4	768.4
2.5°	762.5	767.3	768.9	771.0	769.4
5°	761.5	766.2	766.8	768.4	766.2
7.5°	759.4	763.1	762.0	762.0	759.9
10°	755.7	757.8	755.7	753.0	750.9
12.5°	750.4	752.0	745.6	741.9	736.7
15°	744.1	743.5	734.0	725.0	718.2
17.5°	736.7	733.0	718.2	704.5	698.6
20°	727.7	720.8	700.2	680.2	671.2
22.5°	716.1	706.6	678.0	652.2	640.0
25°	702.9	689.1	652.2	620.0	604.6
27.5°	689.7	669.1	623.1	583.0	568.2
30°	671.7	645.8	588.8	543.4	527.0
32.5°	652.7	620.0	551.8	499.0	482.7
35°	630.0	589.3	508.5	454.1	436.2
37.5°	601.5	553.4	464.7	407.7	392.4
40°	574.0	514.3	417.7	361.2	344.3
42.5°	541.8	472.1	372.3	317.4	302.1
45°	506.4	428.3	327.9	277.2	261.9
47.5°	468.9	386.6	285.7	238.7	226.5
50°	429.3	343.8	246.1	205.4	194.3
52.5°	387.1	301.0	209.6	175.8	165.8
55°	344.3	260.9	178.5	149.4	141.5
57.5°	299.4	222.3	152.1	127.3	119.9
60°	258.8	190.1	128.3	108.8	103.0
62.5°	218.6	160.5	109.3	92.4	87.7
65°	181.7	133.6	92.4	78.7	75.0
67.5°	149.4	112.0	79.2	67.6	65.0
70°	119.3	91.4	66.5	58.1	55.4
72.5°	94.0	73.9	56.0	50.2	48.6
75°	72.3	59.1	47.0	43.8	42.8
77.5°	52.8	45.4	39.6	38.0	37.5
80°	37.0	34.3	33.3	33.3	33.3
82.5°	23.2	25.3	28.0	29.0	29.0
85°	12.7	17.4	23.2	24.8	24.8
87.5°	5.3	12.1	19.5	21.1	20.6
90°	0.5	7.9	16.9	19.0	19.0
92.5°	0.0	7.9	16.9	19.0	19.0
95°	0.0	7.4	16.4	19.5	20.1
97.5°	0.0	6.9	16.4	20.1	20.6
100°	0.5	6.3	16.4	20.6	21.1
102.5°	0.0	5.3	15.3	20.6	21.7
105°	0.0	4.2	14.3	20.6	21.7
107.5°	0.0	3.2	13.2	19.5	21.1
110°	0.0	3.2	12.1	18.5	20.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	2.6	10.6	16.9	19.0
115°	0.0	2.6	9.0	15.3	17.4
117.5°	0.0	2.1	7.9	13.7	15.3
120°	0.0	2.1	6.9	12.1	13.7
122.5°	0.0	2.1	6.3	10.6	12.1
125°	0.0	1.6	5.3	9.0	10.6
127.5°	0.5	1.6	4.8	7.9	9.5
130°	0.5	1.6	4.2	6.9	8.4
132.5°	0.5	1.6	3.7	6.3	7.4
135°	0.5	1.6	3.7	5.3	6.3
137.5°	0.5	1.6	3.2	4.8	5.3
140°	0.5	1.6	2.6	4.2	4.8
142.5°	0.5	1.1	2.6	3.7	4.2
145°	0.5	1.1	2.6	3.2	3.7
147.5°	0.5	1.1	2.1	3.2	3.2
150°	0.5	1.1	2.1	2.6	3.2
152.5°	0.5	1.1	1.6	2.6	2.6
155°	0.5	1.1	1.6	2.1	2.6
157.5°	0.5	1.1	1.6	2.1	2.1
160°	0.5	1.1	1.1	1.6	2.1
162.5°	0.5	0.5	1.1	1.6	1.6
165°	0.5	0.5	1.1	1.6	1.6
167.5°	0.5	0.5	1.1	1.1	1.6
170°	0.5	0.5	1.1	1.1	1.1
172.5°	0.5	0.5	1.1	1.1	0.5
175°	0.5	0.5	1.1	1.1	0.5
177.5°	0.5	0.5	1.1	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	18.11	19.51	18.52	19.88	20.27	14.43	15.83	14.85	16.21	16.60
	3H	19.17	20.43	19.60	20.82	21.25	15.61	16.86	16.04	17.26	17.69
	4H	19.46	20.64	19.91	21.05	21.50	16.14	17.31	16.59	17.72	18.17
	6H	19.60	20.68	20.06	21.11	21.57	16.68	17.76	17.14	18.19	18.65
	8H	19.61	20.64	20.09	21.09	21.56	16.95	17.98	17.43	18.43	18.90
	12H	19.60	20.58	20.08	21.03	21.53	17.25	18.23	17.73	18.67	19.17
4H	2H	18.14	19.31	18.59	19.72	20.17	14.89	16.06	15.34	16.47	16.92
	3H	19.36	20.33	19.82	20.79	21.26	16.25	17.22	16.71	17.68	18.16
	4H	19.74	20.61	20.22	21.09	21.60	16.88	17.76	17.37	18.23	18.74
	6H	19.96	20.72	20.47	21.22	21.75	17.55	18.31	18.06	18.81	19.34
	8H	19.99	20.70	20.51	21.20	21.74	17.90	18.61	18.41	19.11	19.64
	12H	20.00	20.63	20.53	21.16	21.70	18.28	18.91	18.81	19.44	19.98
8H	4H	19.76	20.47	20.27	20.97	21.50	17.10	17.81	17.61	18.31	18.85
	6H	20.03	20.62	20.58	21.17	21.71	17.89	18.47	18.43	19.02	19.56
	8H	20.10	20.63	20.66	21.19	21.75	18.32	18.85	18.89	19.41	19.97
	12H	20.14	20.61	20.70	21.15	21.78	18.82	19.29	19.38	19.84	20.47
12H	4H	19.75	20.38	20.28	20.91	21.45	17.11	17.74	17.64	18.27	18.81
	6H	20.03	20.56	20.59	21.12	21.67	17.92	18.45	18.48	19.01	19.56
	8H	20.13	20.60	20.69	21.15	21.78	18.41	18.88	18.97	19.43	20.06