

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: P892938

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892938
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-MID-5000K
Description: Selectable 2FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS NO UPLIGHT, 900
5000K CCT, MID lumen setting
Light Source: -
Ballast/Driver: -

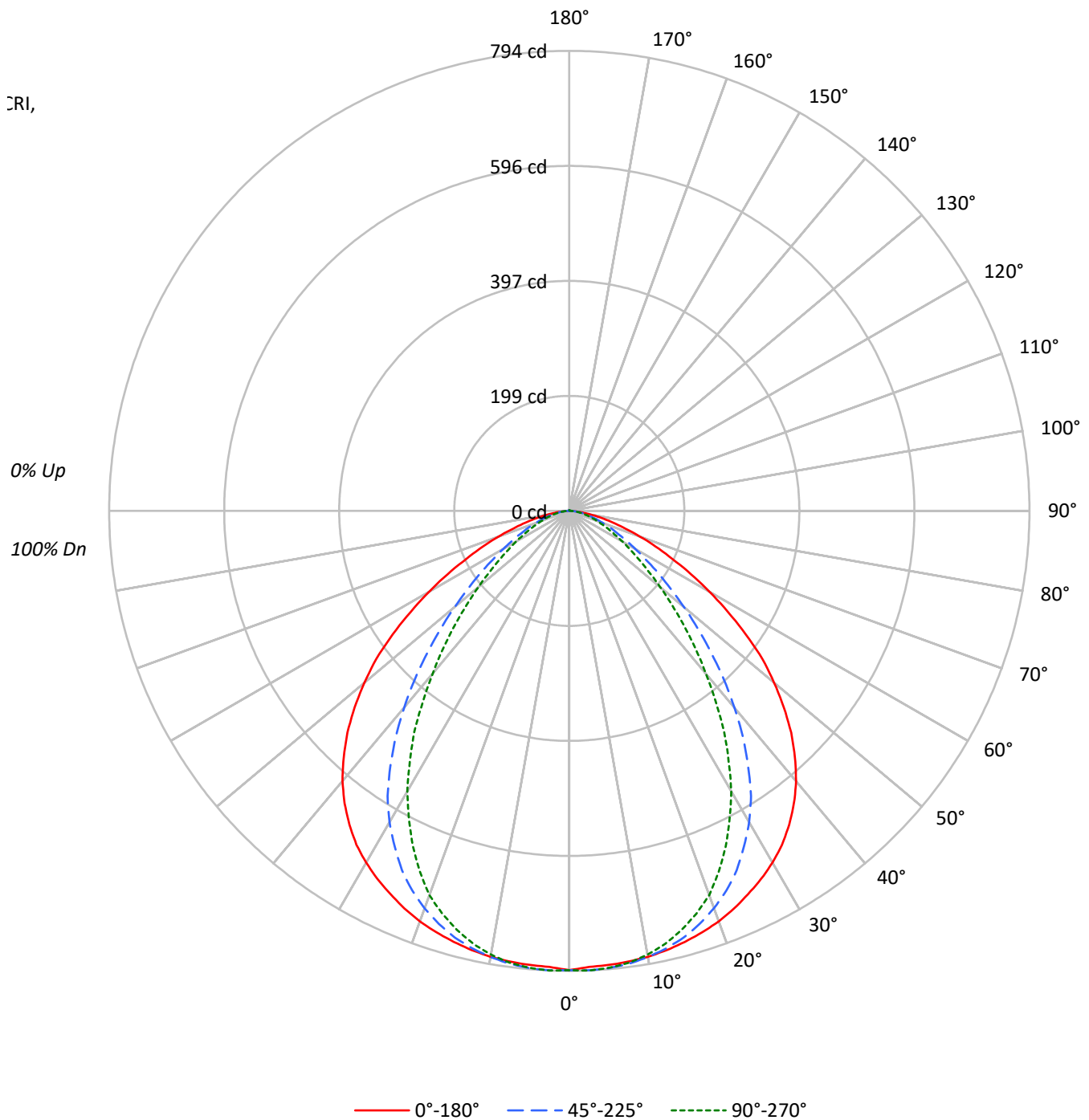
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1615.9 lumens
Efficiency: N/A
Efficacy: 116.3 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°	16230	16230	16230
5°	16170	16281	16269
10°	16247	16258	16168
15°	16325	16166	15872
20°	16430	15905	15380
25°	16491	15449	14433
30°	16575	14674	13217
35°	16531	13451	11654
40°	16273	11847	9799
45°	15675	10011	8085
50°	14698	8228	6521
55°	13277	6676	5241
60°	11434	5377	4345
65°	9501	4438	3610
70°	7795	3724	3077
75°	6187	3180	2674
80°	4681	2712	2406
85°	3148	2514	2255

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15675 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.2	4.7
10°-20°	214.5	13.3
20°-30°	314.2	19.4
30°-40°	342.9	21.2
40°-50°	290.7	18.0
50°-60°	197.6	12.2
60°-70°	111.6	6.9
70°-80°	50.9	3.2
80°-90°	13.3	0.8
90°-100°	1.7	0.1
100°-110°	1.0	0.1
110°-120°	0.6	0.0
120°-130°	0.5	0.0
130°-140°	0.4	0.0
140°-150°	0.3	0.0
150°-160°	0.2	0.0
160°-170°	0.2	0.0
170°-180°	0.1	0.0
0°-30°	603.9	37.4
0°-40°	946.8	58.6
0°-60°	1435.1	88.8
0°-90°	1610.9	99.7
90°-120°	3.3	0.2
90°-150°	4.4	0.3
90°-180°	5.0	0.3
0°-180°	1615.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	793	793	793	793	793	
5°	787	791	792	794	792	75
15°	770	770	763	754	749	218
25°	730	718	684	653	639	337
35°	661	619	538	482	466	413
45°	541	457	346	294	279	416
55°	372	275	187	155	147	332
65°	196	139	92	78	74	197
75°	78	57	40	35	34	85
85°	13	12	11	10	10	17
90°	0	2	2	3	3	1
95°	0	0	2	3	3	0
105°	0	0	1	2	2	0
115°	0	0	0	1	1	0
125°	0	0	0	1	1	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	1	1	0
175°	0	0	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°	792.6	792.6	792.6	792.6	792.6
2.5°	787.8	792.1	793.7	795.8	794.2
5°	786.7	791.0	792.1	793.7	791.5
7.5°	784.6	788.3	788.3	788.3	786.7
10°	781.4	784.0	781.9	779.8	777.6
12.5°	776.5	777.6	773.3	769.6	765.3
15°	770.1	769.6	762.6	754.0	748.7
17.5°	762.6	760.5	747.6	736.4	728.8
20°	754.0	748.7	729.9	712.2	705.8
22.5°	742.8	735.3	709.0	684.4	673.6
25°	729.9	717.6	683.8	652.7	638.8
27.5°	716.5	698.3	652.7	614.2	599.2
30°	701.0	675.8	620.6	576.1	559.0
32.5°	683.3	651.1	583.6	530.0	511.8
35°	661.3	619.0	538.1	481.8	466.2
37.5°	636.7	584.7	492.0	433.6	414.8
40°	608.8	545.6	443.2	384.8	366.6
42.5°	576.1	503.8	395.0	338.2	322.6
45°	541.3	457.1	345.7	293.7	279.2
47.5°	502.2	411.0	300.6	251.3	240.1
50°	461.4	365.0	258.3	216.0	204.7
52.5°	420.2	318.9	219.2	183.3	173.6
55°	371.9	274.9	187.0	155.4	146.8
57.5°	324.8	235.8	156.5	130.2	124.9
60°	279.2	198.3	131.3	109.9	106.1
62.5°	236.9	166.1	110.4	92.7	87.9
65°	196.1	139.3	91.6	78.2	74.5
67.5°	161.3	113.6	76.6	64.8	61.6
70°	130.2	91.6	62.2	53.1	51.4
72.5°	101.3	73.4	50.9	43.9	42.3
75°	78.2	57.3	40.2	35.4	33.8
77.5°	57.3	42.9	31.1	27.3	26.3
80°	39.7	30.5	23.0	20.9	20.4
82.5°	25.2	19.8	16.6	15.0	15.0
85°	13.4	12.3	10.7	10.2	9.6
87.5°	5.4	5.9	5.9	5.9	5.4
90°	0.0	1.6	2.1	2.7	2.7
92.5°	0.0	1.1	2.1	2.7	2.7
95°	0.0	0.5	1.6	2.7	2.7
97.5°	0.0	0.5	1.6	2.1	2.1
100°	0.0	0.5	1.1	2.1	2.1
102.5°	0.0	0.5	1.1	1.6	2.1
105°	0.0	0.5	1.1	1.6	1.6
107.5°	0.0	0.0	1.1	1.6	1.6
110°	0.0	0.0	0.5	1.1	1.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.5	1.1	1.6
115°	0.0	0.0	0.5	1.1	1.1
117.5°	0.0	0.0	0.5	1.1	1.1
120°	0.0	0.0	0.5	1.1	1.1
122.5°	0.0	0.0	0.5	1.1	1.1
125°	0.0	0.0	0.5	1.1	1.1
127.5°	0.0	0.5	0.5	0.5	1.1
130°	0.0	0.5	0.5	0.5	1.1
132.5°	0.5	0.5	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	0.5	0.5
157.5°	0.5	0.5	0.5	0.5	0.5
160°	0.5	0.5	0.5	0.5	1.1
162.5°	0.5	0.5	0.5	1.1	1.1
165°	0.5	0.5	0.5	1.1	1.1
167.5°	0.5	0.5	0.5	1.1	1.1
170°	0.5	0.5	0.5	1.1	1.1
172.5°	0.5	0.5	0.5	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



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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	20.02	21.46	20.39	21.78	22.10	15.38	16.82	15.75	17.14	17.47
	3H	21.27	22.56	21.65	22.89	23.26	16.42	17.71	16.80	18.04	18.41
	4H	21.67	22.87	22.08	23.23	23.62	16.79	17.99	17.20	18.35	18.74
	6H	21.91	23.02	22.33	23.39	23.79	17.05	18.16	17.47	18.54	18.94
	8H	21.96	23.02	22.40	23.41	23.82	17.14	18.20	17.58	18.59	19.00
	12H	21.98	22.99	22.42	23.38	23.82	17.21	18.21	17.64	18.60	19.04
4H	2H	20.03	21.24	20.44	21.59	21.98	15.95	17.16	16.36	17.51	17.90
	3H	21.44	22.43	21.86	22.84	23.25	17.18	18.17	17.60	18.58	18.99
	4H	21.93	22.82	22.37	23.24	23.69	17.64	18.53	18.08	18.95	19.40
	6H	22.27	23.04	22.74	23.50	23.96	18.00	18.77	18.46	19.22	19.69
	8H	22.36	23.08	22.83	23.53	24.01	18.12	18.84	18.59	19.29	19.77
	12H	22.41	23.05	22.90	23.53	24.01	18.22	18.86	18.71	19.35	19.83
8H	4H	21.92	22.64	22.40	23.09	23.57	17.93	18.65	18.40	19.10	19.58
	6H	22.32	22.91	22.82	23.41	23.89	18.38	18.97	18.88	19.47	19.95
	8H	22.44	22.97	22.96	23.49	23.98	18.56	19.09	19.08	19.61	20.10
	12H	22.53	23.00	23.05	23.50	24.07	18.72	19.19	19.24	19.69	20.26
12H	4H	21.90	22.54	22.39	23.02	23.50	17.96	18.60	18.45	19.09	19.57
	6H	22.29	22.82	22.81	23.34	23.83	18.43	18.96	18.95	19.48	19.97
	8H	22.44	22.91	22.96	23.41	23.99	18.66	19.13	19.17	19.63	20.20