

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: P895776

Luminaire Tested: 2MB-SC3-ACL-UNV-CC83-LOW-3500K

Issue Date: 11/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P895776
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-CC83-LOW-3500K
Description: Selectable 2FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS, 80CRI, 3500K CC
LOW lumen setting
Light Source: -
Ballast/Driver: -

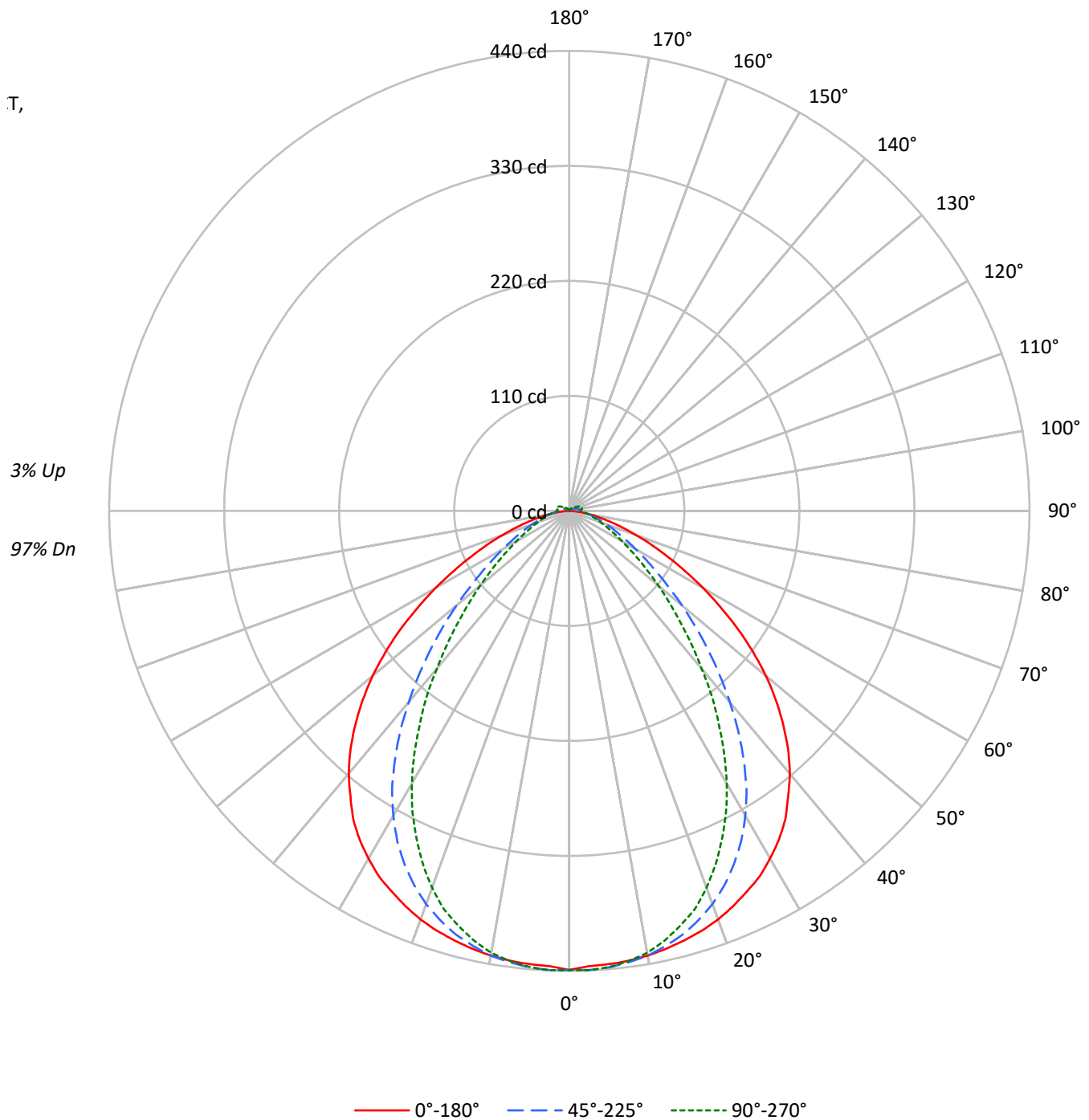
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 915.0 lumens
Efficiency: N/A
Efficacy: 132.6 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): 6.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.9915
Total Harmonic Distortion (THDi): 6.67573310469889
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°	8991	8991	8991
5°	8913	8813	8761
10°	8914	8599	8456
15°	8913	8331	8028
20°	8926	7989	7503
25°	8901	7537	6812
30°	8862	6947	6030
35°	8744	6176	5110
40°	8471	5269	4165
45°	8042	4336	3300
50°	7444	3446	2576
55°	6627	2679	1995
60°	5645	2091	1563
65°	4613	1662	1243
70°	3660	1345	1019
75°	2824	1098	889
80°	2009	923	806
85°	1142	806	728

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8042 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.6	4.5
10°-20°	118.0	12.9
20°-30°	171.5	18.7
30°-40°	185.4	20.3
40°-50°	156.4	17.1
50°-60°	107.2	11.7
60°-70°	62.5	6.8
70°-80°	31.9	3.5
80°-90°	13.8	1.5
90°-100°	8.4	0.9
100°-110°	7.5	0.8
110°-120°	5.1	0.6
120°-130°	2.8	0.3
130°-140°	1.6	0.2
140°-150°	0.8	0.1
150°-160°	0.4	0.0
160°-170°	0.2	0.0
170°-180°	0.0	0.0
0°-30°	331.1	36.2
0°-40°	516.5	56.5
0°-60°	780.1	85.3
0°-90°	888.3	97.1
90°-120°	20.9	2.3
90°-150°	26.1	2.9
90°-180°	27.0	3.0
0°-180°	915.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	439	439	439	439	439	
5°	435	438	438	439	438	41
15°	425	425	420	414	410	120
25°	402	394	373	354	346	185
35°	360	337	291	260	249	224
45°	289	245	187	158	150	223
55°	197	149	102	85	81	175
65°	104	76	53	45	43	104
75°	41	34	27	25	24	45
85°	7	10	13	14	14	9
90°	0	4	10	11	11	0
95°	0	4	9	11	12	0
105°	0	2	8	12	12	0
115°	0	2	5	9	10	0
125°	0	1	3	5	6	0
135°	0	1	2	3	4	0
145°	0	1	2	2	2	0
155°	0	1	1	1	2	0
165°	0	0	1	1	1	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°	439.1	439.1	439.1	439.1	439.1
2.5°	435.8	438.5	439.4	440.6	439.7
5°	435.2	437.9	438.2	439.1	437.9
7.5°	434.0	436.1	435.5	435.5	434.3
10°	431.9	433.1	431.9	430.4	429.2
12.5°	428.9	429.8	426.1	424.0	421.0
15°	425.2	424.9	419.5	414.4	410.5
17.5°	421.0	418.9	410.5	402.6	399.3
20°	415.9	412.0	400.2	388.7	383.6
22.5°	409.2	403.8	387.5	372.7	365.8
25°	401.7	393.9	372.7	354.3	345.6
27.5°	394.2	382.4	356.1	333.2	324.7
30°	383.9	369.1	336.5	310.6	301.2
32.5°	373.0	354.3	315.4	285.2	275.8
35°	360.1	336.8	290.6	259.6	249.3
37.5°	343.8	316.3	265.6	233.0	224.2
40°	328.1	294.0	238.7	206.4	196.8
42.5°	309.7	269.8	212.8	181.4	172.6
45°	289.4	244.8	187.4	158.4	149.7
47.5°	268.0	220.9	163.3	136.4	129.5
50°	245.4	196.5	140.6	117.4	111.1
52.5°	221.2	172.0	119.8	100.5	94.8
55°	196.8	149.1	102.0	85.4	80.9
57.5°	171.1	127.1	86.9	72.7	68.5
60°	147.9	108.6	73.3	62.2	58.9
62.5°	124.9	91.7	62.5	52.8	50.1
65°	103.8	76.4	52.8	45.0	42.9
67.5°	85.4	64.0	45.3	38.6	37.1
70°	68.2	52.2	38.0	33.2	31.7
72.5°	53.7	42.3	32.0	28.7	27.8
75°	41.3	33.8	26.9	25.0	24.4
77.5°	30.2	26.0	22.6	21.7	21.4
80°	21.1	19.6	19.0	19.0	19.0
82.5°	13.3	14.5	16.0	16.6	16.6
85°	7.2	10.0	13.3	14.2	14.2
87.5°	3.0	6.9	11.2	12.1	11.8
90°	0.3	4.5	9.7	10.9	10.9
92.5°	0.0	4.5	9.7	10.9	10.9
95°	0.0	4.2	9.4	11.2	11.5
97.5°	0.0	3.9	9.4	11.5	11.8
100°	0.3	3.6	9.4	11.8	12.1
102.5°	0.0	3.0	8.8	11.8	12.4
105°	0.0	2.4	8.1	11.8	12.4
107.5°	0.0	1.8	7.5	11.2	12.1
110°	0.0	1.8	6.9	10.6	11.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	1.5	6.0	9.7	10.9
115°	0.0	1.5	5.1	8.8	10.0
117.5°	0.0	1.2	4.5	7.8	8.8
120°	0.0	1.2	3.9	6.9	7.8
122.5°	0.0	1.2	3.6	6.0	6.9
125°	0.0	0.9	3.0	5.1	6.0
127.5°	0.3	0.9	2.7	4.5	5.4
130°	0.3	0.9	2.4	3.9	4.8
132.5°	0.3	0.9	2.1	3.6	4.2
135°	0.3	0.9	2.1	3.0	3.6
137.5°	0.3	0.9	1.8	2.7	3.0
140°	0.3	0.9	1.5	2.4	2.7
142.5°	0.3	0.6	1.5	2.1	2.4
145°	0.3	0.6	1.5	1.8	2.1
147.5°	0.3	0.6	1.2	1.8	1.8
150°	0.3	0.6	1.2	1.5	1.8
152.5°	0.3	0.6	0.9	1.5	1.5
155°	0.3	0.6	0.9	1.2	1.5
157.5°	0.3	0.6	0.9	1.2	1.2
160°	0.3	0.6	0.6	0.9	1.2
162.5°	0.3	0.3	0.6	0.9	0.9
165°	0.3	0.3	0.6	0.9	0.9
167.5°	0.3	0.3	0.6	0.6	0.9
170°	0.3	0.3	0.6	0.6	0.6
172.5°	0.3	0.3	0.6	0.6	0.3
175°	0.3	0.3	0.6	0.6	0.3
177.5°	0.3	0.3	0.6	0.3	0.3
180°	0.3	0.3	0.3	0.3	0.3



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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	16.16	17.56	16.58	17.94	18.33	12.49	13.89	12.90	14.26	14.65
	3H	17.23	18.48	17.66	18.87	19.31	13.67	14.92	14.09	15.31	15.74
	4H	17.52	18.70	17.97	19.11	19.56	14.19	15.36	14.64	15.77	16.23
	6H	17.66	18.74	18.12	19.17	19.63	14.73	15.81	15.19	16.24	16.70
	8H	17.67	18.70	18.15	19.15	19.62	15.00	16.03	15.48	16.48	16.96
	12H	17.66	18.64	18.14	19.08	19.58	15.30	16.28	15.78	16.72	17.22
4H	2H	16.20	17.37	16.65	17.78	18.23	12.94	14.11	13.39	14.52	14.98
	3H	17.42	18.39	17.88	18.85	19.32	14.31	15.28	14.77	15.74	16.21
	4H	17.80	18.67	18.28	19.14	19.65	14.94	15.81	15.42	16.28	16.79
	6H	18.02	18.78	18.52	19.27	19.80	15.61	16.36	16.11	16.86	17.39
	8H	18.05	18.76	18.56	19.26	19.80	15.95	16.66	16.46	17.16	17.70
	12H	18.05	18.69	18.59	19.22	19.76	16.33	16.96	16.86	17.50	18.04
8H	4H	17.82	18.53	18.33	19.03	19.56	15.15	15.86	15.67	16.36	16.90
	6H	18.09	18.68	18.64	19.22	19.77	15.94	16.52	16.48	17.07	17.62
	8H	18.16	18.69	18.72	19.25	19.81	16.38	16.90	16.94	17.47	18.02
	12H	18.20	18.66	18.75	19.21	19.84	16.88	17.35	17.44	17.89	18.52
12H	4H	17.80	18.44	18.33	18.97	19.51	15.16	15.79	15.69	16.33	16.87
	6H	18.09	18.61	18.65	19.18	19.73	15.97	16.50	16.53	17.06	17.62
	8H	18.19	18.66	18.75	19.20	19.83	16.47	16.93	17.02	17.48	18.11