

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: P895785

Luminaire Tested: 2MB-SC3-ACL-UNV-CC93-LOW-3500K

Issue Date: 11/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P895785
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-LOW-3500K
Description: Selectable 2FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS, 90CRI, 3500K CC
LOW lumen setting
Light Source: -
Ballast/Driver: -

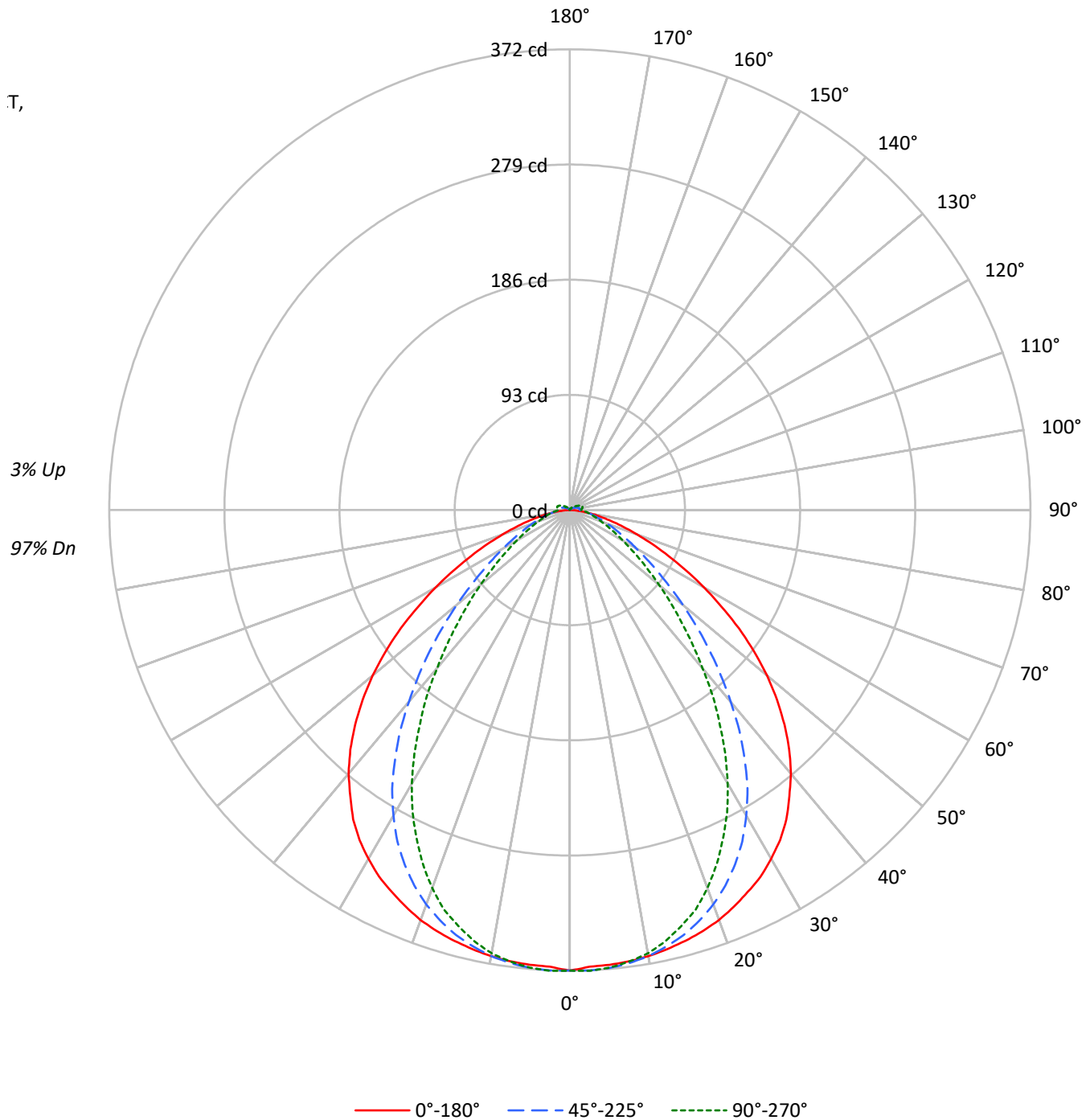
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 775.0 lumens
Efficiency: N/A
Efficacy: 112.3 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 (Ain): 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°	7615	7615	7615
5°	7549	7466	7420
10°	7550	7283	7162
15°	7551	7056	6799
20°	7561	6768	6354
25°	7538	6384	5769
30°	7507	5884	5107
35°	7406	5233	4327
40°	7175	4463	3528
45°	6811	3672	2795
50°	6303	2919	2182
55°	5614	2269	1689
60°	4783	1771	1322
65°	3906	1407	1052
70°	3102	1140	862
75°	2393	930	755
80°	1704	782	683
85°	968	679	615

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6811 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.2	4.5
10°-20°	100.0	12.9
20°-30°	145.3	18.7
30°-40°	157.0	20.3
40°-50°	132.5	17.1
50°-60°	90.8	11.7
60°-70°	52.9	6.8
70°-80°	27.0	3.5
80°-90°	11.6	1.5
90°-100°	7.1	0.9
100°-110°	6.3	0.8
110°-120°	4.3	0.6
120°-130°	2.4	0.3
130°-140°	1.3	0.2
140°-150°	0.7	0.1
150°-160°	0.4	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	280.5	36.2
0°-40°	437.5	56.5
0°-60°	660.7	85.3
0°-90°	752.3	97.1
90°-120°	17.7	2.3
90°-150°	22.1	2.9
90°-180°	23.0	3.0
0°-180°	775.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	372	372	372	372	372	
5°	369	371	371	372	371	35
15°	360	360	355	351	348	102
25°	340	334	316	300	293	157
35°	305	285	246	220	211	190
45°	245	207	159	134	127	188
55°	167	126	86	72	68	149
65°	88	65	45	38	36	88
75°	35	29	23	21	21	38
85°	6	8	11	12	12	7
90°	0	4	8	9	9	0
95°	0	4	8	10	10	0
105°	0	2	7	10	10	0
115°	0	1	4	7	8	0
125°	0	1	3	4	5	0
135°	0	1	2	3	3	0
145°	0	0	1	2	2	0
155°	0	0	1	1	1	0
165°	0	0	0	1	1	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	371.9	371.9	371.9	371.9	371.9
2.5°	369.1	371.4	372.2	373.2	372.4
5°	368.6	370.9	371.2	371.9	370.9
7.5°	367.6	369.4	368.9	368.9	367.8
10°	365.8	366.8	365.8	364.5	363.5
12.5°	363.2	364.0	360.9	359.2	356.6
15°	360.2	359.9	355.3	351.0	347.7
17.5°	356.6	354.8	347.7	341.0	338.2
20°	352.3	348.9	339.0	329.2	324.9
22.5°	346.6	342.0	328.2	315.7	309.8
25°	340.2	333.6	315.7	300.1	292.7
27.5°	333.8	323.9	301.6	282.2	275.1
30°	325.2	312.6	285.0	263.0	255.1
32.5°	316.0	300.1	267.1	241.6	233.6
35°	305.0	285.3	246.2	219.8	211.1
37.5°	291.2	267.9	225.0	197.3	189.9
40°	277.9	249.0	202.2	174.8	166.7
42.5°	262.3	228.5	180.2	153.6	146.2
45°	245.1	207.3	158.7	134.2	126.8
47.5°	227.0	187.1	138.3	115.5	109.7
50°	207.8	166.4	119.1	99.4	94.1
52.5°	187.4	145.7	101.5	85.1	80.3
55°	166.7	126.3	86.4	72.3	68.5
57.5°	144.9	107.6	73.6	61.6	58.0
60°	125.3	92.0	62.1	52.7	49.8
62.5°	105.8	77.7	52.9	44.7	42.4
65°	87.9	64.7	44.7	38.1	36.3
67.5°	72.3	54.2	38.3	32.7	31.4
70°	57.8	44.2	32.2	28.1	26.8
72.5°	45.5	35.8	27.1	24.3	23.5
75°	35.0	28.6	22.8	21.2	20.7
77.5°	25.6	22.0	19.2	18.4	18.1
80°	17.9	16.6	16.1	16.1	16.1
82.5°	11.2	12.3	13.5	14.1	14.1
85°	6.1	8.4	11.2	12.0	12.0
87.5°	2.6	5.9	9.5	10.2	10.0
90°	0.3	3.8	8.2	9.2	9.2
92.5°	0.0	3.8	8.2	9.2	9.2
95°	0.0	3.6	7.9	9.5	9.7
97.5°	0.0	3.3	7.9	9.7	10.0
100°	0.3	3.1	7.9	10.0	10.2
102.5°	0.0	2.6	7.4	10.0	10.5
105°	0.0	2.0	6.9	10.0	10.5
107.5°	0.0	1.5	6.4	9.5	10.2
110°	0.0	1.5	5.9	8.9	9.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	1.3	5.1	8.2	9.2
115°	0.0	1.3	4.3	7.4	8.4
117.5°	0.0	1.0	3.8	6.6	7.4
120°	0.0	1.0	3.3	5.9	6.6
122.5°	0.0	1.0	3.1	5.1	5.9
125°	0.0	0.8	2.6	4.3	5.1
127.5°	0.3	0.8	2.3	3.8	4.6
130°	0.3	0.8	2.0	3.3	4.1
132.5°	0.3	0.8	1.8	3.1	3.6
135°	0.3	0.8	1.8	2.6	3.1
137.5°	0.3	0.8	1.5	2.3	2.6
140°	0.3	0.8	1.3	2.0	2.3
142.5°	0.3	0.5	1.3	1.8	2.0
145°	0.3	0.5	1.3	1.5	1.8
147.5°	0.3	0.5	1.0	1.5	1.5
150°	0.3	0.5	1.0	1.3	1.5
152.5°	0.3	0.5	0.8	1.3	1.3
155°	0.3	0.5	0.8	1.0	1.3
157.5°	0.3	0.5	0.8	1.0	1.0
160°	0.3	0.5	0.5	0.8	1.0
162.5°	0.3	0.3	0.5	0.8	0.8
165°	0.3	0.3	0.5	0.8	0.8
167.5°	0.3	0.3	0.5	0.5	0.8
170°	0.3	0.3	0.5	0.5	0.5
172.5°	0.3	0.3	0.5	0.5	0.3
175°	0.3	0.3	0.5	0.5	0.3
177.5°	0.3	0.3	0.5	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	15.58	16.98	16.00	17.36	17.75	11.91	13.31	12.32	13.69	14.08
	3H	16.65	17.90	17.08	18.29	18.73	13.09	14.34	13.52	14.73	15.17
	4H	16.94	18.12	17.39	18.53	18.98	13.61	14.79	14.06	15.20	15.65
	6H	17.08	18.16	17.54	18.59	19.05	14.15	15.23	14.61	15.66	16.12
	8H	17.09	18.12	17.57	18.57	19.04	14.43	15.46	14.91	15.91	16.38
	12H	17.08	18.06	17.56	18.50	19.00	14.72	15.71	15.20	16.15	16.65
4H	2H	15.62	16.79	16.07	17.20	17.65	12.37	13.54	12.82	13.95	14.40
	3H	16.84	17.81	17.30	18.27	18.74	13.73	14.70	14.19	15.16	15.63
	4H	17.22	18.09	17.70	18.56	19.07	14.36	15.23	14.84	15.70	16.21
	6H	17.44	18.20	17.95	18.70	19.23	15.03	15.79	15.54	16.29	16.82
	8H	17.47	18.18	17.98	18.68	19.22	15.38	16.09	15.89	16.58	17.12
	12H	17.48	18.11	18.01	18.64	19.18	15.75	16.39	16.29	16.92	17.46
8H	4H	17.24	17.95	17.75	18.45	18.98	14.58	15.29	15.09	15.79	16.32
	6H	17.51	18.10	18.06	18.65	19.19	15.36	15.95	15.91	16.49	17.04
	8H	17.58	18.11	18.14	18.67	19.23	15.80	16.33	16.36	16.89	17.45
	12H	17.62	18.09	18.18	18.63	19.26	16.30	16.77	16.86	17.32	17.95
12H	4H	17.22	17.86	17.76	18.39	18.93	14.58	15.22	15.12	15.75	16.29
	6H	17.51	18.04	18.07	18.60	19.15	15.39	15.92	15.96	16.48	17.04
	8H	17.61	18.08	18.17	18.62	19.26	15.89	16.36	16.45	16.90	17.54