

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: P895778

Luminaire Tested: 2MB-SC3-ACL-UNV-CC83-LOW-5000K

Issue Date: 11/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P895778
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-5000K
Description: Selectable 2FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS, 80CRI, 5000K CC
LOW lumen setting
Light Source: -
Ballast/Driver: -

Summary

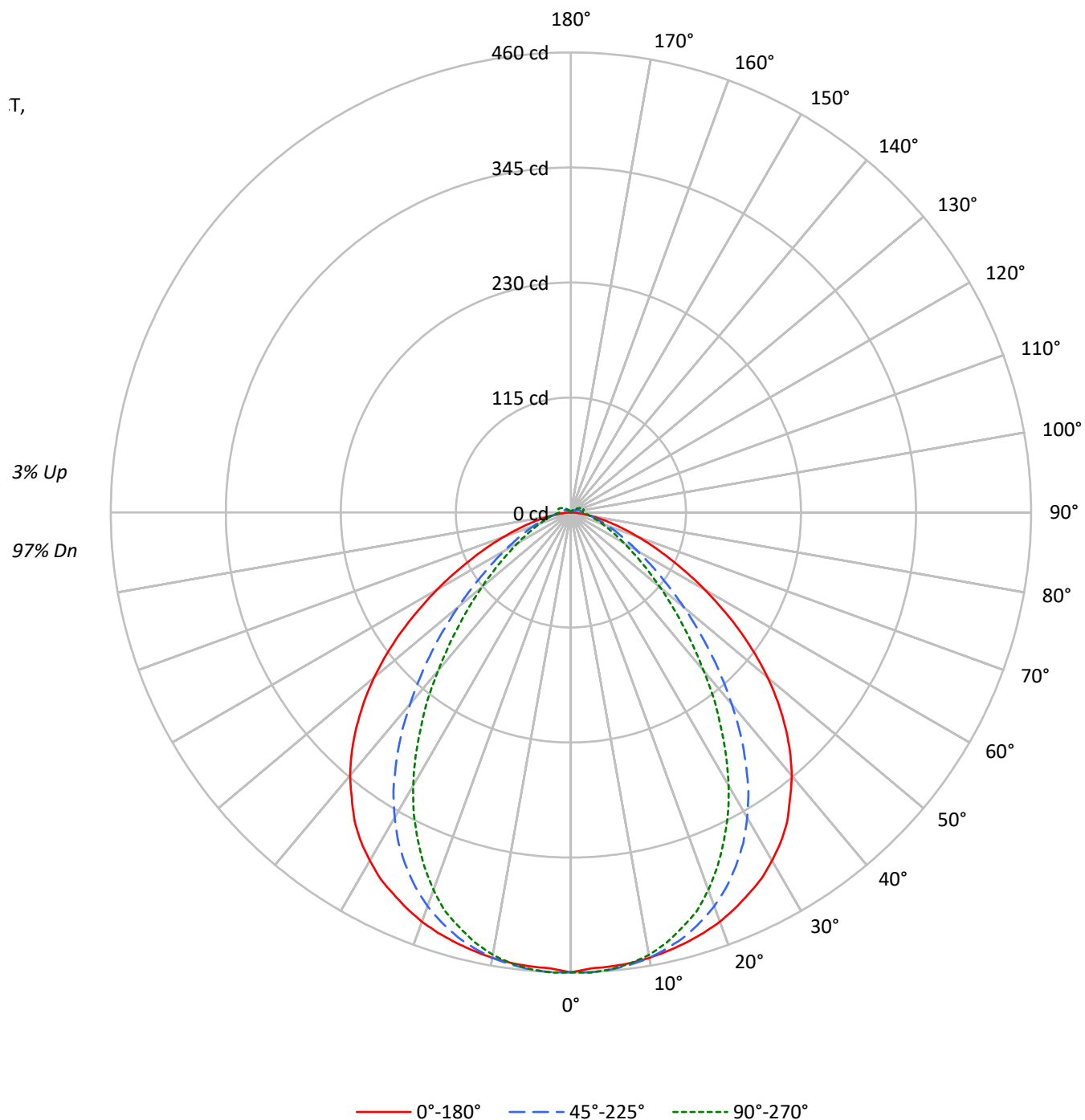
Lumens per Lamp: N/A
Luminaire Lumens: 958.0 lumens
Efficiency: N/A
Efficacy: 138.8 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.07 / 1.17
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 1.98' x H: 0.08')
CIE Type: Direct

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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99
1	110	105	102	98	107	103	100	97	98	96	93	94	92	90	90	88	87
2	101	94	88	83	98	92	86	82	88	83	80	84	81	77	81	78	75
3	93	84	77	71	91	82	76	70	79	73	69	76	71	67	73	69	66
4	86	76	68	62	84	74	67	61	71	65	60	69	63	59	66	62	58
5	80	68	60	54	78	67	60	54	65	58	53	63	57	52	61	56	52
6	74	62	54	48	72	61	54	48	59	52	47	57	51	47	56	50	46
7	69	57	49	43	68	56	49	43	54	48	43	53	47	42	51	46	42
8	65	52	45	39	63	52	44	39	50	43	39	49	43	38	47	42	38
9	61	48	41	36	59	48	40	35	46	40	35	45	39	35	44	39	35
10	57	45	38	33	56	44	37	32	43	37	32	42	36	32	41	36	32

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9415	9415	9415
5°	9332	9227	9173
10°	9333	9003	8853
15°	9332	8723	8403
20°	9344	8365	7855
25°	9320	7890	7131
30°	9277	7274	6314
35°	9154	6468	5350
40°	8869	5516	4359
45°	8420	4540	3454
50°	7793	3610	2697
55°	6937	2805	2088
60°	5909	2191	1635
65°	4831	1741	1301
70°	3832	1409	1068
75°	2961	1147	933
80°	2104	967	845
85°	1206	843	764

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8420 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.5	4.5
10°-20°	123.6	12.9
20°-30°	179.6	18.7
30°-40°	194.1	20.3
40°-50°	163.8	17.1
50°-60°	112.2	11.7
60°-70°	65.4	6.8
70°-80°	33.4	3.5
80°-90°	14.4	1.5
90°-100°	8.7	0.9
100°-110°	7.8	0.8
110°-120°	5.3	0.6
120°-130°	3.0	0.3
130°-140°	1.6	0.2
140°-150°	0.9	0.1
150°-160°	0.4	0.0
160°-170°	0.2	0.0
170°-180°	0.0	0.0
0°-30°	346.7	36.2
0°-40°	540.8	56.5
0°-60°	816.8	85.3
0°-90°	930.0	97.1
90°-120°	21.9	2.3
90°-150°	27.3	2.9
90°-180°	28.0	2.9
0°-180°	958.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	460	460	460	460	460	
5°	456	458	459	460	458	43
15°	445	445	439	434	430	126
25°	421	412	390	371	362	194
35°	377	353	304	272	261	235
45°	303	256	196	166	157	233
55°	206	156	107	89	85	184
65°	109	80	55	47	45	109
75°	43	35	28	26	26	47
85°	8	10	14	15	15	9
90°	0	5	10	11	11	1
95°	0	4	10	12	12	0
105°	0	2	8	12	13	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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	459.8	459.8	459.8	459.8	459.8
2.5°	456.3	459.1	460.1	461.3	460.4
5°	455.7	458.5	458.8	459.8	458.5
7.5°	454.4	456.6	456.0	456.0	454.7
10°	452.2	453.4	452.2	450.6	449.3
12.5°	449.0	450.0	446.2	444.0	440.8
15°	445.2	444.9	439.2	433.9	429.7
17.5°	440.8	438.6	429.7	421.5	418.1
20°	435.4	431.3	419.0	407.0	401.6
22.5°	428.5	422.8	405.7	390.2	383.0
25°	420.6	412.4	390.2	371.0	361.8
27.5°	412.7	400.4	372.9	348.9	340.0
30°	401.9	386.5	352.3	325.2	315.4
32.5°	390.6	371.0	330.2	298.6	288.8
35°	377.0	352.6	304.3	271.7	261.0
37.5°	359.9	331.2	278.1	243.9	234.8
40°	343.5	307.8	249.9	216.1	206.0
42.5°	324.2	282.5	222.8	189.9	180.7
45°	303.0	256.3	196.2	165.9	156.7
47.5°	280.6	231.3	170.9	142.8	135.6
50°	256.9	205.7	147.3	122.9	116.3
52.5°	231.6	180.1	125.4	105.2	99.2
55°	206.0	156.1	106.8	89.4	84.7
57.5°	179.2	133.0	91.0	76.2	71.7
60°	154.8	113.8	76.8	65.1	61.6
62.5°	130.8	96.1	65.4	55.3	52.5
65°	108.7	79.9	55.3	47.1	44.9
67.5°	89.4	67.0	47.4	40.4	38.9
70°	71.4	54.7	39.8	34.8	33.2
72.5°	56.2	44.2	33.5	30.0	29.1
75°	43.3	35.4	28.1	26.2	25.6
77.5°	31.6	27.2	23.7	22.8	22.4
80°	22.1	20.5	19.9	19.9	19.9
82.5°	13.9	15.2	16.7	17.4	17.4
85°	7.6	10.4	13.9	14.9	14.9
87.5°	3.2	7.3	11.7	12.6	12.3
90°	0.3	4.7	10.1	11.4	11.4
92.5°	0.0	4.7	10.1	11.4	11.4
95°	0.0	4.4	9.8	11.7	12.0
97.5°	0.0	4.1	9.8	12.0	12.3
100°	0.3	3.8	9.8	12.3	12.6
102.5°	0.0	3.2	9.2	12.3	13.0
105°	0.0	2.5	8.5	12.3	13.0
107.5°	0.0	1.9	7.9	11.7	12.6
110°	0.0	1.9	7.3	11.1	12.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	1.6	6.3	10.1	11.4
115°	0.0	1.6	5.4	9.2	10.4
117.5°	0.0	1.3	4.7	8.2	9.2
120°	0.0	1.3	4.1	7.3	8.2
122.5°	0.0	1.3	3.8	6.3	7.3
125°	0.0	0.9	3.2	5.4	6.3
127.5°	0.3	0.9	2.8	4.7	5.7
130°	0.3	0.9	2.5	4.1	5.1
132.5°	0.3	0.9	2.2	3.8	4.4
135°	0.3	0.9	2.2	3.2	3.8
137.5°	0.3	0.9	1.9	2.8	3.2
140°	0.3	0.9	1.6	2.5	2.8
142.5°	0.3	0.6	1.6	2.2	2.5
145°	0.3	0.6	1.6	1.9	2.2
147.5°	0.3	0.6	1.3	1.9	1.9
150°	0.3	0.6	1.3	1.6	1.9
152.5°	0.3	0.6	0.9	1.6	1.6
155°	0.3	0.6	0.9	1.3	1.6
157.5°	0.3	0.6	0.9	1.3	1.3
160°	0.3	0.6	0.6	0.9	1.3
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	16.32	17.72	16.74	18.10	18.49	12.65	14.05	13.06	14.43	14.82
	3H	17.39	18.64	17.82	19.03	19.47	13.83	15.08	14.26	15.47	15.91
	4H	17.68	18.85	18.13	19.26	19.72	14.36	15.53	14.80	15.94	16.39
	6H	17.82	18.90	18.28	19.33	19.79	14.89	15.97	15.35	16.40	16.87
	8H	17.83	18.86	18.30	19.31	19.78	15.17	16.20	15.65	16.65	17.12
	12H	17.82	18.80	18.30	19.24	19.74	15.46	16.45	15.94	16.89	17.39
4H	2H	16.35	17.53	16.80	17.94	18.39	13.11	14.28	13.56	14.69	15.14
	3H	17.58	18.55	18.04	19.01	19.48	14.47	15.44	14.93	15.90	16.37
	4H	17.96	18.83	18.44	19.30	19.81	15.10	15.97	15.58	16.45	16.96
	6H	18.18	18.93	18.68	19.43	19.96	15.77	16.53	16.28	17.03	17.56
	8H	18.21	18.92	18.72	19.42	19.95	16.12	16.83	16.63	17.32	17.86
	12H	18.21	18.85	18.74	19.38	19.92	16.50	17.13	17.03	17.66	18.20
8H	4H	17.98	18.69	18.49	19.18	19.72	15.32	16.03	15.83	16.53	17.06
	6H	18.25	18.84	18.80	19.38	19.93	16.10	16.69	16.65	17.24	17.78
	8H	18.32	18.85	18.88	19.41	19.96	16.54	17.07	17.10	17.63	18.19
	12H	18.35	18.82	18.91	19.37	20.00	17.05	17.51	17.60	18.06	18.69
12H	4H	17.96	18.59	18.49	19.13	19.67	15.32	15.96	15.86	16.49	17.03
	6H	18.24	18.77	18.81	19.33	19.89	16.13	16.66	16.70	17.22	17.78
	8H	18.35	18.82	18.91	19.36	19.99	16.63	17.10	17.19	17.64	18.27