

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: P895779

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

Issue Date: 11/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P895779
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-MID-3500K
Description: Selectable 2FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS, 80CRI, 3500K CC
MID lumen setting
Light Source: -
Ballast/Driver: -

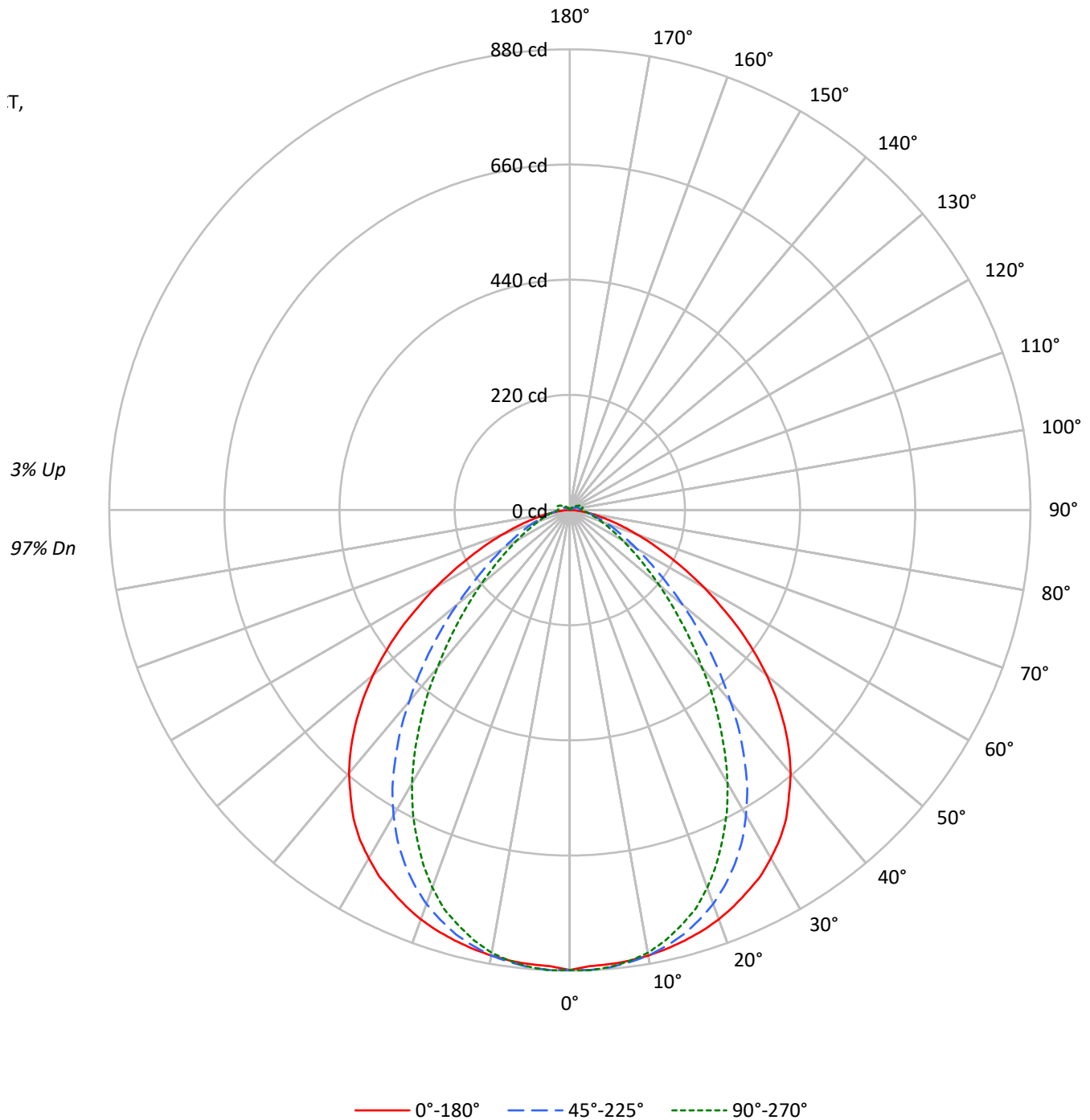
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1830.9 lumens
Efficiency: N/A
Efficacy: 131.7 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

TEST NUMBER: P895779
CATALOG NUMBER: 2MB-SC3-ACL-UNV-CC83-MID-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P895779

CATALOG NUMBER: 2MB-SC3-ACL-UNV-CC83-MID-3500K

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°	17993	17993	17993
5°	17835	17636	17531
10°	17836	17206	16921
15°	17839	16673	16063
20°	17861	15986	15013
25°	17811	15083	13630
30°	17733	13903	12066
35°	17495	12361	10226
40°	16950	10544	8333
45°	16095	8677	6605
50°	14894	6897	5153
55°	13261	5361	3992
60°	11295	4188	3126
65°	9235	3327	2486
70°	7325	2694	2039
75°	5655	2196	1783
80°	4027	1847	1613
85°	2300	1613	1455

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16095 cd/sqm



TEST NUMBER: P895779

CATALOG NUMBER: 2MB-SC3-ACL-UNV-CC83-MID-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.2	4.5
10°-20°	236.2	12.9
20°-30°	343.2	18.7
30°-40°	371.0	20.3
40°-50°	313.0	17.1
50°-60°	214.5	11.7
60°-70°	125.0	6.8
70°-80°	63.8	3.5
80°-90°	27.5	1.5
90°-100°	16.7	0.9
100°-110°	14.9	0.8
110°-120°	10.1	0.6
120°-130°	5.7	0.3
130°-140°	3.1	0.2
140°-150°	1.6	0.1
150°-160°	0.9	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-30°	662.6	36.2
0°-40°	1033.6	56.5
0°-60°	1561.1	85.3
0°-90°	1777.5	97.1
90°-120°	41.8	2.3
90°-150°	52.2	2.8
90°-180°	53.0	2.9
0°-180°	1830.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	879	879	879	879	879	
5°	871	876	877	879	876	83
15°	851	850	840	829	821	240
25°	804	788	746	709	692	371
35°	720	674	582	519	499	449
45°	579	490	375	317	300	445
55°	394	298	204	171	162	351
65°	208	153	106	90	86	209
75°	83	68	54	50	49	90
85°	14	20	27	28	28	18
90°	1	9	19	22	22	1
95°	0	8	19	22	23	0
105°	0	5	16	24	25	0
115°	0	3	10	18	20	0
125°	0	2	6	10	12	0
135°	1	2	4	6	7	0
145°	1	1	3	4	4	0
155°	1	1	2	2	3	0
165°	1	1	1	2	2	0
175°	1	1	1	1	1	0
180°	1	1	1	1	1	



TEST NUMBER: P895779

CATALOG NUMBER: 2MB-SC3-ACL-UNV-CC83-MID-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	878.7	878.7	878.7	878.7	878.7
2.5°	872.1	877.5	879.3	881.8	879.9
5°	870.9	876.3	876.9	878.7	876.3
7.5°	868.5	872.7	871.5	871.5	869.1
10°	864.2	866.7	864.2	861.2	858.8
12.5°	858.2	860.0	852.8	848.5	842.5
15°	851.0	850.3	839.5	829.2	821.4
17.5°	842.5	838.3	821.4	805.7	799.0
20°	832.2	824.4	800.8	777.9	767.6
22.5°	818.9	808.1	775.5	745.9	732.0
25°	803.8	788.1	745.9	709.0	691.5
27.5°	788.7	765.2	712.6	666.7	649.8
30°	768.2	738.6	673.4	621.5	602.7
32.5°	746.5	709.0	631.1	570.7	552.0
35°	720.5	674.0	581.6	519.4	498.9
37.5°	687.9	632.9	531.5	466.2	448.7
40°	656.5	588.2	477.7	413.1	393.8
42.5°	619.6	539.9	425.8	363.0	345.5
45°	579.2	489.8	375.0	317.1	299.6
47.5°	536.3	442.1	326.7	273.0	259.1
50°	491.0	393.2	281.4	234.9	222.2
52.5°	442.7	344.2	239.8	201.1	189.6
55°	393.8	298.3	204.1	170.9	161.9
57.5°	342.4	254.3	173.9	145.5	137.1
60°	295.9	217.4	146.8	124.4	117.8
62.5°	250.0	183.6	125.0	105.7	100.3
65°	207.8	152.8	105.7	90.0	85.8
67.5°	170.9	128.0	90.6	77.3	74.3
70°	136.5	104.5	76.1	66.4	63.4
72.5°	107.5	84.6	64.0	57.4	55.6
75°	82.7	67.6	53.8	50.1	48.9
77.5°	60.4	51.9	45.3	43.5	42.9
80°	42.3	39.3	38.0	38.0	38.0
82.5°	26.6	29.0	32.0	33.2	33.2
85°	14.5	19.9	26.6	28.4	28.4
87.5°	6.0	13.9	22.3	24.2	23.6
90°	0.6	9.1	19.3	21.7	21.7
92.5°	0.0	9.1	19.3	21.7	21.7
95°	0.0	8.5	18.7	22.3	22.9
97.5°	0.0	7.9	18.7	22.9	23.6
100°	0.6	7.2	18.7	23.6	24.2
102.5°	0.0	6.0	17.5	23.6	24.8
105°	0.0	4.8	16.3	23.6	24.8
107.5°	0.0	3.6	15.1	22.3	24.2
110°	0.0	3.6	13.9	21.1	22.9



TEST NUMBER: P895779

CATALOG NUMBER: 2MB-SC3-ACL-UNV-CC83-MID-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	3.0	12.1	19.3	21.7
115°	0.0	3.0	10.3	17.5	19.9
117.5°	0.0	2.4	9.1	15.7	17.5
120°	0.0	2.4	7.9	13.9	15.7
122.5°	0.0	2.4	7.2	12.1	13.9
125°	0.0	1.8	6.0	10.3	12.1
127.5°	0.6	1.8	5.4	9.1	10.9
130°	0.6	1.8	4.8	7.9	9.7
132.5°	0.6	1.8	4.2	7.2	8.5
135°	0.6	1.8	4.2	6.0	7.2
137.5°	0.6	1.8	3.6	5.4	6.0
140°	0.6	1.8	3.0	4.8	5.4
142.5°	0.6	1.2	3.0	4.2	4.8
145°	0.6	1.2	3.0	3.6	4.2
147.5°	0.6	1.2	2.4	3.6	3.6
150°	0.6	1.2	2.4	3.0	3.6
152.5°	0.6	1.2	1.8	3.0	3.0
155°	0.6	1.2	1.8	2.4	3.0
157.5°	0.6	1.2	1.8	2.4	2.4
160°	0.6	1.2	1.2	1.8	2.4
162.5°	0.6	0.6	1.2	1.8	1.8
165°	0.6	0.6	1.2	1.8	1.8
167.5°	0.6	0.6	1.2	1.2	1.8
170°	0.6	0.6	1.2	1.2	1.2
172.5°	0.6	0.6	1.2	1.2	0.6
175°	0.6	0.6	1.2	1.2	0.6
177.5°	0.6	0.6	1.2	0.6	0.6
180°	0.6	0.6	0.6	0.6	0.6



TEST NUMBER: P895779
 CATALOG NUMBER: 2MB-SC3-ACL-UNV-CC83-MID-3500K

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	18.57	19.97	18.99	20.35	20.74	14.90	16.30	15.31	16.67	17.06
	3H	19.64	20.89	20.07	21.28	21.72	16.08	17.33	16.50	17.72	18.15
	4H	19.93	21.11	20.38	21.52	21.97	16.60	17.77	17.05	18.19	18.64
	6H	20.07	21.15	20.53	21.58	22.04	17.14	18.22	17.60	18.65	19.11
	8H	20.08	21.11	20.56	21.56	22.03	17.42	18.45	17.89	18.89	19.37
	12H	20.07	21.05	20.55	21.49	21.99	17.71	18.69	18.19	19.14	19.64
4H	2H	18.61	19.78	19.06	20.19	20.64	15.35	16.53	15.80	16.94	17.39
	3H	19.83	20.80	20.29	21.26	21.73	16.72	17.69	17.18	18.15	18.62
	4H	20.21	21.08	20.69	21.55	22.06	17.35	18.22	17.83	18.69	19.20
	6H	20.43	21.19	20.93	21.68	22.21	18.02	18.78	18.53	19.28	19.81
	8H	20.46	21.17	20.97	21.67	22.21	18.36	19.07	18.88	19.57	20.11
	12H	20.46	21.10	21.00	21.63	22.17	18.74	19.37	19.27	19.91	20.45
8H	4H	20.23	20.94	20.74	21.44	21.97	17.57	18.27	18.08	18.77	19.31
	6H	20.50	21.09	21.05	21.63	22.18	18.35	18.94	18.90	19.48	20.03
	8H	20.57	21.10	21.13	21.66	22.21	18.79	19.32	19.35	19.88	20.43
	12H	20.61	21.07	21.16	21.62	22.25	19.29	19.76	19.85	20.30	20.93
12H	4H	20.21	20.85	20.74	21.38	21.92	17.57	18.21	18.11	18.74	19.28
	6H	20.50	21.02	21.06	21.59	22.14	18.38	18.91	18.94	19.47	20.03
	8H	20.60	21.07	21.16	21.61	22.24	18.88	19.35	19.44	19.89	20.52