

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: P892951

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892951
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-185-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-SC3-ASMF-UNV-CC93-LOW-3500K
Description: Selectable 2FT MICROBAY LINEAR BAY with FROSTED ASYMMETRIC LENS, 90CRI, 3500K CCT, 1 lumen setting
Light Source: -
Ballast/Driver: -

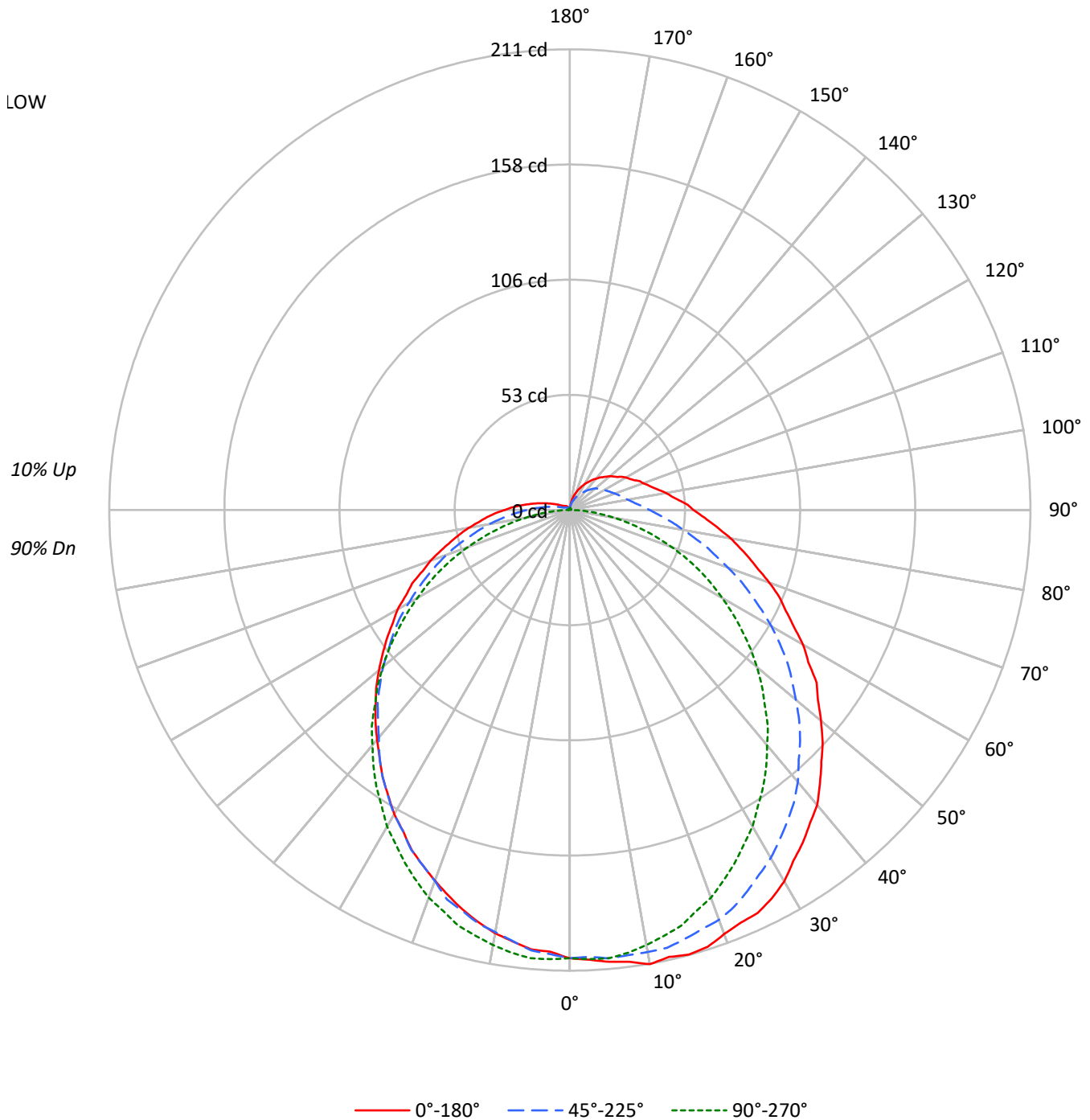
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 706.0 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.21 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 1.98' x H: 0.12')
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

TEST NUMBER: P892951
CATALOG NUMBER: 2MB-SC3-ASMF-UNV-CC93-LOW-3500K

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	50	30	10	0		
RCR																										
0	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	93	93	93	93	93	93	90		
1	105	99	95	90	101	96	92	88	90	87	83	85	82	79	79	77	75	75	75	75	75	75	75	72		
2	95	86	79	72	91	83	76	71	78	72	68	73	69	65	69	65	62	62	62	62	62	62	62	59		
3	86	75	66	60	83	73	65	58	68	62	56	64	59	54	60	56	52	52	52	52	52	52	52	49		
4	79	66	57	50	76	64	56	49	61	53	48	57	51	46	54	49	44	44	44	44	44	44	44	42		
5	72	59	50	43	69	57	49	42	54	47	41	51	45	40	48	43	38	38	38	38	38	38	38	36		
6	67	53	44	37	64	52	43	37	49	41	36	46	40	35	44	38	34	34	34	34	34	34	34	31		
7	62	48	39	33	59	47	38	32	44	37	32	42	36	31	40	34	30	30	30	30	30	30	30	28		
8	57	44	35	29	55	43	35	29	41	33	28	39	32	27	37	31	27	27	27	27	27	27	27	25		
9	54	40	32	26	52	39	31	26	37	30	25	36	29	25	34	28	24	24	24	24	24	24	24	22		
10	50	37	29	24	49	36	29	23	34	28	23	33	27	22	31	26	22	22	22	22	22	22	22	20		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	4204	4204	4204	4204	4204
5°	4246	4101	4069	4029	4129
10°	4343	4008	3884	3827	4047
15°	4394	3916	3710	3660	3950
20°	4403	3828	3514	3464	3847
25°	4468	3698	3307	3301	3766
30°	4480	3574	3112	3124	3668
35°	4453	3438	2905	2954	3576
40°	4475	3299	2694	2763	3485
45°	4440	3137	2485	2617	3427
50°	4450	2969	2284	2452	3380
55°	4519	2823	2054	2287	3347
60°	4555	2642	1819	2110	3363
65°	4660	2448	1580	1936	3401
70°	4964	2260	1295	1769	3464
75°	5448	2122	990	1573	3617
80°	6494	1986	662	1404	4072
85°	8841	1941	331	1225	5198

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 90°
 Luminance: 18349 cd/sqm



TEST NUMBER: P892951

CATALOG NUMBER: 2MB-SC3-ASMF-UNV-CC93-LOW-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.5	2.8
10°-20°	55.8	7.9
20°-30°	84.2	11.9
30°-40°	101.1	14.3
40°-50°	105.2	14.9
50°-60°	97.6	13.8
60°-70°	80.3	11.4
70°-80°	57.9	8.2
80°-90°	36.8	5.2
90°-100°	22.7	3.2
100°-110°	15.1	2.1
110°-120°	10.8	1.5
120°-130°	7.9	1.1
130°-140°	5.4	0.8
140°-150°	3.3	0.5
150°-160°	1.6	0.2
160°-170°	0.6	0.1
170°-180°	0.1	0.0
0°-30°	159.5	22.6
0°-40°	260.6	36.9
0°-60°	463.4	65.6
0°-90°	638.5	90.4
90°-120°	48.6	6.9
90°-150°	65.2	9.2
90°-180°	67.0	9.5
0°-180°	706.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	205	205	205	205	205	
5°	208	206	206	202	202	20
15°	211	203	197	190	190	59
25°	204	192	178	172	172	94
35°	186	174	154	149	149	117
45°	163	149	126	124	126	126
55°	138	122	96	99	102	123
65°	109	91	66	72	80	109
75°	85	65	34	48	56	90
85°	65	44	9	28	38	55
90°	57	37	1	20	30	31
95°	50	31	0	13	23	40
105°	40	24	0	5	12	42
115°	32	20	1	3	6	32
125°	26	17	1	2	3	24
135°	21	13	1	2	2	17
145°	16	9	1	1	2	10
155°	11	6	1	1	1	5
165°	6	4	1	0	1	2
175°	1	2	1	0	0	0
180°	1	1	1	1	1	



TEST NUMBER: P892951

CATALOG NUMBER: 2MB-SC3-ASMF-UNV-CC93-LOW-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	205.3	205.3	205.3	205.3	205.3	205.3	205.3	205.3	205.3
2.5°	206.2	206.8	204.8	206.1	205.9	206.1	203.6	205.7	202.5
5°	207.7	208.0	206.1	206.8	206.1	204.3	202.5	201.8	202.0
7.5°	208.7	210.4	205.6	205.8	204.5	202.7	199.2	199.8	199.4
10°	211.2	209.3	205.6	204.6	202.3	200.3	196.3	196.6	196.8
12.5°	209.7	209.2	205.4	202.1	199.7	198.1	193.9	192.9	193.4
15°	210.8	209.0	203.4	200.7	197.1	194.3	190.1	189.4	189.5
17.5°	209.8	208.3	201.3	197.6	192.6	190.9	187.0	185.7	185.1
20°	206.7	206.0	199.8	193.4	188.9	185.5	180.8	180.1	180.6
22.5°	204.6	202.9	196.7	190.4	183.8	180.8	176.1	176.0	176.1
25°	203.6	201.3	192.5	185.8	178.5	175.9	171.8	170.2	171.6
27.5°	200.5	198.5	188.1	180.8	172.7	169.1	165.7	165.4	165.6
30°	196.4	192.4	184.1	175.2	167.4	163.7	160.9	158.8	160.8
32.5°	190.6	188.3	178.9	169.1	160.5	157.9	155.1	154.9	154.9
35°	186.0	184.4	173.9	163.8	154.5	151.0	149.4	148.7	149.4
37.5°	180.8	178.3	168.7	157.3	147.8	144.9	143.2	142.6	143.1
40°	176.3	171.8	162.5	150.6	140.6	137.9	136.1	136.8	137.3
42.5°	169.6	167.0	155.2	143.8	134.3	131.4	130.0	130.5	131.7
45°	163.0	160.7	149.2	136.8	126.2	124.6	124.5	124.2	125.8
47.5°	157.1	153.7	142.5	129.8	119.4	117.7	117.9	118.9	120.2
50°	150.2	146.2	135.1	122.3	111.9	110.8	111.6	112.3	114.1
52.5°	143.3	140.1	128.3	115.2	104.3	103.5	104.6	107.0	108.0
55°	138.0	132.2	121.7	106.9	96.2	96.3	98.6	99.9	102.2
57.5°	129.5	125.2	114.1	99.5	88.6	89.3	92.4	94.7	96.1
60°	123.4	118.0	106.7	91.6	80.6	81.7	85.2	88.6	91.1
62.5°	115.6	110.9	99.0	83.8	73.2	74.8	78.7	82.8	84.5
65°	109.2	103.9	91.4	76.0	65.5	67.5	72.3	76.8	79.7
67.5°	103.8	98.3	84.6	68.8	57.7	60.6	66.2	70.6	72.9
70°	97.3	90.9	76.9	60.8	49.6	53.0	60.2	65.3	67.9
72.5°	90.5	85.2	70.2	53.4	42.1	46.2	54.1	59.4	61.9
75°	85.1	79.3	64.6	46.0	34.5	39.4	47.9	54.0	56.5
77.5°	79.7	74.3	58.2	39.2	27.7	33.3	42.5	49.2	51.7
80°	74.8	68.7	52.9	33.7	20.6	27.2	37.4	43.9	46.9
82.5°	69.5	64.2	48.3	27.8	14.7	21.7	32.3	39.5	42.0
85°	64.8	59.2	43.9	23.2	9.0	16.7	27.7	35.1	38.1
87.5°	60.5	55.9	39.9	19.7	4.5	12.7	23.3	30.8	34.2
90°	56.6	51.3	36.6	16.5	0.8	9.2	19.7	27.1	29.7
92.5°	54.1	47.8	33.8	14.5	0.5	6.6	16.4	23.7	26.7
95°	50.4	44.9	30.9	12.9	0.5	4.4	13.2	20.3	22.9
97.5°	47.2	42.1	28.9	12.0	0.4	3.0	10.9	17.0	19.7
100°	44.8	39.9	27.0	11.2	0.5	2.2	8.6	14.5	16.8
102.5°	42.0	37.6	25.6	10.7	0.5	1.5	6.8	12.2	14.4
105°	39.5	35.6	24.2	10.2	0.5	1.3	5.4	10.1	12.0
107.5°	37.7	33.6	23.1	9.9	0.5	1.3	4.3	8.2	9.9
110°	35.8	31.9	22.0	9.5	0.5	1.2	3.4	6.8	8.2



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CATALOG NUMBER: 2MB-SC3-ASMF-UNV-CC93-LOW-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	34.6	30.4	20.9	9.2	0.6	1.2	2.8	5.6	6.8
115°	32.4	29.1	20.0	9.1	0.6	1.1	2.6	4.6	5.7
117.5°	30.9	27.8	19.1	8.8	0.6	1.1	2.5	3.8	4.6
120°	29.8	26.4	18.3	8.5	0.6	1.0	2.3	3.4	3.9
122.5°	28.3	25.1	17.6	8.3	0.6	1.0	2.2	3.2	3.5
125°	26.4	23.8	16.7	7.9	0.7	1.0	2.1	3.0	3.3
127.5°	25.2	22.7	16.1	7.4	0.7	0.9	2.0	2.8	3.1
130°	24.1	21.5	15.4	6.9	0.7	0.9	1.8	2.6	2.9
132.5°	22.6	20.2	14.4	6.5	0.7	0.8	1.6	2.4	2.7
135°	21.2	19.2	13.3	6.1	0.7	0.8	1.5	2.3	2.5
137.5°	20.2	18.2	12.4	5.6	0.7	0.7	1.4	2.1	2.3
140°	18.7	17.0	11.4	5.2	0.7	0.7	1.3	2.0	2.1
142.5°	17.6	15.9	10.5	4.8	0.7	0.7	1.2	1.7	2.0
145°	16.2	14.8	9.4	4.4	0.7	0.6	1.1	1.6	1.7
147.5°	15.0	13.5	8.6	4.1	0.7	0.6	1.0	1.4	1.5
150°	13.8	12.1	7.8	3.8	0.7	0.6	0.9	1.2	1.4
152.5°	12.4	10.5	7.0	3.5	0.7	0.6	0.8	1.1	1.2
155°	11.1	9.1	6.3	3.2	0.8	0.6	0.7	0.9	1.1
157.5°	10.0	7.9	5.5	2.9	0.8	0.5	0.7	0.8	0.9
160°	8.6	6.8	4.9	2.6	0.8	0.5	0.6	0.7	0.8
162.5°	7.6	5.6	4.3	2.4	0.8	0.5	0.6	0.6	0.7
165°	6.5	4.7	3.6	2.2	0.8	0.5	0.5	0.5	0.6
167.5°	5.2	3.7	3.0	2.0	0.8	0.5	0.5	0.4	0.5
170°	3.9	2.8	2.5	1.7	0.8	0.5	0.4	0.3	0.4
172.5°	1.7	2.2	2.0	1.5	0.9	0.5	0.4	0.3	0.2
175°	0.9	1.5	1.5	1.3	0.9	0.5	0.4	0.3	0.1
177.5°	0.7	0.9	1.1	1.1	0.9	0.6	0.4	0.2	0.1
180°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6



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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	15.32	16.80	15.83	17.30	17.85	14.20	15.68	14.70	16.18	16.72
	3H	17.41	18.76	17.93	19.27	19.86	16.04	17.38	16.56	17.89	18.48
	4H	18.36	19.64	18.90	20.16	20.76	16.76	18.03	17.30	18.56	19.16
	6H	19.28	20.47	19.83	21.01	21.62	17.36	18.55	17.91	19.09	19.70
	8H	19.71	20.85	20.27	21.41	22.03	17.59	18.73	18.16	19.30	19.91
	12H	20.13	21.22	20.70	21.78	22.43	17.80	18.89	18.37	19.44	20.09
4H	2H	15.81	17.08	16.35	17.61	18.21	14.77	16.05	15.31	16.57	17.17
	3H	18.12	19.21	18.67	19.78	20.40	16.80	17.88	17.35	18.45	19.07
	4H	19.24	20.23	19.81	20.81	21.46	17.63	18.62	18.20	19.20	19.85
	6H	20.34	21.22	20.93	21.83	22.49	18.35	19.23	18.94	19.83	20.49
	8H	20.87	21.70	21.47	22.30	22.98	18.64	19.47	19.24	20.07	20.75
	12H	21.40	22.15	22.02	22.78	23.46	18.91	19.66	19.52	20.29	20.97
8H	4H	19.48	20.31	20.08	20.91	21.59	17.97	18.80	18.57	19.40	20.07
	6H	20.77	21.47	21.40	22.11	22.79	18.82	19.52	19.45	20.17	20.85
	8H	21.44	22.07	22.08	22.72	23.42	19.20	19.83	19.84	20.49	21.18
	12H	22.14	22.71	22.79	23.35	24.11	19.56	20.12	20.20	20.76	21.52
12H	4H	19.50	20.25	20.12	20.88	21.56	18.04	18.79	18.66	19.42	20.10
	6H	20.82	21.45	21.46	22.11	22.80	18.93	19.57	19.58	20.22	20.91
	8H	21.56	22.13	22.21	22.77	23.53	19.38	19.94	20.02	20.58	21.34