

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: P892952

Luminaire Tested: 2MB-SC3-ASMF-UNV-CC93-LOW-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892952
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-4000K
Description: Selectable 2FT MICROBAY LINEAR BAY with FROSTED ASYMMETRIC LENS, 90CRI, 4000K CCT, 1 lumen setting
Light Source: -
Ballast/Driver: -

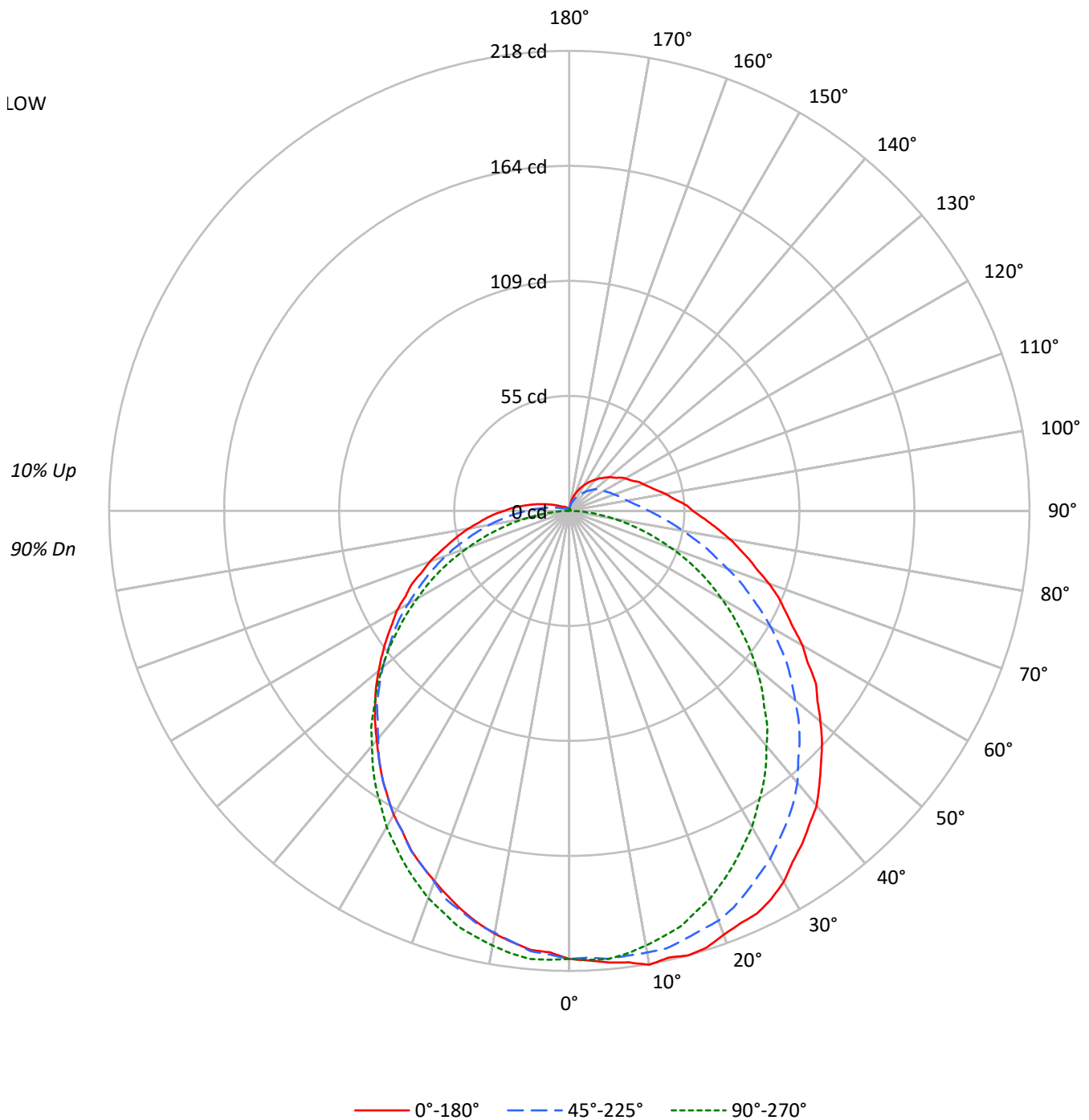
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 730.0 lumens
Efficiency: N/A
Efficacy: 105.8 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

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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	117	117	117	117	113	113	113	113	106	106	106	99	99	99	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	72
2	95	86	79	72	91	83	76	71	78	72	68	73	69	65	69	65	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	49
4	79	66	57	50	76	64	56	49	61	53	48	57	51	46	54	49	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	36
6	67	53	44	37	64	52	43	37	49	41	36	46	40	35	44	38	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	28
8	57	44	35	29	55	43	35	29	41	33	28	39	32	27	37	31	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	22
10	50	37	29	24	49	36	29	23	34	28	23	33	27	22	31	26	22	22	22	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	4347	4347	4347	4347	4347
5°	4391	4240	4207	4167	4268
10°	4491	4143	4015	3957	4185
15°	4544	4049	3837	3785	4086
20°	4552	3958	3633	3583	3977
25°	4620	3825	3420	3412	3893
30°	4633	3696	3217	3230	3794
35°	4606	3555	3005	3055	3698
40°	4628	3413	2784	2858	3602
45°	4592	3244	2570	2708	3541
50°	4601	3070	2361	2536	3493
55°	4673	2918	2124	2364	3458
60°	4710	2732	1879	2182	3477
65°	4822	2531	1633	2000	3516
70°	5132	2337	1339	1828	3581
75°	5634	2194	1025	1629	3739
80°	6720	2054	685	1449	4211
85°	9141	2007	343	1269	5376

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 90°
 Luminance: 18965 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.1	2.8
10°-20°	57.7	7.9
20°-30°	87.1	11.9
30°-40°	104.5	14.3
40°-50°	108.8	14.9
50°-60°	100.9	13.8
60°-70°	83.1	11.4
70°-80°	59.9	8.2
80°-90°	38.0	5.2
90°-100°	23.5	3.2
100°-110°	15.6	2.1
110°-120°	11.1	1.5
120°-130°	8.2	1.1
130°-140°	5.6	0.8
140°-150°	3.4	0.5
150°-160°	1.7	0.2
160°-170°	0.6	0.1
170°-180°	0.1	0.0
0°-30°	165.0	22.6
0°-40°	269.5	36.9
0°-60°	479.1	65.6
0°-90°	660.2	90.4
90°-120°	50.2	6.9
90°-150°	67.4	9.2
90°-180°	70.0	9.6
0°-180°	730.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	212	212	212	212	212	
5°	215	213	213	209	209	21
15°	218	210	204	197	196	61
25°	210	199	185	178	177	97
35°	192	180	160	154	154	121
45°	169	154	130	129	130	130
55°	143	126	100	102	106	127
65°	113	94	68	75	82	112
75°	88	67	36	50	58	93
85°	67	45	9	29	39	57
90°	58	38	1	20	31	32
95°	52	32	0	14	24	41
105°	41	25	0	6	12	44
115°	34	21	1	3	6	34
125°	27	17	1	2	3	25
135°	22	14	1	2	2	17
145°	17	10	1	1	2	11
155°	12	6	1	1	1	5
165°	7	4	1	0	1	2
175°	1	2	1	0	0	0
180°	1	1	1	1	1	



TEST NUMBER: P892952

CATALOG NUMBER: 2MB-SC3-ASMF-UNV-CC93-LOW-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	212.3	212.3	212.3	212.3	212.3	212.3	212.3	212.3	212.3
2.5°	213.2	213.8	211.8	213.1	212.9	213.1	210.5	212.6	209.4
5°	214.8	215.1	213.1	213.8	213.1	211.3	209.4	208.6	208.8
7.5°	215.8	217.5	212.5	212.8	211.5	209.6	206.0	206.6	206.2
10°	218.4	216.5	212.5	211.6	209.1	207.1	203.0	203.3	203.5
12.5°	216.8	216.4	212.4	208.9	206.5	204.8	200.5	199.5	200.0
15°	218.0	216.1	210.3	207.5	203.8	200.9	196.6	195.9	196.0
17.5°	216.9	215.4	208.2	204.4	199.2	197.4	193.3	192.0	191.4
20°	213.7	213.0	206.6	200.0	195.3	191.8	187.0	186.2	186.7
22.5°	211.6	209.8	203.4	196.8	190.0	187.0	182.1	182.0	182.1
25°	210.5	208.2	199.1	192.2	184.6	181.9	177.6	176.0	177.4
27.5°	207.3	205.2	194.5	187.0	178.6	174.9	171.3	171.0	171.2
30°	203.1	198.9	190.4	181.1	173.0	169.2	166.4	164.2	166.3
32.5°	197.0	194.7	184.9	174.9	165.9	163.3	160.4	160.2	160.2
35°	192.4	190.7	179.8	169.3	159.8	156.2	154.5	153.7	154.5
37.5°	187.0	184.4	174.4	162.6	152.9	149.8	148.1	147.5	148.0
40°	182.3	177.6	168.1	155.7	145.3	142.6	140.8	141.4	141.9
42.5°	175.4	172.7	160.5	148.7	138.9	135.9	134.4	134.9	136.2
45°	168.6	166.1	154.3	141.4	130.5	128.9	128.8	128.5	130.0
47.5°	162.4	158.9	147.4	134.2	123.5	121.7	121.9	122.9	124.3
50°	155.3	151.2	139.7	126.4	115.7	114.5	115.4	116.1	117.9
52.5°	148.2	144.9	132.7	119.1	107.9	107.0	108.2	110.6	111.7
55°	142.7	136.7	125.8	110.5	99.5	99.6	101.9	103.3	105.6
57.5°	133.9	129.4	117.9	102.9	91.6	92.4	95.5	97.9	99.4
60°	127.6	122.0	110.3	94.7	83.3	84.5	88.1	91.6	94.2
62.5°	119.5	114.7	102.3	86.6	75.7	77.4	81.4	85.6	87.4
65°	113.0	107.4	94.5	78.6	67.7	69.7	74.7	79.4	82.4
67.5°	107.3	101.6	87.5	71.1	59.7	62.6	68.5	73.0	75.4
70°	100.6	94.0	79.5	62.8	51.3	54.8	62.2	67.5	70.2
72.5°	93.5	88.1	72.6	55.2	43.5	47.8	55.9	61.5	64.0
75°	88.0	82.0	66.8	47.6	35.7	40.8	49.6	55.8	58.4
77.5°	82.4	76.9	60.2	40.6	28.7	34.4	44.0	50.9	53.5
80°	77.4	71.0	54.7	34.8	21.3	28.1	38.6	45.4	48.5
82.5°	71.9	66.4	49.9	28.8	15.2	22.4	33.4	40.9	43.4
85°	67.0	61.3	45.4	24.0	9.3	17.3	28.7	36.3	39.4
87.5°	62.5	57.8	41.3	20.4	4.7	13.2	24.1	31.8	35.4
90°	58.5	53.1	37.8	17.1	0.8	9.6	20.4	28.0	30.7
92.5°	55.9	49.5	34.9	15.0	0.5	6.8	17.0	24.5	27.6
95°	52.1	46.4	32.0	13.4	0.5	4.6	13.7	21.0	23.7
97.5°	48.8	43.5	29.8	12.4	0.4	3.1	11.3	17.6	20.4
100°	46.3	41.3	27.9	11.6	0.5	2.2	8.9	15.0	17.4
102.5°	43.4	38.9	26.4	11.0	0.5	1.6	7.0	12.6	14.9
105°	40.9	36.8	25.1	10.5	0.5	1.4	5.6	10.4	12.4
107.5°	39.0	34.7	23.9	10.2	0.5	1.4	4.5	8.5	10.2
110°	37.1	33.0	22.7	9.9	0.5	1.3	3.5	7.0	8.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	35.8	31.4	21.7	9.6	0.6	1.3	2.9	5.8	7.0
115°	33.5	30.0	20.7	9.4	0.6	1.2	2.7	4.8	5.9
117.5°	32.0	28.8	19.7	9.1	0.6	1.2	2.5	3.9	4.8
120°	30.8	27.3	18.9	8.8	0.6	1.1	2.3	3.5	4.0
122.5°	29.3	25.9	18.2	8.6	0.6	1.1	2.2	3.3	3.6
125°	27.3	24.6	17.3	8.2	0.7	1.1	2.1	3.1	3.4
127.5°	26.0	23.5	16.7	7.6	0.7	1.0	2.0	2.9	3.2
130°	24.9	22.2	15.9	7.1	0.7	1.0	1.9	2.7	3.0
132.5°	23.4	20.9	14.9	6.7	0.7	0.8	1.7	2.4	2.8
135°	21.9	19.9	13.8	6.3	0.7	0.8	1.6	2.3	2.5
137.5°	20.9	18.8	12.8	5.8	0.7	0.7	1.5	2.1	2.3
140°	19.3	17.6	11.8	5.4	0.7	0.7	1.4	2.0	2.1
142.5°	18.2	16.5	10.8	5.0	0.7	0.7	1.3	1.8	2.0
145°	16.8	15.3	9.8	4.6	0.7	0.6	1.2	1.7	1.8
147.5°	15.5	13.9	8.9	4.2	0.7	0.6	1.1	1.5	1.6
150°	14.2	12.5	8.1	3.9	0.7	0.6	1.0	1.3	1.5
152.5°	12.8	10.8	7.2	3.6	0.7	0.6	0.8	1.2	1.3
155°	11.5	9.4	6.5	3.3	0.8	0.6	0.7	1.0	1.2
157.5°	10.3	8.2	5.7	3.0	0.8	0.5	0.7	0.8	1.0
160°	8.9	7.0	5.1	2.7	0.8	0.5	0.6	0.7	0.8
162.5°	7.9	5.8	4.5	2.4	0.8	0.5	0.6	0.6	0.7
165°	6.7	4.9	3.7	2.2	0.8	0.5	0.5	0.5	0.6
167.5°	5.4	3.8	3.1	2.0	0.8	0.5	0.5	0.4	0.5
170°	4.0	2.9	2.5	1.8	0.8	0.5	0.4	0.3	0.4
172.5°	1.8	2.2	2.0	1.6	1.0	0.5	0.4	0.3	0.2
175°	1.0	1.6	1.6	1.4	1.0	0.5	0.4	0.3	0.1
177.5°	0.7	1.0	1.2	1.2	1.0	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	15.44	16.92	15.94	17.42	17.96	14.31	15.79	14.82	16.29	16.84
	3H	17.53	18.88	18.05	19.39	19.97	16.15	17.50	16.67	18.01	18.59
	4H	18.47	19.75	19.01	20.28	20.87	16.87	18.15	17.41	18.68	19.28
	6H	19.39	20.58	19.95	21.12	21.74	17.47	18.66	18.03	19.20	19.82
	8H	19.83	20.96	20.39	21.53	22.14	17.71	18.85	18.27	19.41	20.03
	12H	20.25	21.34	20.82	21.90	22.54	17.91	19.00	18.48	19.56	20.21
4H	2H	15.92	17.20	16.46	17.72	18.32	14.88	16.16	15.42	16.69	17.28
	3H	18.24	19.32	18.79	19.89	20.51	16.91	18.00	17.46	18.57	19.19
	4H	19.35	20.35	19.92	20.92	21.57	17.74	18.74	18.31	19.32	19.97
	6H	20.46	21.34	21.05	21.94	22.60	18.47	19.34	19.06	19.95	20.61
	8H	20.99	21.82	21.59	22.42	23.09	18.76	19.58	19.35	20.19	20.86
	12H	21.52	22.27	22.14	22.90	23.58	19.02	19.77	19.64	20.40	21.08
8H	4H	19.60	20.43	20.20	21.03	21.70	18.09	18.91	18.68	19.52	20.19
	6H	20.88	21.58	21.51	22.23	22.91	18.94	19.64	19.57	20.28	20.96
	8H	21.55	22.19	22.19	22.84	23.53	19.32	19.95	19.96	20.60	21.29
	12H	22.26	22.82	22.90	23.47	24.22	19.67	20.24	20.32	20.88	21.64
12H	4H	19.62	20.37	20.23	21.00	21.68	18.15	18.90	18.77	19.53	20.21
	6H	20.94	21.57	21.58	22.22	22.91	19.05	19.68	19.69	20.34	21.03
	8H	21.68	22.24	22.32	22.88	23.64	19.49	20.06	20.14	20.70	21.46