

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: P892953

Luminaire Tested: 2MB-SC3-ASMF-UNV-CC93-LOW-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892953
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-5000K
Description: Selectable 2FT MICROBAY LINEAR BAY with FROSTED ASYMMETRIC LENS, 90CRI, 5000K CCT, 1 lumen setting
Light Source: -
Ballast/Driver: -

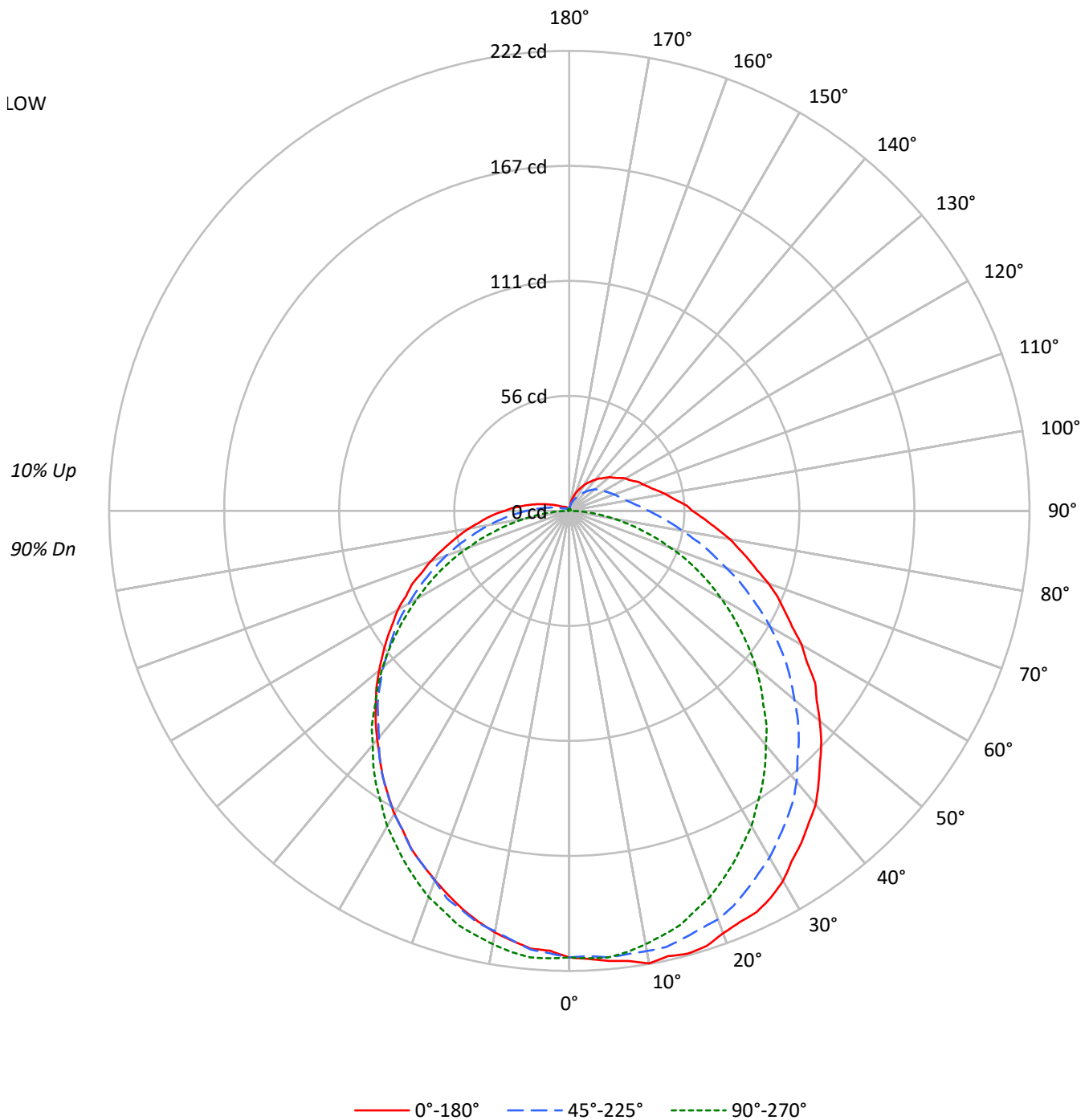
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 741.0 lumens
Efficiency: N/A
Efficacy: 107.4 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				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°	4413	4413	4413	4413	4413
5°	4456	4304	4270	4228	4334
10°	4559	4205	4076	4016	4248
15°	4611	4110	3895	3843	4146
20°	4620	4018	3689	3636	4039
25°	4690	3883	3472	3464	3953
30°	4704	3751	3267	3279	3851
35°	4675	3608	3050	3100	3754
40°	4696	3463	2827	2901	3658
45°	4660	3292	2607	2748	3595
50°	4672	3116	2398	2573	3546
55°	4742	2962	2156	2401	3510
60°	4780	2774	1909	2214	3529
65°	4894	2568	1659	2032	3567
70°	5214	2372	1358	1855	3632
75°	5717	2227	1039	1652	3797
80°	6824	2084	697	1472	4272
85°	9278	2038	350	1287	5458

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 90°
 Luminance: 19257 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.5	2.8
10°-20°	58.6	7.9
20°-30°	88.4	11.9
30°-40°	106.1	14.3
40°-50°	110.4	14.9
50°-60°	102.4	13.8
60°-70°	84.3	11.4
70°-80°	60.8	8.2
80°-90°	38.6	5.2
90°-100°	23.8	3.2
100°-110°	15.9	2.1
110°-120°	11.3	1.5
120°-130°	8.3	1.1
130°-140°	5.7	0.8
140°-150°	3.5	0.5
150°-160°	1.7	0.2
160°-170°	0.6	0.1
170°-180°	0.1	0.0
0°-30°	167.4	22.6
0°-40°	273.5	36.9
0°-60°	486.4	65.6
0°-90°	670.1	90.4
90°-120°	51.0	6.9
90°-150°	68.4	9.2
90°-180°	71.0	9.6
0°-180°	741.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	216	216	216	216	216	
5°	218	216	216	212	212	21
15°	221	214	207	200	199	62
25°	214	202	187	180	180	98
35°	195	182	162	157	157	122
45°	171	157	132	131	132	132
55°	145	128	101	104	107	129
65°	115	96	69	76	84	114
75°	89	68	36	50	59	95
85°	68	46	10	29	40	58
90°	59	38	1	21	31	33
95°	53	32	0	14	24	42
105°	42	25	0	6	13	44
115°	34	21	1	3	6	34
125°	28	18	1	2	3	25
135°	22	14	1	2	3	17
145°	17	10	1	1	2	11
155°	12	7	1	1	1	5
165°	7	4	1	0	1	2
175°	1	2	1	0	0	0
180°	1	1	1	1	1	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	215.5	215.5	215.5	215.5	215.5	215.5	215.5	215.5	215.5
2.5°	216.4	217.0	215.0	216.3	216.1	216.3	213.7	215.8	212.5
5°	218.0	218.3	216.3	217.0	216.3	214.4	212.5	211.8	212.0
7.5°	219.1	220.8	215.7	216.0	214.7	212.7	209.1	209.7	209.3
10°	221.7	219.7	215.7	214.8	212.3	210.2	206.0	206.4	206.6
12.5°	220.1	219.6	215.6	212.1	209.6	207.9	203.6	202.5	203.0
15°	221.2	219.4	213.5	210.7	206.9	203.9	199.6	198.8	198.9
17.5°	220.2	218.7	211.3	207.4	202.2	200.3	196.2	194.9	194.3
20°	216.9	216.2	209.7	203.0	198.3	194.7	189.8	189.0	189.6
22.5°	214.8	212.9	206.5	199.8	192.9	189.8	184.8	184.7	184.8
25°	213.7	211.3	202.1	195.1	187.4	184.6	180.3	178.7	180.1
27.5°	210.5	208.3	197.4	189.8	181.3	177.5	173.9	173.6	173.8
30°	206.2	201.9	193.2	183.8	175.7	171.8	168.9	166.7	168.8
32.5°	200.0	197.6	187.7	177.5	168.4	165.7	162.8	162.6	162.6
35°	195.3	193.5	182.5	171.9	162.2	158.5	156.8	156.0	156.8
37.5°	189.8	187.2	177.1	165.1	155.2	152.1	150.3	149.7	150.2
40°	185.0	180.3	170.6	158.1	147.5	144.7	142.9	143.5	144.1
42.5°	178.0	175.3	162.9	151.0	141.0	137.9	136.4	137.0	138.3
45°	171.1	168.6	156.6	143.5	132.4	130.8	130.7	130.4	132.0
47.5°	164.9	161.3	149.6	136.2	125.3	123.5	123.7	124.8	126.2
50°	157.7	153.5	141.8	128.3	117.5	116.3	117.1	117.9	119.7
52.5°	150.4	147.1	134.7	120.9	109.5	108.6	109.8	112.3	113.4
55°	144.8	138.8	127.7	112.2	101.0	101.1	103.5	104.9	107.2
57.5°	135.9	131.4	119.7	104.4	93.0	93.8	97.0	99.4	100.9
60°	129.5	123.8	112.0	96.1	84.6	85.8	89.4	93.0	95.6
62.5°	121.3	116.4	103.9	87.9	76.8	78.6	82.7	86.9	88.7
65°	114.7	109.1	95.9	79.7	68.8	70.8	75.9	80.6	83.6
67.5°	108.9	103.1	88.8	72.2	60.6	63.6	69.5	74.1	76.5
70°	102.2	95.4	80.7	63.8	52.0	55.6	63.1	68.5	71.2
72.5°	94.9	89.4	73.7	56.0	44.2	48.5	56.8	62.4	65.0
75°	89.3	83.2	67.8	48.3	36.2	41.4	50.3	56.7	59.3
77.5°	83.6	78.0	61.1	41.2	29.1	34.9	44.6	51.6	54.3
80°	78.6	72.1	55.5	35.3	21.7	28.6	39.2	46.1	49.2
82.5°	73.0	67.4	50.6	29.2	15.4	22.7	33.9	41.5	44.1
85°	68.0	62.2	46.1	24.4	9.5	17.6	29.1	36.9	40.0
87.5°	63.5	58.6	41.9	20.7	4.7	13.4	24.5	32.3	35.9
90°	59.4	53.9	38.4	17.3	0.9	9.7	20.7	28.4	31.1
92.5°	56.8	50.2	35.5	15.2	0.5	6.9	17.2	24.9	28.0
95°	52.9	47.1	32.4	13.6	0.5	4.6	13.9	21.3	24.0
97.5°	49.6	44.2	30.3	12.6	0.4	3.1	11.4	17.9	20.7
100°	47.0	41.9	28.3	11.7	0.5	2.3	9.1	15.2	17.7
102.5°	44.1	39.4	26.8	11.2	0.5	1.6	7.1	12.8	15.1
105°	41.5	37.4	25.4	10.7	0.5	1.4	5.7	10.6	12.6
107.5°	39.5	35.2	24.2	10.3	0.5	1.4	4.5	8.6	10.3
110°	37.6	33.5	23.1	10.0	0.5	1.3	3.6	7.1	8.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	36.3	31.9	22.0	9.7	0.6	1.3	2.9	5.9	7.1
115°	34.1	30.5	21.0	9.6	0.6	1.2	2.7	4.8	6.0
117.5°	32.4	29.2	20.0	9.3	0.6	1.2	2.6	4.0	4.8
120°	31.3	27.7	19.2	8.9	0.6	1.1	2.4	3.6	4.1
122.5°	29.7	26.3	18.4	8.7	0.6	1.1	2.3	3.3	3.7
125°	27.7	25.0	17.6	8.3	0.8	1.1	2.2	3.1	3.4
127.5°	26.4	23.8	16.9	7.8	0.8	1.0	2.0	2.9	3.2
130°	25.3	22.5	16.2	7.2	0.8	1.0	1.9	2.7	3.0
132.5°	23.7	21.2	15.1	6.8	0.8	0.9	1.7	2.5	2.8
135°	22.2	20.2	14.0	6.4	0.8	0.9	1.6	2.4	2.6
137.5°	21.2	19.1	13.0	5.9	0.8	0.8	1.5	2.2	2.4
140°	19.6	17.9	12.0	5.5	0.8	0.8	1.4	2.0	2.2
142.5°	18.4	16.7	11.0	5.1	0.8	0.8	1.3	1.8	2.0
145°	17.0	15.5	9.9	4.6	0.8	0.6	1.2	1.7	1.8
147.5°	15.7	14.1	9.1	4.3	0.8	0.6	1.1	1.5	1.6
150°	14.4	12.7	8.2	4.0	0.8	0.6	1.0	1.3	1.5
152.5°	13.0	11.0	7.3	3.7	0.8	0.6	0.9	1.2	1.3
155°	11.6	9.6	6.6	3.3	0.9	0.6	0.8	1.0	1.2
157.5°	10.5	8.3	5.8	3.0	0.9	0.5	0.8	0.9	1.0
160°	9.1	7.1	5.2	2.7	0.9	0.5	0.6	0.8	0.9
162.5°	8.0	5.9	4.5	2.5	0.9	0.5	0.6	0.6	0.8
165°	6.8	5.0	3.8	2.3	0.9	0.5	0.5	0.5	0.6
167.5°	5.5	3.9	3.1	2.0	0.9	0.5	0.5	0.4	0.5
170°	4.1	2.9	2.6	1.8	0.9	0.5	0.4	0.3	0.4
172.5°	1.8	2.3	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°	0.8	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	15.49	16.97	16.00	17.47	18.01	14.37	15.84	14.87	16.35	16.89
	3H	17.58	18.93	18.10	19.44	20.02	16.20	17.55	16.72	18.06	18.65
	4H	18.52	19.80	19.06	20.33	20.93	16.93	18.20	17.47	18.73	19.33
	6H	19.45	20.63	20.00	21.17	21.79	17.53	18.72	18.08	19.26	19.87
	8H	19.88	21.02	20.44	21.58	22.20	17.76	18.90	18.33	19.46	20.08
	12H	20.30	21.39	20.87	21.95	22.60	17.96	19.06	18.54	19.61	20.26
4H	2H	15.97	17.25	16.51	17.78	18.37	14.94	16.21	15.48	16.74	17.34
	3H	18.29	19.38	18.84	19.94	20.56	16.96	18.05	17.52	18.62	19.24
	4H	19.40	20.40	19.97	20.98	21.63	17.79	18.79	18.37	19.37	20.02
	6H	20.51	21.39	21.10	21.99	22.65	18.52	19.40	19.11	20.00	20.66
	8H	21.04	21.87	21.64	22.47	23.14	18.81	19.64	19.41	20.24	20.91
	12H	21.57	22.32	22.19	22.95	23.63	19.07	19.82	19.69	20.45	21.13
8H	4H	19.65	20.48	20.25	21.08	21.76	18.14	18.96	18.74	19.57	20.24
	6H	20.93	21.63	21.56	22.28	22.96	18.99	19.69	19.62	20.34	21.02
	8H	21.60	22.24	22.25	22.89	23.58	19.37	20.00	20.01	20.65	21.35
	12H	22.31	22.87	22.95	23.52	24.27	19.73	20.29	20.37	20.93	21.69
12H	4H	19.67	20.42	20.29	21.05	21.73	18.20	18.96	18.82	19.59	20.27
	6H	20.99	21.62	21.63	22.27	22.97	19.10	19.74	19.74	20.39	21.08
	8H	21.73	22.29	22.37	22.94	23.69	19.54	20.11	20.19	20.75	21.51