

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: P892944

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892944
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-CC83-LOW-5000K
Description: Selectable 2FT MICROBAY LINEAR BAY with FROSTED ASYMMETRIC LENS, 80CRI, 5000K CCT, 1 lumen setting
Light Source: -
Ballast/Driver: -

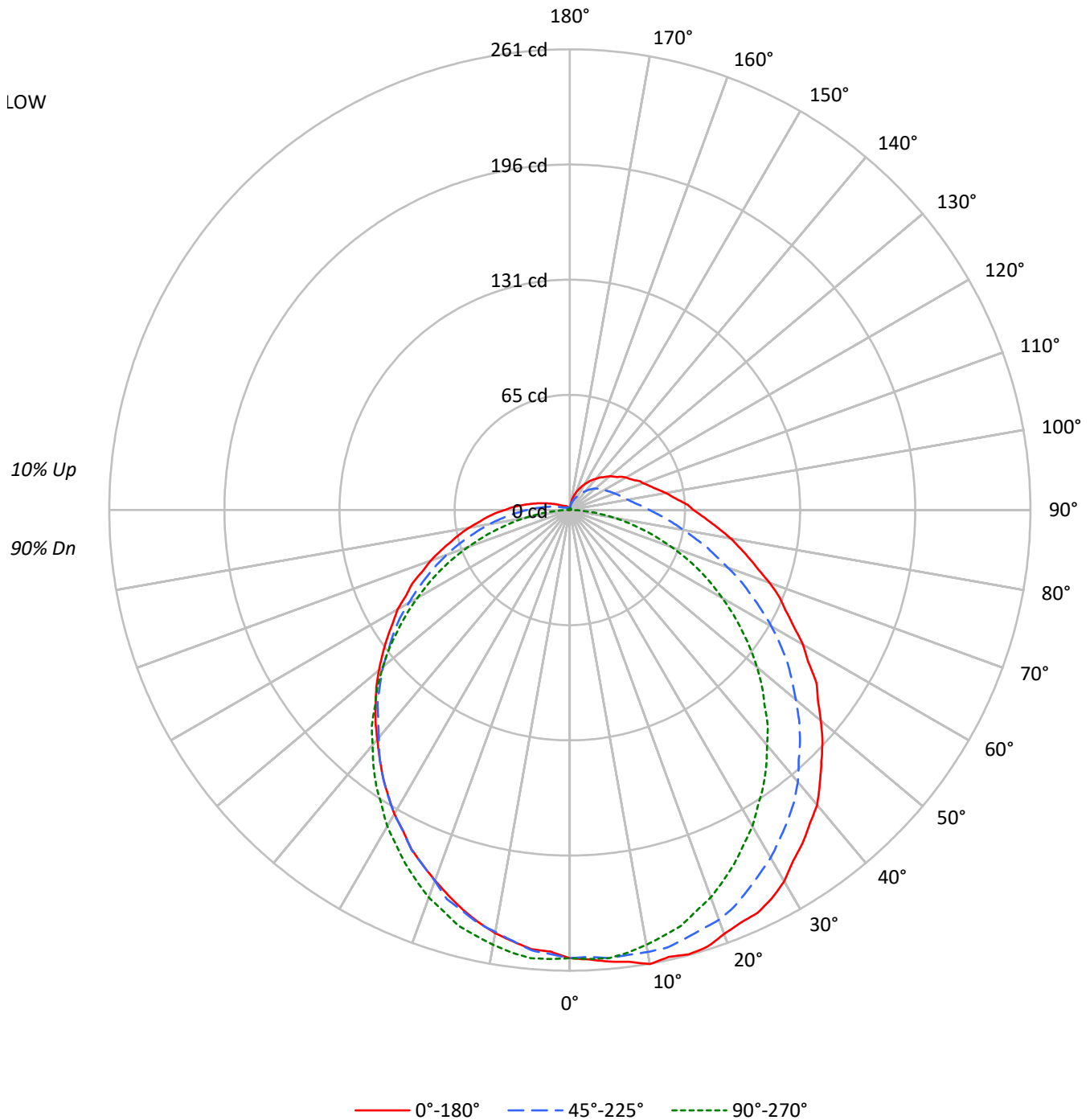
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 873.0 lumens
Efficiency: N/A
Efficacy: 126.5 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: P892944
CATALOG NUMBER: 2MB-SC3-ASMF-UNV-CC83-LOW-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P892944

CATALOG NUMBER: 2MB-SC3-ASMF-UNV-CC83-LOW-5000K

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	60	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°	5199	5199	5199	5199	5199
5°	5249	5070	5030	4982	5104
10°	5371	4956	4802	4731	5005
15°	5432	4842	4590	4526	4886
20°	5445	4734	4346	4284	4756
25°	5526	4572	4091	4081	4655
30°	5541	4419	3847	3861	4535
35°	5508	4253	3593	3652	4421
40°	5534	4080	3331	3417	4308
45°	5491	3879	3072	3238	4235
50°	5501	3672	2825	3032	4180
55°	5586	3489	2541	2828	4136
60°	5633	3266	2249	2610	4157
65°	5765	3026	1953	2394	4203
70°	6142	2795	1601	2187	4280
75°	6735	2625	1226	1948	4469
80°	8039	2456	820	1735	5036
85°	10929	2401	413	1516	6426

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 90°
 Luminance: 22693 cd/sqm



TEST NUMBER: P892944

CATALOG NUMBER: 2MB-SC3-ASMF-UNV-CC83-LOW-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.1	2.8
10°-20°	69.1	7.9
20°-30°	104.1	11.9
30°-40°	125.0	14.3
40°-50°	130.1	14.9
50°-60°	120.6	13.8
60°-70°	99.3	11.4
70°-80°	71.7	8.2
80°-90°	45.5	5.2
90°-100°	28.1	3.2
100°-110°	18.7	2.1
110°-120°	13.3	1.5
120°-130°	9.8	1.1
130°-140°	6.7	0.8
140°-150°	4.1	0.5
150°-160°	2.0	0.2
160°-170°	0.7	0.1
170°-180°	0.1	0.0
0°-30°	197.3	22.6
0°-40°	322.2	36.9
0°-60°	573.0	65.6
0°-90°	789.5	90.4
90°-120°	60.1	6.9
90°-150°	80.6	9.2
90°-180°	84.0	9.6
0°-180°	873.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	254	254	254	254	254	
5°	257	255	255	250	250	25
15°	261	252	244	235	234	73
25°	252	238	221	212	212	116
35°	230	215	191	185	185	144
45°	202	184	156	154	156	156
55°	171	150	119	122	126	152
65°	135	113	81	89	98	135
75°	105	80	43	59	70	112
85°	80	54	11	34	47	68
90°	70	45	1	24	37	39
95°	62	38	1	16	28	50
105°	49	30	1	7	15	52
115°	40	25	1	3	7	40
125°	33	21	1	2	4	30
135°	26	16	1	2	3	21
145°	20	12	1	1	2	13
155°	14	8	1	1	1	6
165°	8	4	1	1	1	2
175°	1	2	1	0	0	0
180°	1	1	1	1	1	



TEST NUMBER: P892944

CATALOG NUMBER: 2MB-SC3-ASMF-UNV-CC83-LOW-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	253.9	253.9	253.9	253.9	253.9	253.9	253.9	253.9	253.9
2.5°	254.9	255.7	253.3	254.8	254.6	254.8	251.8	254.3	250.4
5°	256.8	257.2	254.8	255.7	254.8	252.6	250.4	249.5	249.7
7.5°	258.1	260.1	254.2	254.4	252.9	250.6	246.3	247.1	246.6
10°	261.2	258.9	254.2	253.0	250.1	247.7	242.7	243.1	243.4
12.5°	259.3	258.7	254.0	249.9	246.9	244.9	239.8	238.6	239.2
15°	260.6	258.5	251.5	248.2	243.8	240.2	235.1	234.2	234.4
17.5°	259.4	257.6	249.0	244.4	238.2	236.0	231.2	229.7	228.9
20°	255.6	254.7	247.1	239.2	233.6	229.4	223.6	222.7	223.3
22.5°	253.0	250.9	243.3	235.4	227.3	223.6	217.7	217.6	217.7
25°	251.8	249.0	238.0	229.8	220.8	217.5	212.4	210.5	212.1
27.5°	248.0	245.4	232.6	223.6	213.5	209.1	204.9	204.5	204.8
30°	242.9	237.9	227.6	216.6	206.9	202.4	198.9	196.4	198.8
32.5°	235.6	232.8	221.2	209.1	198.4	195.3	191.8	191.6	191.6
35°	230.1	228.0	215.1	202.5	191.1	186.8	184.7	183.8	184.7
37.5°	223.6	220.5	208.6	194.5	182.8	179.1	177.1	176.3	177.0
40°	218.0	212.4	201.0	186.2	173.8	170.5	168.3	169.1	169.7
42.5°	209.7	206.6	192.0	177.9	166.1	162.5	160.7	161.4	162.9
45°	201.6	198.7	184.5	169.1	156.0	154.1	154.0	153.6	155.5
47.5°	194.2	190.1	176.2	160.5	147.7	145.5	145.7	147.0	148.7
50°	185.7	180.8	167.1	151.2	138.4	137.0	138.0	138.9	141.1
52.5°	177.2	173.3	158.7	142.4	129.0	128.0	129.4	132.3	133.6
55°	170.6	163.5	150.4	132.2	119.0	119.1	121.9	123.5	126.3
57.5°	160.1	154.8	141.1	123.0	109.6	110.5	114.3	117.1	118.8
60°	152.6	145.9	131.9	113.2	99.7	101.1	105.4	109.6	112.6
62.5°	143.0	137.1	122.4	103.6	90.5	92.6	97.4	102.3	104.5
65°	135.1	128.5	113.0	93.9	81.0	83.4	89.4	95.0	98.5
67.5°	128.4	121.5	104.6	85.1	71.4	74.9	81.9	87.3	90.1
70°	120.4	112.4	95.1	75.2	61.3	65.5	74.4	80.7	83.9
72.5°	111.9	105.4	86.8	66.0	52.1	57.1	66.9	73.5	76.6
75°	105.2	98.0	79.9	56.9	42.7	48.8	59.3	66.8	69.8
77.5°	98.5	91.9	72.0	48.5	34.3	41.1	52.6	60.8	64.0
80°	92.6	84.9	65.4	41.6	25.5	33.6	46.2	54.3	58.0
82.5°	86.0	79.3	59.7	34.4	18.2	26.8	40.0	48.9	51.9
85°	80.1	73.3	54.3	28.7	11.2	20.7	34.3	43.4	47.1
87.5°	74.8	69.1	49.4	24.4	5.6	15.7	28.8	38.1	42.3
90°	70.0	63.5	45.2	20.4	1.0	11.4	24.4	33.5	36.7
92.5°	66.9	59.2	41.8	17.9	0.6	8.1	20.3	29.3	33.0
95°	62.3	55.5	38.2	16.0	0.6	5.5	16.4	25.1	28.3
97.5°	58.4	52.1	35.7	14.9	0.5	3.7	13.5	21.1	24.4
100°	55.4	49.4	33.4	13.8	0.6	2.7	10.7	17.9	20.8
102.5°	51.9	46.5	31.6	13.2	0.6	1.9	8.4	15.1	17.8
105°	48.9	44.1	30.0	12.6	0.6	1.7	6.7	12.4	14.9
107.5°	46.6	41.5	28.6	12.2	0.6	1.7	5.3	10.2	12.2
110°	44.3	39.5	27.2	11.8	0.6	1.5	4.2	8.4	10.2



TEST NUMBER: P892944

CATALOG NUMBER: 2MB-SC3-ASMF-UNV-CC83-LOW-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	42.8	37.6	25.9	11.4	0.8	1.5	3.4	7.0	8.4
115°	40.1	35.9	24.8	11.3	0.8	1.4	3.2	5.7	7.1
117.5°	38.2	34.4	23.6	10.9	0.8	1.4	3.0	4.7	5.7
120°	36.8	32.6	22.6	10.5	0.8	1.3	2.8	4.2	4.8
122.5°	35.0	31.0	21.7	10.3	0.8	1.3	2.7	3.9	4.3
125°	32.6	29.5	20.7	9.8	0.9	1.3	2.5	3.7	4.1
127.5°	31.1	28.1	19.9	9.1	0.9	1.1	2.4	3.4	3.8
130°	29.8	26.5	19.0	8.5	0.9	1.1	2.3	3.2	3.6
132.5°	27.9	25.0	17.8	8.0	0.9	1.0	2.0	2.9	3.3
135°	26.2	23.7	16.5	7.5	0.9	1.0	1.9	2.8	3.0
137.5°	25.0	22.5	15.4	7.0	0.9	0.9	1.8	2.5	2.8
140°	23.1	21.1	14.1	6.5	0.9	0.9	1.7	2.4	2.5
142.5°	21.7	19.7	12.9	6.0	0.9	0.9	1.5	2.2	2.4
145°	20.1	18.3	11.7	5.5	0.9	0.8	1.4	2.0	2.2
147.5°	18.5	16.6	10.7	5.1	0.9	0.8	1.3	1.8	1.9
150°	17.0	15.0	9.6	4.7	0.9	0.8	1.1	1.5	1.8
152.5°	15.4	12.9	8.6	4.3	0.9	0.8	1.0	1.4	1.5
155°	13.7	11.3	7.7	3.9	1.0	0.8	0.9	1.1	1.4
157.5°	12.3	9.8	6.9	3.6	1.0	0.6	0.9	1.0	1.1
160°	10.7	8.4	6.1	3.2	1.0	0.6	0.8	0.9	1.0
162.5°	9.4	7.0	5.3	2.9	1.0	0.6	0.8	0.8	0.9
165°	8.0	5.8	4.4	2.7	1.0	0.6	0.6	0.6	0.8
167.5°	6.5	4.6	3.7	2.4	1.0	0.6	0.6	0.5	0.6
170°	4.8	3.4	3.0	2.2	1.0	0.6	0.5	0.4	0.5
172.5°	2.2	2.7	2.4	1.9	1.1	0.6	0.5	0.4	0.3
175°	1.1	1.9	1.9	1.7	1.1	0.6	0.5	0.4	0.1
177.5°	0.9	1.1	1.4	1.4	1.1	0.8	0.5	0.3	0.1
180°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8



TEST NUMBER: P892944
 CATALOG NUMBER: 2MB-SC3-ASMF-UNV-CC83-LOW-5000K

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	16.06	17.54	16.57	18.04	18.58	14.94	16.42	15.44	16.92	17.46
	3H	18.15	19.50	18.67	20.01	20.59	16.77	18.12	17.29	18.63	19.22
	4H	19.10	20.37	19.63	20.90	21.50	17.50	18.77	18.04	19.30	19.90
	6H	20.02	21.20	20.57	21.75	22.36	18.10	19.28	18.65	19.83	20.44
	8H	20.45	21.59	21.01	22.15	22.77	18.33	19.47	18.89	20.03	20.65
	12H	20.87	21.96	21.44	22.52	23.17	18.53	19.63	19.10	20.18	20.83
4H	2H	16.54	17.82	17.08	18.35	18.94	15.51	16.78	16.05	17.31	17.91
	3H	18.86	19.95	19.41	20.52	21.13	17.53	18.62	18.09	19.19	19.81
	4H	19.97	20.97	20.54	21.55	22.20	18.36	19.36	18.94	19.94	20.59
	6H	21.08	21.96	21.67	22.56	23.22	19.09	19.97	19.68	20.57	21.23
	8H	21.61	22.44	22.21	23.04	23.71	19.38	20.21	19.98	20.81	21.48
	12H	22.14	22.89	22.76	23.52	24.20	19.64	20.39	20.26	21.02	21.70
8H	4H	20.22	21.05	20.82	21.65	22.33	18.71	19.54	19.31	20.14	20.81
	6H	21.50	22.20	22.13	22.85	23.53	19.56	20.26	20.19	20.91	21.59
	8H	22.17	22.81	22.81	23.46	24.15	19.94	20.57	20.58	21.22	21.92
	12H	22.88	23.44	23.52	24.09	24.84	20.30	20.86	20.94	21.50	22.26
12H	4H	20.24	20.99	20.86	21.62	22.30	18.78	19.53	19.39	20.16	20.84
	6H	21.56	22.19	22.20	22.84	23.54	19.67	20.31	20.31	20.96	21.65
	8H	22.30	22.86	22.94	23.50	24.26	20.12	20.68	20.76	21.32	22.08