

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: P892948

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

Issue Date: 11/11/2024

**Test Information**

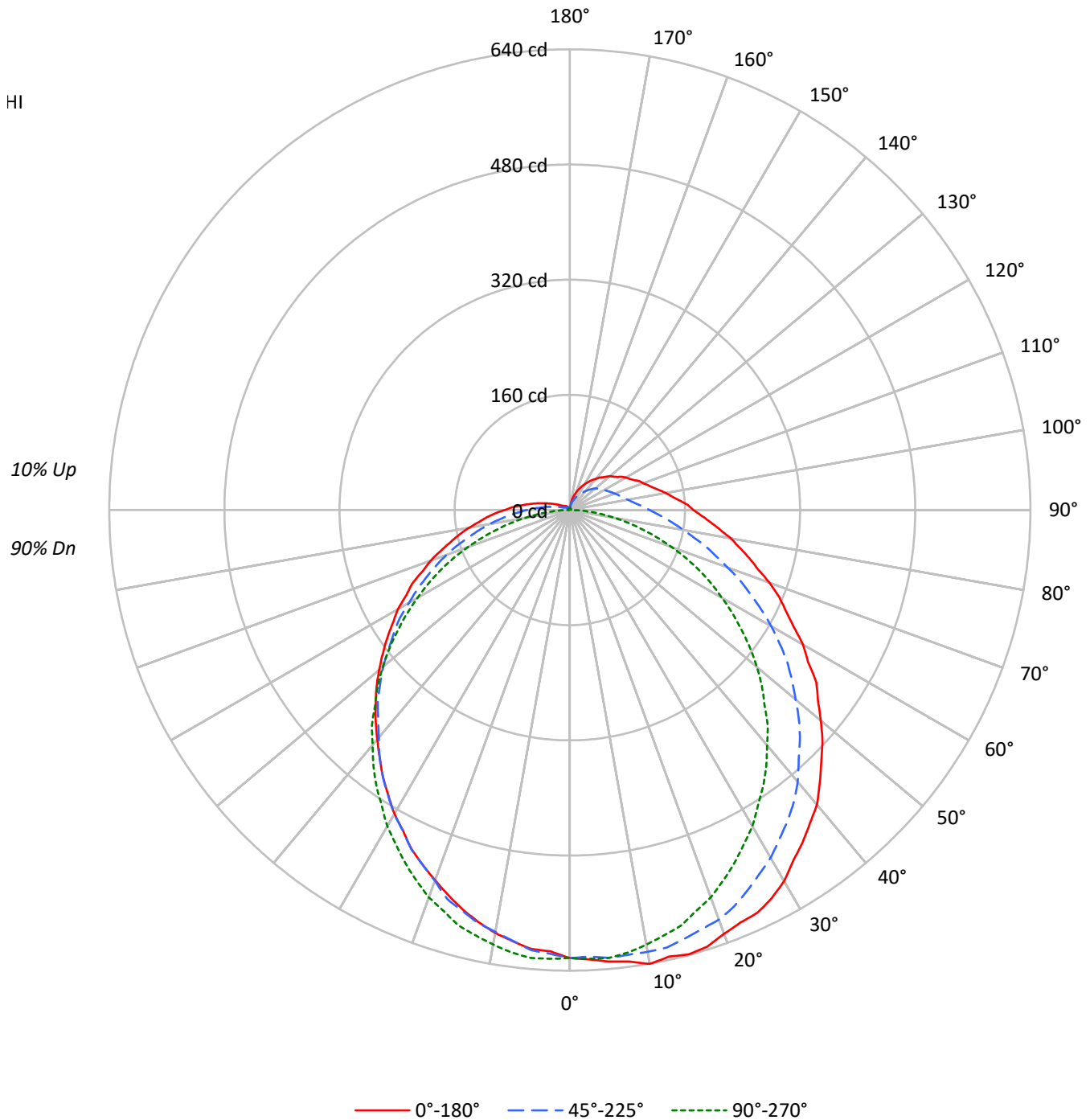
Test Method: LM-79-2019  
Report Number: P892948  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-185-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-SC3-ASMF-UNV-CC93-HI-3500K  
Description: Selectable 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: 2140.0 lumens  
Efficiency: N/A  
Efficacy: 101.9 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): 21  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.996  
Total Harmonic Distortion (THDi): 5.39961257980444  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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CATALOG NUMBER: 2MB-SC3-ASMF-UNV-CC93-HI-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	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°	12745	12745	12745	12745	12745
5°	12870	12428	12331	12211	12514
10°	13165	12147	11771	11600	12268
15°	13319	11869	11248	11097	11976
20°	13345	11603	10653	10501	11660
25°	13543	11210	10027	10004	11412
30°	13582	10833	9432	9468	11119
35°	13499	10424	8807	8953	10839
40°	13566	10002	8165	8378	10563
45°	13461	9507	7532	7936	10383
50°	13489	9000	6923	7433	10245
55°	13698	8555	6226	6931	10141
60°	13810	8009	5512	6397	10188
65°	14129	7418	4789	5867	10305
70°	15050	6851	3924	5361	10494
75°	16518	6432	3002	4773	10961
80°	19699	6019	2012	4254	12346
85°	26797	5889	1009	3714	15759

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 90°  
 Luminance: 55598 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.1	2.8
10°-20°	169.3	7.9
20°-30°	255.2	11.9
30°-40°	306.3	14.3
40°-50°	319.0	14.9
50°-60°	295.7	13.8
60°-70°	243.5	11.4
70°-80°	175.7	8.2
80°-90°	111.5	5.2
90°-100°	68.8	3.2
100°-110°	45.8	2.1
110°-120°	32.6	1.5
120°-130°	23.9	1.1
130°-140°	16.5	0.8
140°-150°	10.0	0.5
150°-160°	5.0	0.2
160°-170°	1.8	0.1
170°-180°	0.3	0.0
0°-30°	483.6	22.6
0°-40°	789.9	36.9
0°-60°	1404.6	65.6
0°-90°	1935.3	90.4
90°-120°	147.2	6.9
90°-150°	197.6	9.2
90°-180°	205.0	9.6
0°-180°	2140.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	622	622	622	622	622	
5°	630	625	625	614	612	60
15°	639	616	598	576	574	180
25°	617	584	541	521	520	284
35°	564	527	468	453	453	353
45°	494	452	382	378	381	382
55°	418	369	292	299	310	372
65°	331	277	199	219	242	330
75°	258	196	105	145	171	273
85°	196	133	27	84	116	167
90°	172	111	2	60	90	95
95°	153	94	2	40	69	121
105°	120	73	2	16	36	128
115°	98	61	2	8	17	98
125°	80	51	2	6	10	73
135°	64	40	2	5	8	50
145°	49	29	2	3	5	31
155°	34	19	2	2	3	16
165°	20	11	2	2	2	6
175°	3	5	3	1	0	1
180°	2	2	2	2	2	



TEST NUMBER: P892948

CATALOG NUMBER: 2MB-SC3-ASM-F-UNV-CC93-HI-3500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	622.4	622.4	622.4	622.4	622.4	622.4	622.4	622.4	622.4
2.5°	624.9	626.8	620.9	624.6	624.0	624.6	617.1	623.4	613.7
5°	629.6	630.5	624.6	626.8	624.6	619.3	613.7	611.5	612.2
7.5°	632.7	637.7	623.1	623.7	619.9	614.3	603.8	605.6	604.4
10°	640.2	634.6	623.1	620.3	613.1	607.2	595.0	596.0	596.6
12.5°	635.5	634.3	622.7	612.5	605.3	600.3	587.9	584.8	586.3
15°	638.9	633.6	616.5	608.4	597.5	588.8	576.4	574.2	574.5
17.5°	635.8	631.5	610.3	599.1	583.8	578.6	566.7	563.0	561.1
20°	626.5	624.3	605.6	586.3	572.6	562.4	548.1	545.9	547.4
22.5°	620.3	615.0	596.3	577.0	557.1	548.1	533.7	533.4	533.7
25°	617.1	610.3	583.5	563.3	541.2	533.1	520.7	516.0	520.0
27.5°	607.8	601.6	570.2	548.1	523.5	512.6	502.3	501.4	502.0
30°	595.4	583.2	558.0	530.9	507.3	496.1	487.7	481.5	487.4
32.5°	577.6	570.8	542.1	512.6	486.4	478.7	470.2	469.6	469.6
35°	563.9	558.9	527.2	496.4	468.4	457.8	452.8	450.6	452.8
37.5°	548.1	540.6	511.3	476.8	448.2	439.1	434.1	432.3	433.8
40°	534.4	520.7	492.7	456.6	426.1	418.0	412.7	414.5	416.1
42.5°	514.1	506.4	470.6	436.0	407.1	398.4	394.0	395.6	399.3
45°	494.2	487.1	452.2	414.5	382.5	377.8	377.5	376.6	381.2
47.5°	476.2	465.9	432.0	393.4	361.9	356.7	357.3	360.4	364.4
50°	455.3	443.2	409.6	370.7	339.2	335.8	338.3	340.5	345.8
52.5°	434.5	424.8	389.0	349.2	316.2	313.7	317.1	324.3	327.4
55°	418.3	400.8	368.8	324.0	291.6	291.9	298.8	302.8	309.7
57.5°	392.4	379.4	345.8	301.6	268.6	270.8	280.1	286.9	291.3
60°	374.1	357.6	323.4	277.6	244.3	247.7	258.3	268.6	276.0
62.5°	350.4	336.1	300.0	254.0	221.9	226.9	238.7	250.8	256.1
65°	331.1	315.0	277.0	230.3	198.6	204.5	219.1	232.8	241.5
67.5°	314.6	297.8	256.4	208.5	174.9	183.6	200.7	214.1	221.0
70°	295.0	275.4	233.1	184.2	150.3	160.6	182.4	197.9	205.7
72.5°	274.2	258.3	212.9	161.8	127.6	140.0	164.0	180.2	187.7
75°	258.0	240.3	195.8	139.4	104.6	119.5	145.3	163.7	171.2
77.5°	241.5	225.3	176.5	118.9	84.0	100.8	128.8	149.1	156.9
80°	226.9	208.2	160.3	102.1	62.6	82.5	113.3	133.2	142.2
82.5°	210.7	194.5	146.3	84.3	44.5	65.7	98.0	119.8	127.3
85°	196.4	179.6	133.2	70.3	27.4	50.7	84.0	106.4	115.5
87.5°	183.3	169.3	121.1	59.8	13.7	38.6	70.6	93.4	103.6
90°	171.5	155.6	110.8	50.1	2.5	28.0	59.8	82.2	89.9
92.5°	164.0	145.0	102.4	43.9	1.6	19.9	49.8	71.9	80.9
95°	152.8	136.0	93.7	39.2	1.6	13.4	40.1	61.6	69.4
97.5°	143.2	127.6	87.5	36.4	1.2	9.0	33.0	51.7	59.8
100°	135.7	121.1	81.9	33.9	1.6	6.5	26.1	43.9	51.0
102.5°	127.3	113.9	77.5	32.4	1.6	4.7	20.5	37.0	43.6
105°	119.8	108.0	73.4	30.8	1.6	4.0	16.5	30.5	36.4
107.5°	114.2	101.8	70.0	29.9	1.6	4.0	13.1	24.9	29.9
110°	108.6	96.8	66.6	28.9	1.6	3.7	10.3	20.5	24.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	104.9	92.1	63.5	28.0	1.9	3.7	8.4	17.1	20.5
115°	98.3	88.1	60.7	27.7	1.9	3.4	7.8	14.0	17.4
117.5°	93.7	84.3	57.9	26.8	1.9	3.4	7.5	11.5	14.0
120°	90.3	80.0	55.4	25.8	1.9	3.1	6.8	10.3	11.8
122.5°	85.9	75.9	53.2	25.2	1.9	3.1	6.5	9.6	10.6
125°	80.0	72.2	50.7	24.0	2.2	3.1	6.2	9.0	10.0
127.5°	76.2	68.8	48.9	22.4	2.2	2.8	5.9	8.4	9.3
130°	73.1	65.0	46.7	20.9	2.2	2.8	5.6	7.8	8.7
132.5°	68.5	61.3	43.6	19.6	2.2	2.5	5.0	7.2	8.1
135°	64.1	58.2	40.5	18.4	2.2	2.5	4.7	6.8	7.5
137.5°	61.3	55.1	37.7	17.1	2.2	2.2	4.4	6.2	6.8
140°	56.6	51.7	34.5	15.9	2.2	2.2	4.0	5.9	6.2
142.5°	53.2	48.2	31.7	14.6	2.2	2.2	3.7	5.3	5.9
145°	49.2	44.8	28.6	13.4	2.2	1.9	3.4	5.0	5.3
147.5°	45.4	40.8	26.1	12.4	2.2	1.9	3.1	4.4	4.7
150°	41.7	36.7	23.7	11.5	2.2	1.9	2.8	3.7	4.4
152.5°	37.7	31.7	21.2	10.6	2.2	1.9	2.5	3.4	3.7
155°	33.6	27.7	19.0	9.6	2.5	1.9	2.2	2.8	3.4
157.5°	30.2	24.0	16.8	8.7	2.5	1.6	2.2	2.5	2.8
160°	26.1	20.5	14.9	7.8	2.5	1.6	1.9	2.2	2.5
162.5°	23.0	17.1	13.1	7.2	2.5	1.6	1.9	1.9	2.2
165°	19.6	14.3	10.9	6.5	2.5	1.6	1.6	1.6	1.9
167.5°	15.9	11.2	9.0	5.9	2.5	1.6	1.6	1.2	1.6
170°	11.8	8.4	7.5	5.3	2.5	1.6	1.2	0.9	1.2
172.5°	5.3	6.5	5.9	4.7	2.8	1.6	1.2	0.9	0.6
175°	2.8	4.7	4.7	4.0	2.8	1.6	1.2	0.9	0.3
177.5°	2.2	2.8	3.4	3.4	2.8	1.9	1.2	0.6	0.3
180°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9



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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	19.17	20.65	19.68	21.16	21.70	18.05	19.53	18.56	20.03	20.57
	3H	21.26	22.61	21.78	23.12	23.71	19.89	21.24	20.41	21.75	22.33
	4H	22.21	23.49	22.75	24.01	24.61	20.61	21.89	21.15	22.42	23.01
	6H	23.13	24.32	23.68	24.86	25.47	21.21	22.40	21.76	22.94	23.55
	8H	23.56	24.70	24.13	25.26	25.88	21.45	22.58	22.01	23.15	23.76
	12H	23.98	25.08	24.56	25.63	26.28	21.65	22.74	22.22	23.30	23.94
4H	2H	19.66	20.93	20.20	21.46	22.06	18.62	19.90	19.16	20.43	21.02
	3H	21.97	23.06	22.53	23.63	24.25	20.65	21.74	21.20	22.31	22.92
	4H	23.09	24.08	23.66	24.66	25.31	21.48	22.47	22.05	23.05	23.70
	6H	24.20	25.07	24.79	25.68	26.34	22.20	23.08	22.79	23.68	24.35
	8H	24.72	25.55	25.32	26.15	26.83	22.49	23.32	23.09	23.92	24.60
	12H	25.25	26.01	25.87	26.64	27.32	22.76	23.51	23.38	24.14	24.82
8H	4H	23.34	24.16	23.93	24.77	25.44	21.82	22.65	22.42	23.25	23.93
	6H	24.62	25.32	25.25	25.96	26.64	22.68	23.38	23.30	24.02	24.70
	8H	25.29	25.92	25.93	26.57	27.27	23.05	23.68	23.69	24.34	25.03
	12H	26.00	26.56	26.64	27.20	27.96	23.41	23.97	24.05	24.62	25.37
12H	4H	23.35	24.10	23.97	24.73	25.41	21.89	22.64	22.51	23.27	23.95
	6H	24.67	25.30	25.31	25.96	26.65	22.79	23.42	23.43	24.07	24.77
	8H	25.41	25.98	26.06	26.62	27.38	23.23	23.79	23.87	24.44	25.19