

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: P892950

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892950
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-5000K
Description: Selectable 2FT MICROBAY LINEAR BAY with FROSTED ASYMMETRIC LENS, 90CRI, 5000K CCT, 1 lumen setting
Light Source: -
Ballast/Driver: -

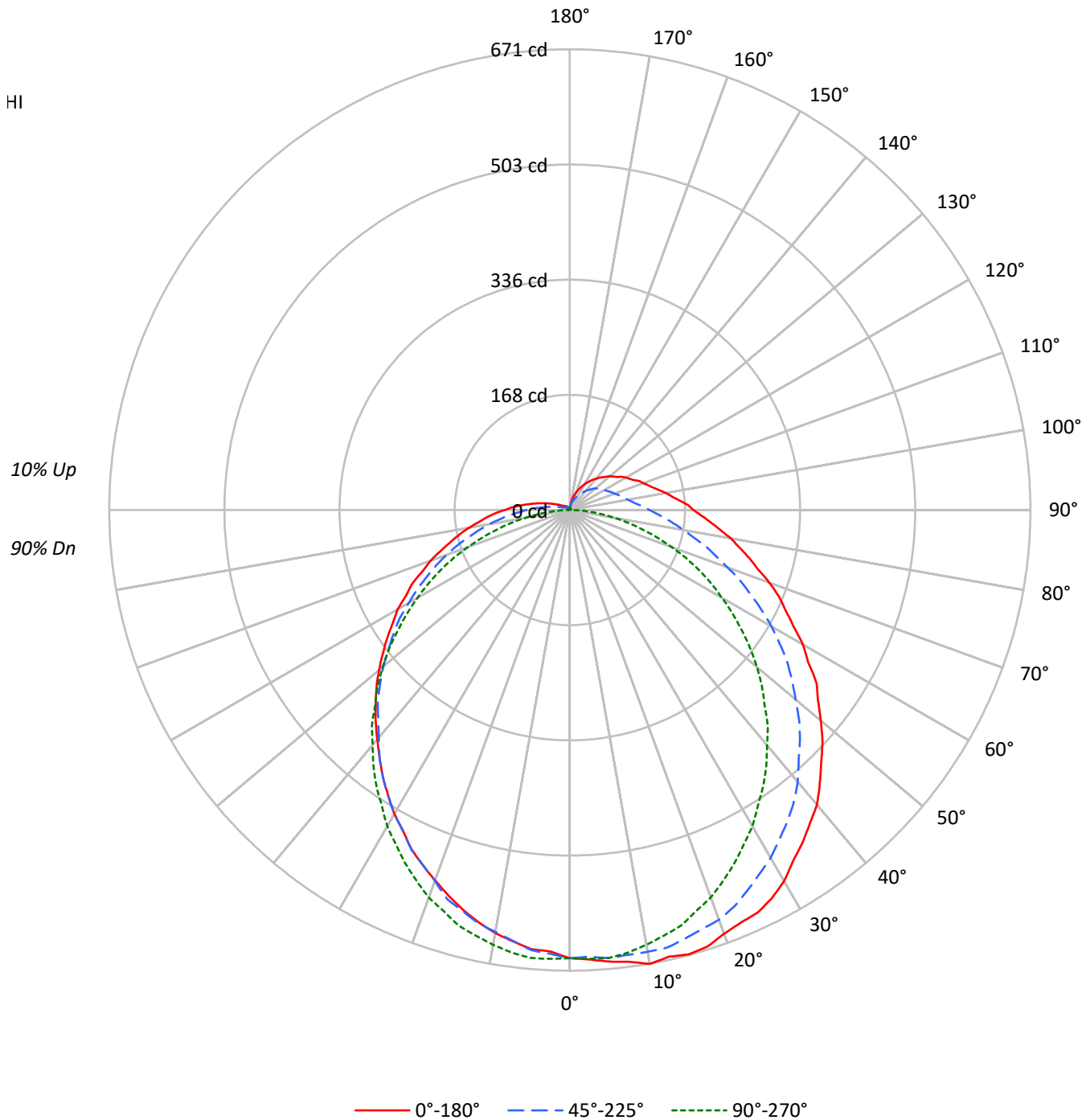
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2244.0 lumens
Efficiency: N/A
Efficacy: 106.9 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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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°	13365	13365	13365	13365	13365
5°	13496	13033	12931	12804	13122
10°	13804	12736	12343	12165	12864
15°	13967	12446	11796	11636	12558
20°	13993	12168	11172	11011	12227
25°	14202	11756	10514	10490	11968
30°	14242	11359	9889	9928	11659
35°	14155	10930	9234	9388	11366
40°	14223	10487	8562	8784	11075
45°	14115	9969	7898	8323	10890
50°	14143	9437	7260	7794	10742
55°	14362	8970	6529	7267	10633
60°	14482	8398	5781	6709	10687
65°	14816	7776	5021	6151	10804
70°	15784	7183	4115	5620	11004
75°	17318	6744	3149	5006	11492
80°	20654	6312	2108	4461	12945
85°	28093	6176	1057	3895	16523

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 90°
 Luminance: 58288 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.9	2.8
10°-20°	177.5	7.9
20°-30°	267.6	11.9
30°-40°	321.2	14.3
40°-50°	334.5	14.9
50°-60°	310.1	13.8
60°-70°	255.4	11.4
70°-80°	184.2	8.2
80°-90°	116.9	5.2
90°-100°	72.1	3.2
100°-110°	48.1	2.1
110°-120°	34.2	1.5
120°-130°	25.1	1.1
130°-140°	17.3	0.8
140°-150°	10.5	0.5
150°-160°	5.2	0.2
160°-170°	1.9	0.1
170°-180°	0.3	0.0
0°-30°	507.1	22.6
0°-40°	828.3	36.9
0°-60°	1472.9	65.6
0°-90°	2029.4	90.4
90°-120°	154.4	6.9
90°-150°	207.2	9.2
90°-180°	215.0	9.6
0°-180°	2244.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	653	653	653	653	653	
5°	660	655	655	644	642	63
15°	670	646	627	604	602	189
25°	647	612	568	546	545	298
35°	591	553	491	475	475	370
45°	518	474	401	396	400	401
55°	439	387	306	313	325	390
65°	347	290	208	230	253	346
75°	270	205	110	152	180	287
85°	206	140	29	88	121	175
90°	180	116	3	63	94	99
95°	160	98	2	42	73	127
105°	126	77	2	17	38	134
115°	103	64	2	8	18	103
125°	84	53	2	6	10	76
135°	67	42	2	5	8	53
145°	52	30	2	4	6	33
155°	35	20	3	2	4	17
165°	21	11	3	2	2	6
175°	3	5	3	1	0	1
180°	2	2	2	2	2	



TEST NUMBER: P892950

CATALOG NUMBER: 2MB-SC3-ASMF-UNV-CC93-HI-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	652.7	652.7	652.7	652.7	652.7	652.7	652.7	652.7	652.7
2.5°	655.3	657.3	651.1	655.0	654.3	655.0	647.1	653.7	643.5
5°	660.2	661.2	655.0	657.3	655.0	649.4	643.5	641.3	641.9
7.5°	663.5	668.7	653.3	654.0	650.1	644.2	633.1	635.1	633.8
10°	671.3	665.4	653.3	650.4	642.9	636.7	624.0	624.9	625.6
12.5°	666.4	665.1	653.0	642.2	634.7	629.5	616.5	613.2	614.8
15°	670.0	664.4	646.5	638.0	626.6	617.4	604.4	602.1	602.4
17.5°	666.7	662.1	640.0	628.2	612.2	606.7	594.3	590.4	588.4
20°	656.9	654.6	635.1	614.8	600.5	589.7	574.7	572.4	574.0
22.5°	650.4	644.9	625.3	605.0	584.2	574.7	559.7	559.4	559.7
25°	647.1	640.0	611.9	590.7	567.5	559.0	546.0	541.1	545.3
27.5°	637.3	630.8	597.9	574.7	548.9	537.5	526.7	525.7	526.4
30°	624.3	611.6	585.1	556.7	531.9	520.2	511.4	504.9	511.1
32.5°	605.7	598.5	568.5	537.5	510.1	501.9	493.1	492.5	492.5
35°	591.3	586.1	552.8	520.5	491.1	480.0	474.8	472.5	474.8
37.5°	574.7	566.9	536.2	500.0	469.9	460.5	455.2	453.3	454.9
40°	560.3	546.0	516.6	478.7	446.8	438.3	432.7	434.7	436.3
42.5°	539.1	531.0	493.4	457.2	426.9	417.7	413.1	414.8	418.7
45°	518.2	510.7	474.2	434.7	401.1	396.2	395.9	394.9	399.8
47.5°	499.3	488.5	453.0	412.5	379.5	374.0	374.6	377.9	382.1
50°	477.4	464.7	429.5	388.7	355.7	352.1	354.7	357.0	362.6
52.5°	455.6	445.5	407.9	366.2	331.6	329.0	332.5	340.0	343.3
55°	438.6	420.3	386.7	339.7	305.8	306.1	313.3	317.5	324.7
57.5°	411.5	397.8	362.6	316.2	281.6	283.9	293.7	300.9	305.5
60°	392.3	375.0	339.1	291.1	256.2	259.8	270.9	281.6	289.5
62.5°	367.5	352.4	314.6	266.3	232.7	237.9	250.3	263.0	268.6
65°	347.2	330.3	290.4	241.5	208.2	214.4	229.7	244.1	253.2
67.5°	329.9	312.3	268.9	218.6	183.4	192.5	210.5	224.5	231.7
70°	309.4	288.8	244.4	193.2	157.6	168.4	191.2	207.6	215.7
72.5°	287.5	270.9	223.2	169.7	133.8	146.9	172.0	189.0	196.8
75°	270.5	251.9	205.3	146.2	109.7	125.3	152.4	171.7	179.5
77.5°	253.2	236.3	185.0	124.7	88.1	105.7	135.1	156.3	164.5
80°	237.9	218.3	168.1	107.0	65.6	86.5	118.8	139.7	149.1
82.5°	220.9	204.0	153.4	88.4	46.7	68.9	102.8	125.6	133.5
85°	205.9	188.3	139.7	73.8	28.7	53.2	88.1	111.6	121.1
87.5°	192.2	177.5	126.9	62.7	14.4	40.5	74.1	97.9	108.7
90°	179.8	163.2	116.2	52.5	2.6	29.4	62.7	86.2	94.3
92.5°	172.0	152.1	107.4	46.0	1.6	20.9	52.2	75.4	84.8
95°	160.2	142.6	98.2	41.1	1.6	14.0	42.1	64.6	72.8
97.5°	150.1	133.8	91.7	38.2	1.3	9.5	34.6	54.2	62.7
100°	142.3	126.9	85.8	35.6	1.6	6.9	27.4	46.0	53.5
102.5°	133.5	119.4	81.3	33.9	1.6	4.9	21.5	38.8	45.7
105°	125.6	113.2	77.0	32.3	1.6	4.2	17.3	32.0	38.2
107.5°	119.8	106.7	73.4	31.3	1.6	4.2	13.7	26.1	31.3
110°	113.9	101.5	69.8	30.3	1.6	3.9	10.8	21.5	26.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	110.0	96.6	66.6	29.4	2.0	3.9	8.8	17.9	21.5
115°	103.1	92.4	63.6	29.0	2.0	3.6	8.2	14.7	18.3
117.5°	98.2	88.4	60.7	28.1	2.0	3.6	7.8	12.1	14.7
120°	94.6	83.9	58.1	27.1	2.0	3.3	7.2	10.8	12.4
122.5°	90.1	79.6	55.8	26.4	2.0	3.3	6.9	10.1	11.1
125°	83.9	75.7	53.2	25.1	2.3	3.3	6.5	9.5	10.4
127.5°	80.0	72.1	51.2	23.5	2.3	2.9	6.2	8.8	9.8
130°	76.7	68.2	49.0	21.9	2.3	2.9	5.9	8.2	9.1
132.5°	71.8	64.3	45.7	20.6	2.3	2.6	5.2	7.5	8.5
135°	67.2	61.0	42.4	19.3	2.3	2.6	4.9	7.2	7.8
137.5°	64.3	57.8	39.5	17.9	2.3	2.3	4.6	6.5	7.2
140°	59.4	54.2	36.2	16.6	2.3	2.3	4.2	6.2	6.5
142.5°	55.8	50.6	33.3	15.3	2.3	2.3	3.9	5.5	6.2
145°	51.6	47.0	30.0	14.0	2.3	2.0	3.6	5.2	5.5
147.5°	47.6	42.8	27.4	13.1	2.3	2.0	3.3	4.6	4.9
150°	43.7	38.5	24.8	12.1	2.3	2.0	2.9	3.9	4.6
152.5°	39.5	33.3	22.2	11.1	2.3	2.0	2.6	3.6	3.9
155°	35.2	29.0	19.9	10.1	2.6	2.0	2.3	2.9	3.6
157.5°	31.7	25.1	17.6	9.1	2.6	1.6	2.3	2.6	2.9
160°	27.4	21.5	15.7	8.2	2.6	1.6	2.0	2.3	2.6
162.5°	24.1	17.9	13.7	7.5	2.6	1.6	2.0	2.0	2.3
165°	20.6	15.0	11.4	6.9	2.6	1.6	1.6	1.6	2.0
167.5°	16.6	11.7	9.5	6.2	2.6	1.6	1.6	1.3	1.6
170°	12.4	8.8	7.8	5.5	2.6	1.6	1.3	1.0	1.3
172.5°	5.5	6.9	6.2	4.9	2.9	1.6	1.3	1.0	0.7
175°	2.9	4.9	4.9	4.2	2.9	1.6	1.3	1.0	0.3
177.5°	2.3	2.9	3.6	3.6	2.9	2.0	1.3	0.7	0.3
180°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0



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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	19.34	20.82	19.85	21.32	21.86	18.21	19.69	18.72	20.20	20.74
	3H	21.43	22.78	21.95	23.29	23.87	20.05	21.40	20.57	21.91	22.49
	4H	22.37	23.65	22.91	24.18	24.78	20.78	22.05	21.31	22.58	23.18
	6H	23.30	24.48	23.85	25.02	25.64	21.38	22.56	21.93	23.10	23.72
	8H	23.73	24.86	24.29	25.43	26.05	21.61	22.75	22.17	23.31	23.93
	12H	24.15	25.24	24.72	25.80	26.45	21.81	22.90	22.38	23.46	24.11
4H	2H	19.82	21.10	20.36	21.63	22.22	18.79	20.06	19.33	20.59	21.19
	3H	22.14	23.23	22.69	23.79	24.41	20.81	21.90	21.37	22.47	23.09
	4H	23.25	24.25	23.82	24.83	25.48	21.64	22.64	22.22	23.22	23.87
	6H	24.36	25.24	24.95	25.84	26.50	22.37	23.24	22.96	23.85	24.51
	8H	24.89	25.72	25.49	26.32	26.99	22.66	23.49	23.26	24.09	24.76
	12H	25.42	26.17	26.04	26.80	27.48	22.92	23.67	23.54	24.30	24.98
8H	4H	23.50	24.33	24.10	24.93	25.60	21.99	22.81	22.58	23.42	24.09
	6H	24.78	25.48	25.41	26.13	26.81	22.84	23.54	23.47	24.19	24.87
	8H	25.45	26.09	26.09	26.74	27.43	23.22	23.85	23.86	24.50	25.20
	12H	26.16	26.72	26.80	27.37	28.12	23.58	24.14	24.22	24.78	25.54
12H	4H	23.52	24.27	24.13	24.90	25.58	22.05	22.80	22.67	23.44	24.12
	6H	24.84	25.47	25.48	26.12	26.82	22.95	23.59	23.59	24.24	24.93
	8H	25.58	26.14	26.22	26.78	27.54	23.40	23.96	24.04	24.60	25.36