

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: P892947

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892947
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-MID-5000K
Description: Selectable 2FT MICROBAY LINEAR BAY with FROSTED ASYMMETRIC LENS, 80CRI, 5000K CCT, 1 lumen setting
Light Source: -
Ballast/Driver: -

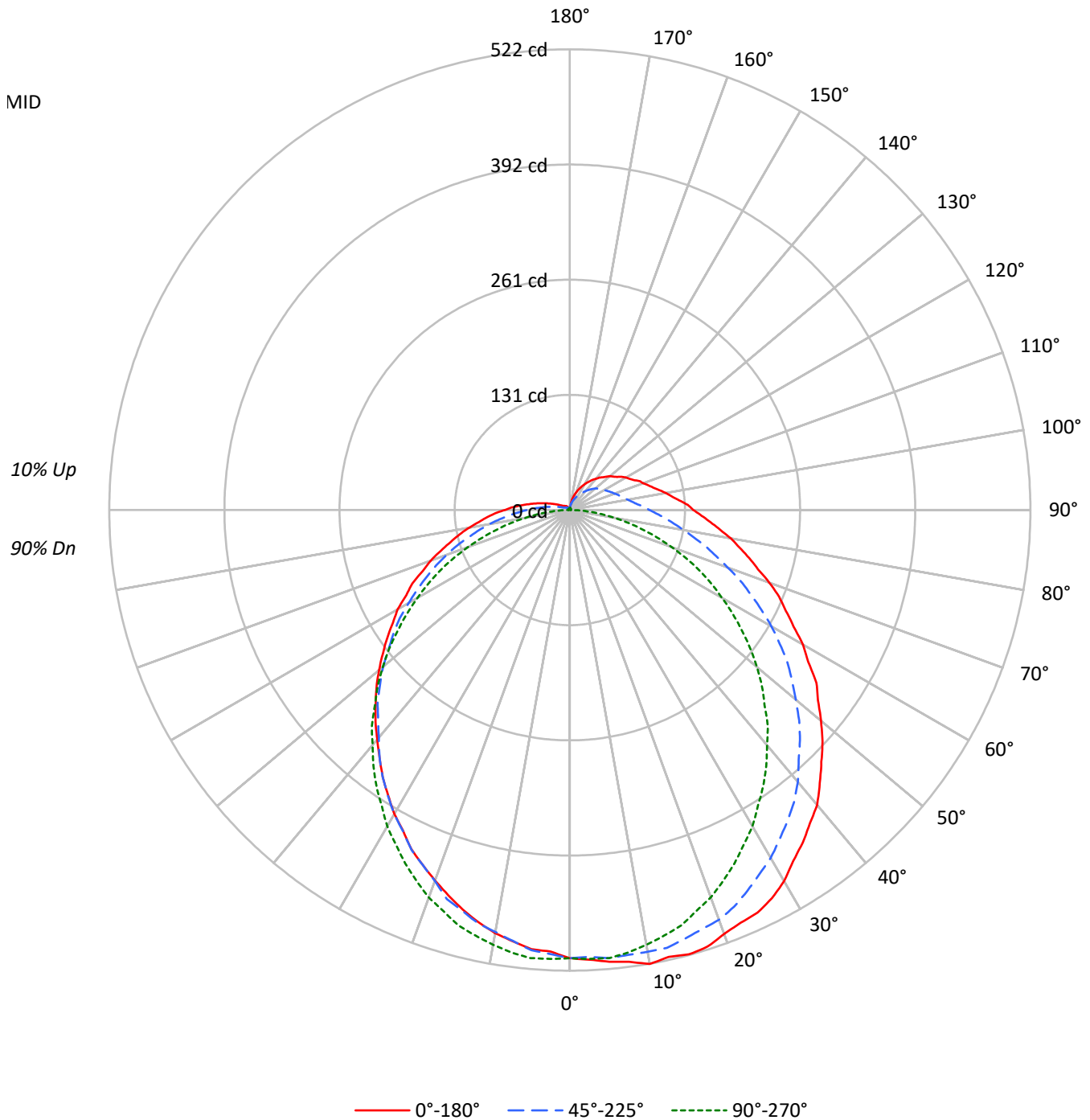
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1746.0 lumens
Efficiency: N/A
Efficacy: 125.6 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): 13.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.9948
Total Harmonic Distortion (THDi): 5.65231997856897
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	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°	10398	10398	10398	10398	10398
5°	10501	10140	10060	9963	10211
10°	10740	9909	9603	9465	10010
15°	10867	9684	9177	9054	9771
20°	10887	9466	8692	8568	9513
25°	11050	9147	8182	8161	9312
30°	11080	8839	7696	7725	9070
35°	11014	8504	7184	7306	8845
40°	11068	8161	6661	6835	8618
45°	10982	7756	6146	6475	8474
50°	11006	7343	5649	6064	8357
55°	11176	6980	5079	5655	8272
60°	11266	6533	4497	5220	8313
65°	11530	6052	3907	4788	8406
70°	12280	5590	3201	4373	8560
75°	13477	5246	2448	3896	8944
80°	16070	4911	1639	3469	10071
85°	21857	4806	821	3033	12853

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 90°
 Luminance: 45353 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.2	2.8
10°-20°	138.1	7.9
20°-30°	208.2	11.9
30°-40°	249.9	14.3
40°-50°	260.3	14.9
50°-60°	241.3	13.8
60°-70°	198.7	11.4
70°-80°	143.3	8.2
80°-90°	91.0	5.2
90°-100°	56.1	3.2
100°-110°	37.4	2.1
110°-120°	26.6	1.5
120°-130°	19.5	1.1
130°-140°	13.4	0.8
140°-150°	8.2	0.5
150°-160°	4.0	0.2
160°-170°	1.5	0.1
170°-180°	0.2	0.0
0°-30°	394.5	22.6
0°-40°	644.5	36.9
0°-60°	1146.0	65.6
0°-90°	1579.0	90.4
90°-120°	120.1	6.9
90°-150°	161.2	9.2
90°-180°	167.0	9.6
0°-180°	1746.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	508	508	508	508	508	
5°	514	510	510	501	500	49
15°	521	503	488	470	469	147
25°	504	476	442	425	424	232
35°	460	430	382	370	370	288
45°	403	369	312	308	311	312
55°	341	301	238	244	253	303
65°	270	226	162	179	197	269
75°	210	160	85	119	140	223
85°	160	109	22	69	94	136
90°	140	90	2	49	73	77
95°	125	76	1	33	57	99
105°	98	60	1	14	30	104
115°	80	50	2	6	14	80
125°	65	41	2	5	8	59
135°	52	33	2	4	6	41
145°	40	23	2	3	4	25
155°	27	16	2	2	3	13
165°	16	9	2	1	2	5
175°	2	4	2	1	0	0
180°	2	2	2	2	2	



TEST NUMBER: P892947

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	507.8	507.8	507.8	507.8	507.8	507.8	507.8	507.8	507.8
2.5°	509.9	511.4	506.6	509.6	509.1	509.6	503.5	508.6	500.7
5°	513.7	514.4	509.6	511.4	509.6	505.3	500.7	498.9	499.5
7.5°	516.2	520.3	508.3	508.9	505.8	501.2	492.6	494.1	493.1
10°	522.3	517.7	508.3	506.1	500.2	495.4	485.5	486.3	486.8
12.5°	518.5	517.5	508.1	499.7	493.9	489.8	479.7	477.1	478.4
15°	521.3	517.0	503.0	496.4	487.5	480.4	470.3	468.5	468.7
17.5°	518.8	515.2	497.9	488.8	476.4	472.0	462.4	459.3	457.8
20°	511.1	509.4	494.1	478.4	467.2	458.8	447.2	445.4	446.6
22.5°	506.1	501.7	486.5	470.8	454.5	447.2	435.5	435.2	435.5
25°	503.5	497.9	476.1	459.6	441.6	435.0	424.8	421.0	424.3
27.5°	495.9	490.8	465.2	447.2	427.1	418.2	409.8	409.1	409.6
30°	485.7	475.8	455.3	433.2	413.9	404.7	397.9	392.8	397.6
32.5°	471.3	465.7	442.3	418.2	396.9	390.5	383.7	383.2	383.2
35°	460.1	456.0	430.1	405.0	382.1	373.5	369.5	367.7	369.5
37.5°	447.2	441.1	417.2	389.0	365.6	358.3	354.2	352.7	354.0
40°	436.0	424.8	402.0	372.5	347.6	341.0	336.7	338.2	339.5
42.5°	419.5	413.1	383.9	355.7	332.1	325.0	321.5	322.7	325.8
45°	403.2	397.4	368.9	338.2	312.1	308.3	308.0	307.2	311.1
47.5°	388.5	380.1	352.4	321.0	295.3	291.0	291.5	294.0	297.3
50°	371.5	361.6	334.2	302.4	276.8	274.0	276.0	277.8	282.1
52.5°	354.5	346.6	317.4	284.9	258.0	255.9	258.7	264.6	267.1
55°	341.3	327.0	300.9	264.3	237.9	238.2	243.8	247.1	252.6
57.5°	320.2	309.5	282.1	246.0	219.1	220.9	228.5	234.1	237.7
60°	305.2	291.8	263.8	226.5	199.3	202.1	210.8	219.1	225.2
62.5°	285.9	274.2	244.8	207.2	181.0	185.1	194.8	204.7	209.0
65°	270.2	257.0	226.0	187.9	162.0	166.8	178.8	189.9	197.0
67.5°	256.7	243.0	209.2	170.1	142.7	149.8	163.8	174.7	180.3
70°	240.7	224.7	190.2	150.3	122.6	131.0	148.8	161.5	167.8
72.5°	223.7	210.8	173.7	132.0	104.1	114.3	133.8	147.0	153.1
75°	210.5	196.0	159.7	113.8	85.3	97.5	118.6	133.6	139.7
77.5°	197.0	183.8	144.0	97.0	68.6	82.3	105.1	121.6	128.0
80°	185.1	169.9	130.8	83.3	51.0	67.3	92.4	108.7	116.0
82.5°	171.9	158.7	119.3	68.8	36.3	53.6	80.0	97.8	103.9
85°	160.2	146.5	108.7	57.4	22.3	41.4	68.6	86.8	94.2
87.5°	149.6	138.1	98.8	48.8	11.2	31.5	57.6	76.2	84.6
90°	139.9	127.0	90.4	40.9	2.0	22.9	48.8	67.0	73.4
92.5°	133.8	118.3	83.5	35.8	1.3	16.3	40.6	58.7	66.0
95°	124.7	111.0	76.4	32.0	1.3	10.9	32.8	50.3	56.6
97.5°	116.8	104.1	71.4	29.7	1.0	7.4	26.9	42.2	48.8
100°	110.7	98.8	66.8	27.7	1.3	5.3	21.3	35.8	41.6
102.5°	103.9	92.9	63.2	26.4	1.3	3.8	16.8	30.2	35.5
105°	97.8	88.1	59.9	25.1	1.3	3.3	13.5	24.9	29.7
107.5°	93.2	83.0	57.1	24.4	1.3	3.3	10.7	20.3	24.4
110°	88.6	79.0	54.3	23.6	1.3	3.0	8.4	16.8	20.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	85.6	75.2	51.8	22.9	1.5	3.0	6.9	14.0	16.8
115°	80.2	71.9	49.5	22.6	1.5	2.8	6.3	11.4	14.2
117.5°	76.4	68.8	47.2	21.8	1.5	2.8	6.1	9.4	11.4
120°	73.6	65.3	45.2	21.1	1.5	2.5	5.6	8.4	9.6
122.5°	70.1	62.0	43.4	20.6	1.5	2.5	5.3	7.9	8.6
125°	65.3	58.9	41.4	19.6	1.8	2.5	5.1	7.4	8.1
127.5°	62.2	56.1	39.9	18.3	1.8	2.3	4.8	6.9	7.6
130°	59.7	53.1	38.1	17.0	1.8	2.3	4.6	6.3	7.1
132.5°	55.9	50.0	35.5	16.0	1.8	2.0	4.1	5.8	6.6
135°	52.3	47.5	33.0	15.0	1.8	2.0	3.8	5.6	6.1
137.5°	50.0	44.9	30.7	14.0	1.8	1.8	3.6	5.1	5.6
140°	46.2	42.2	28.2	12.9	1.8	1.8	3.3	4.8	5.1
142.5°	43.4	39.4	25.9	11.9	1.8	1.8	3.0	4.3	4.8
145°	40.1	36.6	23.4	10.9	1.8	1.5	2.8	4.1	4.3
147.5°	37.1	33.3	21.3	10.2	1.8	1.5	2.5	3.6	3.8
150°	34.0	30.0	19.3	9.4	1.8	1.5	2.3	3.0	3.6
152.5°	30.7	25.9	17.3	8.6	1.8	1.5	2.0	2.8	3.0
155°	27.4	22.6	15.5	7.9	2.0	1.5	1.8	2.3	2.8
157.5°	24.6	19.6	13.7	7.1	2.0	1.3	1.8	2.0	2.3
160°	21.3	16.8	12.2	6.3	2.0	1.3	1.5	1.8	2.0
162.5°	18.8	14.0	10.7	5.8	2.0	1.3	1.5	1.5	1.8
165°	16.0	11.7	8.9	5.3	2.0	1.3	1.3	1.3	1.5
167.5°	12.9	9.1	7.4	4.8	2.0	1.3	1.3	1.0	1.3
170°	9.6	6.9	6.1	4.3	2.0	1.3	1.0	0.8	1.0
172.5°	4.3	5.3	4.8	3.8	2.3	1.3	1.0	0.8	0.5
175°	2.3	3.8	3.8	3.3	2.3	1.3	1.0	0.8	0.3
177.5°	1.8	2.3	2.8	2.8	2.3	1.5	1.0	0.5	0.3
180°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5



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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	18.47	19.95	18.97	20.45	20.99	17.34	18.82	17.85	19.32	19.87
	3H	20.56	21.90	21.08	22.42	23.00	19.18	20.53	19.70	21.04	21.62
	4H	21.50	22.78	22.04	23.31	23.90	19.90	21.18	20.44	21.71	22.30
	6H	22.42	23.61	22.98	24.15	24.76	20.50	21.69	21.06	22.23	22.84
	8H	22.85	23.99	23.42	24.56	25.17	20.74	21.88	21.30	22.44	23.06
	12H	23.28	24.37	23.85	24.93	25.57	20.94	22.03	21.51	22.59	23.24
4H	2H	18.95	20.23	19.49	20.75	21.35	17.91	19.19	18.45	19.72	20.31
	3H	21.27	22.35	21.82	22.92	23.54	19.94	21.03	20.49	21.60	22.22
	4H	22.38	23.38	22.95	23.95	24.60	20.77	21.77	21.34	22.34	22.99
	6H	23.49	24.37	24.08	24.97	25.63	21.49	22.37	22.09	22.98	23.64
	8H	24.02	24.84	24.61	25.45	26.12	21.79	22.61	22.38	23.22	23.89
	12H	24.55	25.30	25.17	25.93	26.61	22.05	22.80	22.67	23.43	24.11
8H	4H	22.63	23.45	23.23	24.06	24.73	21.12	21.94	21.71	22.55	23.22
	6H	23.91	24.61	24.54	25.26	25.94	21.97	22.67	22.60	23.31	23.99
	8H	24.58	25.21	25.22	25.87	26.56	22.35	22.98	22.99	23.63	24.32
	12H	25.29	25.85	25.93	26.49	27.25	22.70	23.27	23.35	23.91	24.67
12H	4H	22.64	23.39	23.26	24.03	24.71	21.18	21.93	21.80	22.56	23.24
	6H	23.96	24.60	24.60	25.25	25.94	22.08	22.71	22.72	23.37	24.06
	8H	24.71	25.27	25.35	25.91	26.67	22.52	23.09	23.17	23.73	24.49