

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: P892946

Luminaire Tested: 2MB-SC3-ASMF-UNV-CC83-MID-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892946
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-4000K
Description: Selectable 2FT MICROBAY LINEAR BAY with FROSTED ASYMMETRIC LENS, 80CRI, 4000K CCT, 1 lumen setting
Light Source: -
Ballast/Driver: -

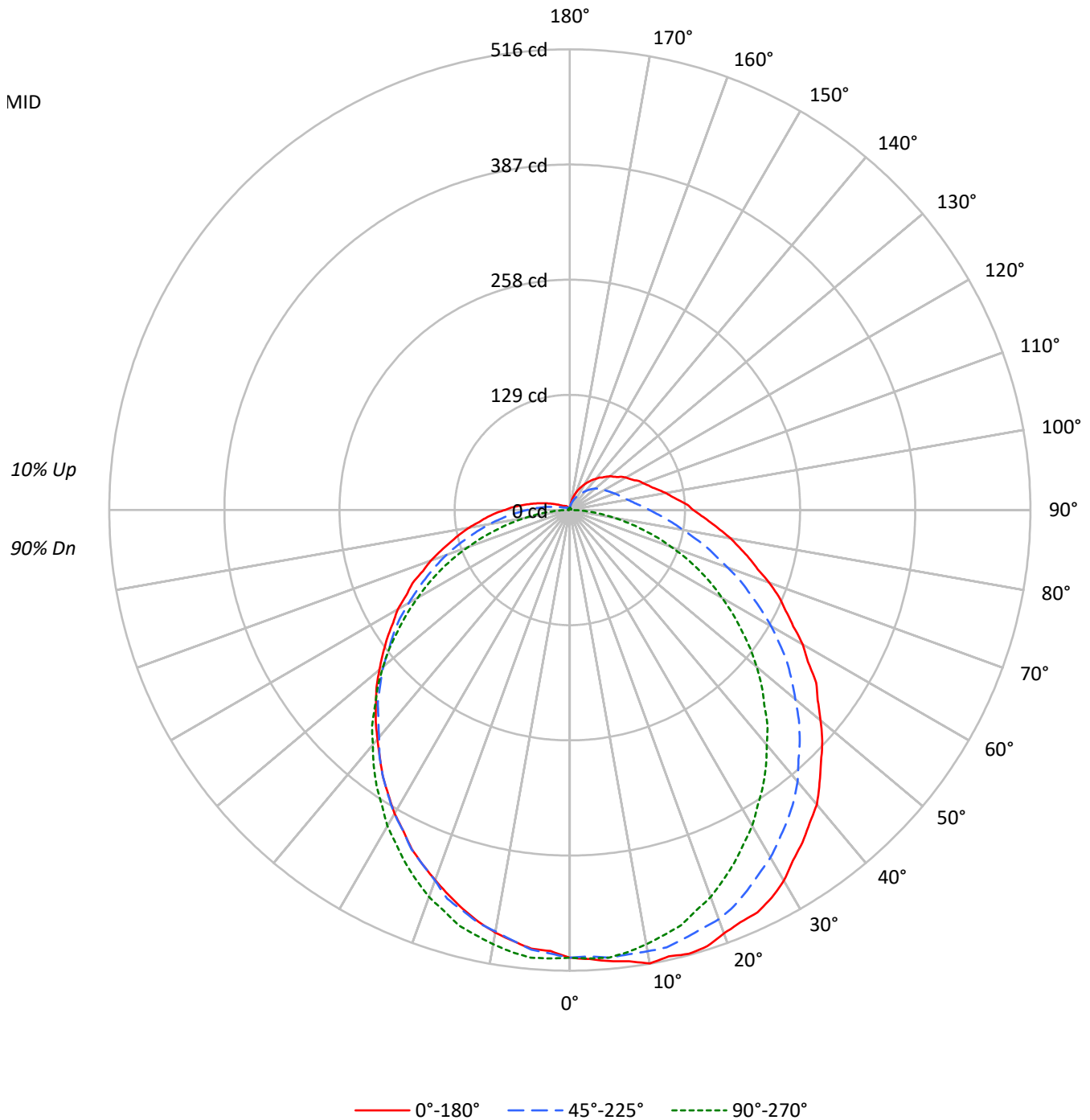
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1724.0 lumens
Efficiency: N/A
Efficacy: 124.0 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°	10267	10267	10267	10267	10267
5°	10368	10013	9934	9837	10082
10°	10605	9785	9483	9346	9883
15°	10729	9562	9062	8939	9648
20°	10751	9348	8582	8459	9394
25°	10912	9032	8078	8059	9196
30°	10941	8727	7599	7628	8956
35°	10875	8397	7094	7213	8733
40°	10928	8057	6577	6750	8509
45°	10843	7659	6067	6393	8365
50°	10867	7249	5578	5988	8251
55°	11035	6892	5015	5583	8170
60°	11126	6451	4440	5153	8210
65°	11385	5974	3858	4726	8304
70°	12126	5520	3162	4318	8453
75°	13304	5180	2417	3846	8829
80°	15871	4848	1620	3428	9949
85°	21585	4744	814	2993	12689

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 90°
 Luminance: 44770 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.6	2.8
10°-20°	136.4	7.9
20°-30°	205.6	11.9
30°-40°	246.8	14.3
40°-50°	257.0	14.9
50°-60°	238.2	13.8
60°-70°	196.2	11.4
70°-80°	141.5	8.2
80°-90°	89.8	5.2
90°-100°	55.4	3.2
100°-110°	36.9	2.1
110°-120°	26.3	1.5
120°-130°	19.3	1.1
130°-140°	13.3	0.8
140°-150°	8.1	0.5
150°-160°	4.0	0.2
160°-170°	1.5	0.1
170°-180°	0.2	0.0
0°-30°	389.6	22.6
0°-40°	636.3	36.9
0°-60°	1131.5	65.6
0°-90°	1559.1	90.4
90°-120°	118.6	6.9
90°-150°	159.2	9.2
90°-180°	165.0	9.6
0°-180°	1724.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	501	501	501	501	501	
5°	507	503	503	494	493	49
15°	515	497	481	464	463	145
25°	497	470	436	420	419	229
35°	454	425	377	365	365	285
45°	398	364	308	304	307	308
55°	337	297	235	241	250	299
65°	267	223	160	176	195	266
75°	208	158	84	117	138	220
85°	158	107	22	68	93	134
90°	138	89	2	48	72	76
95°	123	76	1	32	56	98
105°	96	59	1	13	29	103
115°	79	49	2	6	14	79
125°	64	41	2	5	8	59
135°	52	33	2	4	6	40
145°	40	23	2	3	4	25
155°	27	15	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: P892946

CATALOG NUMBER: 2MB-SC3-ASMF-UNV-CC83-MID-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	501.4	501.4	501.4	501.4	501.4	501.4	501.4	501.4	501.4
2.5°	503.4	504.9	500.2	503.2	502.7	503.2	497.2	502.2	494.4
5°	507.2	508.0	503.2	504.9	503.2	498.9	494.4	492.7	493.2
7.5°	509.7	513.7	501.9	502.4	499.4	494.9	486.4	487.9	486.9
10°	515.7	511.2	501.9	499.7	493.9	489.2	479.4	480.1	480.6
12.5°	512.0	511.0	501.7	493.4	487.6	483.6	473.6	471.1	472.4
15°	514.7	510.5	496.7	490.2	481.4	474.4	464.3	462.6	462.8
17.5°	512.2	508.7	491.7	482.6	470.3	466.1	456.6	453.6	452.0
20°	504.7	502.9	487.9	472.4	461.3	453.0	441.5	439.8	441.0
22.5°	499.7	495.4	480.4	464.8	448.8	441.5	430.0	429.7	430.0
25°	497.2	491.7	470.1	453.8	436.0	429.5	419.5	415.7	419.0
27.5°	489.7	484.6	459.3	441.5	421.7	412.9	404.7	403.9	404.4
30°	479.6	469.8	449.5	427.7	408.7	399.6	392.9	387.9	392.6
32.5°	465.3	459.8	436.8	412.9	391.9	385.6	378.8	378.3	378.3
35°	454.3	450.3	424.7	399.9	377.3	368.8	364.8	363.0	364.8
37.5°	441.5	435.5	411.9	384.1	361.0	353.8	349.8	348.2	349.5
40°	430.5	419.5	396.9	367.8	343.2	336.7	332.5	334.0	335.2
42.5°	414.2	407.9	379.1	351.3	327.9	320.9	317.4	318.7	321.7
45°	398.1	392.4	364.3	334.0	308.1	304.4	304.1	303.4	307.1
47.5°	383.6	375.3	348.0	316.9	291.6	287.3	287.8	290.3	293.6
50°	366.8	357.0	329.9	298.6	273.3	270.5	272.5	274.3	278.5
52.5°	350.0	342.2	313.4	281.3	254.7	252.7	255.5	261.2	263.8
55°	337.0	322.9	297.1	261.0	234.9	235.2	240.7	243.9	249.5
57.5°	316.2	305.6	278.5	242.9	216.4	218.1	225.6	231.2	234.7
60°	301.4	288.1	260.5	223.6	196.8	199.6	208.1	216.4	222.4
62.5°	282.3	270.8	241.7	204.6	178.8	182.8	192.3	202.1	206.3
65°	266.8	253.7	223.1	185.5	160.0	164.7	176.5	187.5	194.6
67.5°	253.5	239.9	206.6	168.0	140.9	147.9	161.7	172.5	178.0
70°	237.7	221.9	187.8	148.4	121.1	129.4	146.9	159.5	165.7
72.5°	220.9	208.1	171.5	130.4	102.8	112.8	132.1	145.2	151.2
75°	207.8	193.6	157.7	112.3	84.2	96.3	117.1	131.9	137.9
77.5°	194.6	181.5	142.2	95.8	67.7	81.2	103.8	120.1	126.4
80°	182.8	167.7	129.1	82.2	50.4	66.4	91.3	107.3	114.6
82.5°	169.7	156.7	117.8	67.9	35.9	52.9	79.0	96.5	102.5
85°	158.2	144.7	107.3	56.7	22.1	40.9	67.7	85.7	93.0
87.5°	147.7	136.4	97.5	48.1	11.0	31.1	56.9	75.2	83.5
90°	138.1	125.4	89.3	40.4	2.0	22.6	48.1	66.2	72.5
92.5°	132.1	116.8	82.5	35.4	1.3	16.0	40.1	57.9	65.2
95°	123.1	109.6	75.5	31.6	1.3	10.8	32.3	49.6	55.9
97.5°	115.3	102.8	70.5	29.3	1.0	7.3	26.6	41.6	48.1
100°	109.3	97.5	65.9	27.3	1.3	5.3	21.1	35.4	41.1
102.5°	102.5	91.8	62.4	26.1	1.3	3.8	16.5	29.8	35.1
105°	96.5	87.0	59.2	24.8	1.3	3.3	13.3	24.6	29.3
107.5°	92.0	82.0	56.4	24.1	1.3	3.3	10.5	20.1	24.1
110°	87.5	78.0	53.7	23.3	1.3	3.0	8.3	16.5	20.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	84.5	74.2	51.1	22.6	1.5	3.0	6.8	13.8	16.5
115°	79.2	71.0	48.9	22.3	1.5	2.8	6.3	11.3	14.0
117.5°	75.5	67.9	46.6	21.6	1.5	2.8	6.0	9.3	11.3
120°	72.7	64.4	44.6	20.8	1.5	2.5	5.5	8.3	9.5
122.5°	69.2	61.2	42.9	20.3	1.5	2.5	5.3	7.8	8.5
125°	64.4	58.2	40.9	19.3	1.8	2.5	5.0	7.3	8.0
127.5°	61.4	55.4	39.4	18.1	1.8	2.3	4.8	6.8	7.5
130°	58.9	52.4	37.6	16.8	1.8	2.3	4.5	6.3	7.0
132.5°	55.2	49.4	35.1	15.8	1.8	2.0	4.0	5.8	6.5
135°	51.6	46.9	32.6	14.8	1.8	2.0	3.8	5.5	6.0
137.5°	49.4	44.4	30.3	13.8	1.8	1.8	3.5	5.0	5.5
140°	45.6	41.6	27.8	12.8	1.8	1.8	3.3	4.8	5.0
142.5°	42.9	38.9	25.6	11.8	1.8	1.8	3.0	4.3	4.8
145°	39.6	36.1	23.1	10.8	1.8	1.5	2.8	4.0	4.3
147.5°	36.6	32.8	21.1	10.0	1.8	1.5	2.5	3.5	3.8
150°	33.6	29.6	19.1	9.3	1.8	1.5	2.3	3.0	3.5
152.5°	30.3	25.6	17.0	8.5	1.8	1.5	2.0	2.8	3.0
155°	27.1	22.3	15.3	7.8	2.0	1.5	1.8	2.3	2.8
157.5°	24.3	19.3	13.5	7.0	2.0	1.3	1.8	2.0	2.3
160°	21.1	16.5	12.0	6.3	2.0	1.3	1.5	1.8	2.0
162.5°	18.6	13.8	10.5	5.8	2.0	1.3	1.5	1.5	1.8
165°	15.8	11.5	8.8	5.3	2.0	1.3	1.3	1.3	1.5
167.5°	12.8	9.0	7.3	4.8	2.0	1.3	1.3	1.0	1.3
170°	9.5	6.8	6.0	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	18.42	19.90	18.93	20.40	20.95	17.30	18.78	17.81	19.28	19.82
	3H	20.51	21.86	21.03	22.37	22.95	19.14	20.48	19.66	21.00	21.58
	4H	21.46	22.74	22.00	23.26	23.86	19.86	21.14	20.40	21.66	22.26
	6H	22.38	23.57	22.93	24.11	24.72	20.46	21.65	21.01	22.19	22.80
	8H	22.81	23.95	23.37	24.51	25.13	20.69	21.83	21.26	22.40	23.01
	12H	23.23	24.32	23.80	24.88	25.53	20.90	21.99	21.47	22.55	23.19
4H	2H	18.90	20.18	19.44	20.71	21.31	17.87	19.15	18.41	19.67	20.27
	3H	21.22	22.31	21.77	22.88	23.50	19.90	20.98	20.45	21.55	22.17
	4H	22.34	23.33	22.91	23.91	24.56	20.73	21.72	21.30	22.30	22.95
	6H	23.44	24.32	24.04	24.93	25.59	21.45	22.33	22.04	22.93	23.59
	8H	23.97	24.80	24.57	25.40	26.08	21.74	22.57	22.34	23.17	23.85
	12H	24.50	25.25	25.12	25.88	26.56	22.01	22.76	22.63	23.39	24.07
8H	4H	22.58	23.41	23.18	24.01	24.69	21.07	21.90	21.67	22.50	23.18
	6H	23.87	24.57	24.50	25.21	25.89	21.92	22.63	22.55	23.27	23.95
	8H	24.54	25.17	25.18	25.82	26.52	22.30	22.93	22.94	23.59	24.28
	12H	25.24	25.81	25.89	26.45	27.21	22.66	23.22	23.30	23.87	24.62
12H	4H	22.60	23.35	23.22	23.98	24.66	21.14	21.89	21.76	22.52	23.20
	6H	23.92	24.55	24.56	25.21	25.90	22.04	22.67	22.68	23.32	24.02
	8H	24.66	25.23	25.31	25.87	26.63	22.48	23.04	23.12	23.68	24.44