

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: P892939

Luminaire Tested: 2MB-SC3-ASMF-UNV-CC83-HI-3500K

Issue Date: 11/11/2024

**Test Information**

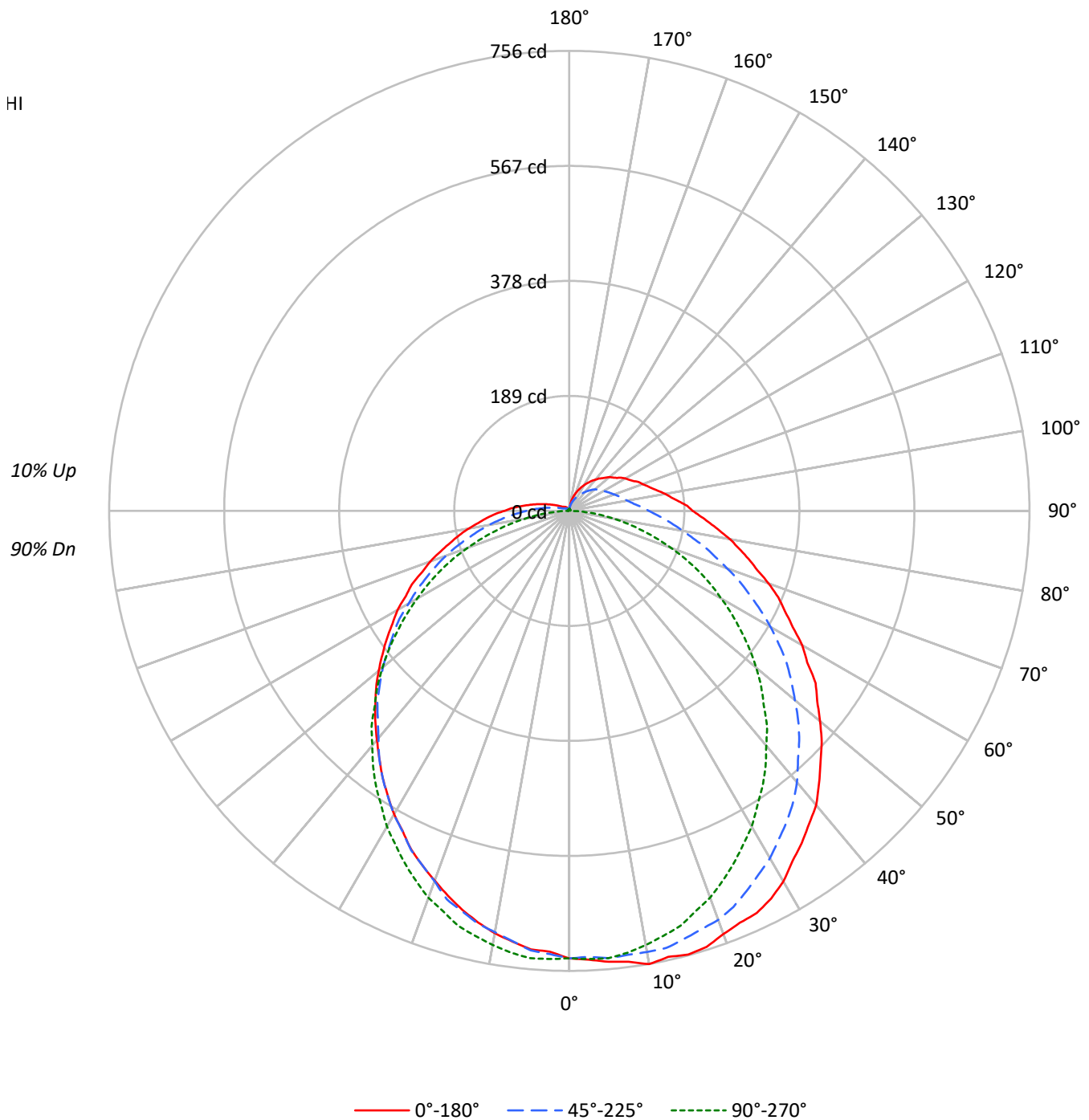
Test Method: LM-79-2019  
Report Number: P892939  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-185-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-SC3-ASMF-UNV-CC83-HI-3500K  
Description: Selectable 2FT MICROBAY LINEAR BAY with FROSTED ASYMMETRIC LENS, 80CRI, 3500K CCT, 1 lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2528.0 lumens  
Efficiency: N/A  
Efficacy: 120.4 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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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.8	2.8
10°-20°	200.0	7.9
20°-30°	301.5	11.9
30°-40°	361.9	14.3
40°-50°	376.8	14.9
50°-60°	349.3	13.8
60°-70°	287.7	11.4
70°-80°	207.5	8.2
80°-90°	131.7	5.2
90°-100°	81.2	3.2
100°-110°	54.1	2.1
110°-120°	38.5	1.5
120°-130°	28.3	1.1
130°-140°	19.4	0.8
140°-150°	11.8	0.5
150°-160°	5.9	0.2
160°-170°	2.1	0.1
170°-180°	0.4	0.0
0°-30°	571.2	22.6
0°-40°	933.1	36.9
0°-60°	1659.3	65.6
0°-90°	2286.2	90.4
90°-120°	173.9	6.9
90°-150°	233.4	9.2
90°-180°	242.0	9.6
0°-180°	2528.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	735	735	735	735	735	
5°	744	738	738	725	723	71
15°	755	728	706	681	679	213
25°	729	689	639	615	614	335
35°	666	623	553	535	535	417
45°	584	534	452	446	450	452
55°	494	436	344	353	366	439
65°	391	327	235	259	285	390
75°	305	231	124	172	202	323
85°	232	157	32	99	136	197
90°	203	131	3	71	106	112
95°	180	111	2	47	82	143
105°	142	87	2	20	43	151
115°	116	72	2	9	21	116
125°	94	60	3	7	12	86
135°	76	48	3	6	9	59
145°	58	34	3	4	6	37
155°	40	22	3	3	4	19
165°	23	13	3	2	2	7
175°	3	6	3	2	0	1
180°	2	2	2	2	2	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	735.3	735.3	735.3	735.3	735.3	735.3	735.3	735.3	735.3
2.5°	738.2	740.4	733.4	737.9	737.1	737.9	729.0	736.4	725.0
5°	743.7	744.8	737.9	740.4	737.9	731.6	725.0	722.4	723.2
7.5°	747.4	753.3	736.0	736.8	732.3	725.7	713.2	715.4	714.0
10°	756.2	749.6	736.0	732.7	724.3	717.3	702.9	704.0	704.8
12.5°	750.7	749.3	735.7	723.5	715.1	709.2	694.5	690.8	692.6
15°	754.8	748.5	728.3	718.7	705.9	695.6	680.9	678.3	678.7
17.5°	751.1	745.9	720.9	707.7	689.7	683.4	669.5	665.1	662.9
20°	740.1	737.5	715.4	692.6	676.5	664.3	647.4	644.8	646.7
22.5°	732.7	726.5	704.4	681.6	658.1	647.4	630.5	630.1	630.5
25°	729.0	720.9	689.3	665.4	639.3	629.8	615.1	609.6	614.3
27.5°	718.0	710.7	673.5	647.4	618.4	605.5	593.4	592.3	593.0
30°	703.3	689.0	659.2	627.2	599.3	586.0	576.1	568.7	575.7
32.5°	682.3	674.3	640.4	605.5	574.6	565.4	555.5	554.8	554.8
35°	666.2	660.3	622.8	586.4	553.3	540.8	534.9	532.3	534.9
37.5°	647.4	638.6	604.0	563.2	529.4	518.7	512.9	510.7	512.5
40°	631.2	615.1	582.0	539.3	503.3	493.7	487.5	489.7	491.5
42.5°	607.3	598.2	555.9	515.1	480.9	470.6	465.4	467.3	471.7
45°	583.8	575.4	534.2	489.7	451.8	446.3	446.0	444.8	450.4
47.5°	562.5	550.4	510.3	464.7	427.6	421.3	422.1	425.7	430.5
50°	537.9	523.5	483.8	437.9	400.7	396.7	399.6	402.2	408.5
52.5°	513.2	501.8	459.6	412.5	373.5	370.6	374.6	383.1	386.8
55°	494.1	473.5	435.7	382.7	344.5	344.8	352.9	357.7	365.8
57.5°	463.6	448.2	408.5	356.2	317.3	319.9	330.9	339.0	344.1
60°	441.9	422.4	382.0	327.9	288.6	292.6	305.1	317.3	326.1
62.5°	414.0	397.1	354.4	300.0	262.1	268.0	282.0	296.3	302.6
65°	391.2	372.1	327.2	272.1	234.6	241.5	258.8	275.0	285.3
67.5°	371.7	351.8	302.9	246.3	206.6	216.9	237.1	252.9	261.0
70°	348.5	325.4	275.4	217.6	177.6	189.7	215.4	233.8	243.0
72.5°	323.9	305.1	251.5	191.2	150.7	165.4	193.7	212.9	221.7
75°	304.8	283.8	231.2	164.7	123.5	141.2	171.7	193.4	202.2
77.5°	285.3	266.2	208.5	140.4	99.3	119.1	152.2	176.1	185.3
80°	268.0	246.0	189.3	120.6	73.9	97.4	133.8	157.4	168.0
82.5°	248.9	229.8	172.8	99.6	52.6	77.6	115.8	141.5	150.4
85°	232.0	212.1	157.4	83.1	32.4	59.9	99.3	125.7	136.4
87.5°	216.5	200.0	143.0	70.6	16.2	45.6	83.5	110.3	122.4
90°	202.6	183.8	130.9	59.2	2.9	33.1	70.6	97.1	106.2
92.5°	193.7	171.3	121.0	51.8	1.8	23.5	58.8	84.9	95.6
95°	180.5	160.7	110.7	46.3	1.8	15.8	47.4	72.8	82.0
97.5°	169.1	150.7	103.3	43.0	1.5	10.7	39.0	61.0	70.6
100°	160.3	143.0	96.7	40.1	1.8	7.7	30.9	51.8	60.3
102.5°	150.4	134.6	91.5	38.2	1.8	5.5	24.3	43.7	51.5
105°	141.5	127.6	86.8	36.4	1.8	4.8	19.5	36.0	43.0
107.5°	134.9	120.2	82.7	35.3	1.8	4.8	15.4	29.4	35.3
110°	128.3	114.3	78.7	34.2	1.8	4.4	12.1	24.3	29.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	123.9	108.8	75.0	33.1	2.2	4.4	9.9	20.2	24.3
115°	116.2	104.0	71.7	32.7	2.2	4.0	9.2	16.5	20.6
117.5°	110.7	99.6	68.4	31.6	2.2	4.0	8.8	13.6	16.5
120°	106.6	94.5	65.4	30.5	2.2	3.7	8.1	12.1	14.0
122.5°	101.5	89.7	62.9	29.8	2.2	3.7	7.7	11.4	12.5
125°	94.5	85.3	59.9	28.3	2.6	3.7	7.4	10.7	11.8
127.5°	90.1	81.2	57.7	26.5	2.6	3.3	7.0	9.9	11.0
130°	86.4	76.8	55.1	24.6	2.6	3.3	6.6	9.2	10.3
132.5°	80.9	72.4	51.5	23.2	2.6	2.9	5.9	8.5	9.6
135°	75.7	68.7	47.8	21.7	2.6	2.9	5.5	8.1	8.8
137.5°	72.4	65.1	44.5	20.2	2.6	2.6	5.1	7.4	8.1
140°	66.9	61.0	40.8	18.7	2.6	2.6	4.8	7.0	7.4
142.5°	62.9	57.0	37.5	17.3	2.6	2.6	4.4	6.2	7.0
145°	58.1	52.9	33.8	15.8	2.6	2.2	4.0	5.9	6.2
147.5°	53.7	48.2	30.9	14.7	2.6	2.2	3.7	5.1	5.5
150°	49.3	43.4	27.9	13.6	2.6	2.2	3.3	4.4	5.1
152.5°	44.5	37.5	25.0	12.5	2.6	2.2	2.9	4.0	4.4
155°	39.7	32.7	22.4	11.4	2.9	2.2	2.6	3.3	4.0
157.5°	35.7	28.3	19.9	10.3	2.9	1.8	2.6	2.9	3.3
160°	30.9	24.3	17.6	9.2	2.9	1.8	2.2	2.6	2.9
162.5°	27.2	20.2	15.4	8.5	2.9	1.8	2.2	2.2	2.6
165°	23.2	16.9	12.9	7.7	2.9	1.8	1.8	1.8	2.2
167.5°	18.7	13.2	10.7	7.0	2.9	1.8	1.8	1.5	1.8
170°	14.0	9.9	8.8	6.2	2.9	1.8	1.5	1.1	1.5
172.5°	6.2	7.7	7.0	5.5	3.3	1.8	1.5	1.1	0.7
175°	3.3	5.5	5.5	4.8	3.3	1.8	1.5	1.1	0.4
177.5°	2.6	3.3	4.0	4.0	3.3	2.2	1.5	0.7	0.4
180°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2



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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	19.75	21.23	20.26	21.73	22.28	18.63	20.11	19.14	20.61	21.15
	3H	21.84	23.19	22.36	23.70	24.29	20.47	21.81	20.99	22.33	22.91
	4H	22.79	24.07	23.33	24.59	25.19	21.19	22.47	21.73	22.99	23.59
	6H	23.71	24.90	24.26	25.44	26.05	21.79	22.98	22.34	23.52	24.13
	8H	24.14	25.28	24.71	25.84	26.46	22.02	23.16	22.59	23.73	24.34
	12H	24.56	25.65	25.13	26.21	26.86	22.23	23.32	22.80	23.88	24.52
4H	2H	20.24	21.51	20.78	22.04	22.64	19.20	20.48	19.74	21.01	21.60
	3H	22.55	23.64	23.10	24.21	24.83	21.23	22.32	21.78	22.88	23.50
	4H	23.67	24.66	24.24	25.24	25.89	22.06	23.05	22.63	23.63	24.28
	6H	24.77	25.65	25.37	26.26	26.92	22.78	23.66	23.37	24.26	24.93
	8H	25.30	26.13	25.90	26.73	27.41	23.07	23.90	23.67	24.50	25.18
	12H	25.83	26.58	26.45	27.21	27.90	23.34	24.09	23.96	24.72	25.40
8H	4H	23.91	24.74	24.51	25.34	26.02	22.40	23.23	23.00	23.83	24.51
	6H	25.20	25.90	25.83	26.54	27.22	23.26	23.96	23.88	24.60	25.28
	8H	25.87	26.50	26.51	27.15	27.85	23.63	24.26	24.27	24.92	25.61
	12H	26.57	27.14	27.22	27.78	28.54	23.99	24.55	24.63	25.20	25.95
12H	4H	23.93	24.68	24.55	25.31	25.99	22.47	23.22	23.09	23.85	24.53
	6H	25.25	25.88	25.89	26.54	27.23	23.37	24.00	24.01	24.65	25.35
	8H	25.99	26.56	26.64	27.20	27.96	23.81	24.37	24.45	25.02	25.77