

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: P892982

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

Issue Date: 11/11/2024

**Test Information**

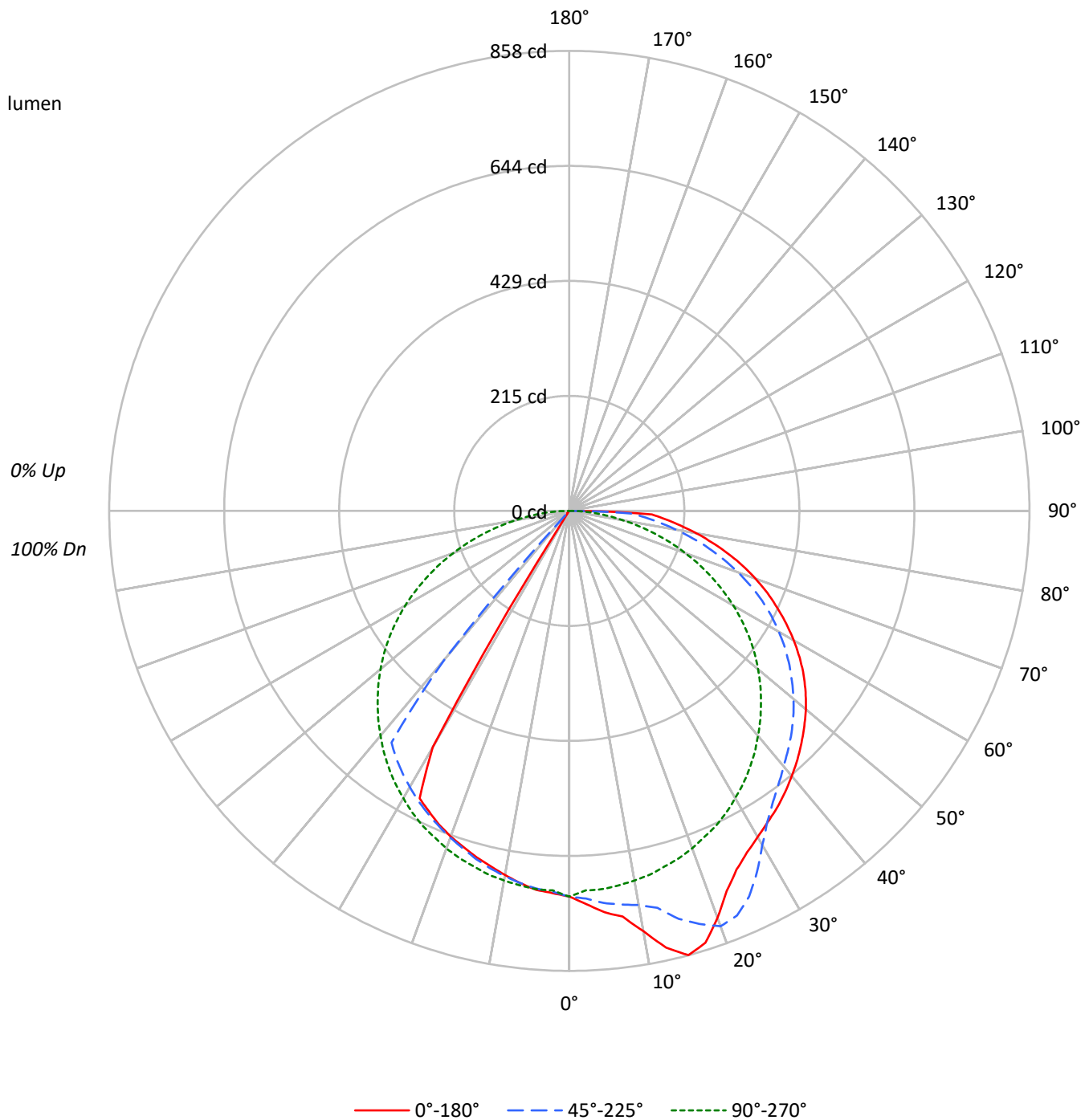
Test Method: LM-79-2019  
Report Number: P892982  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2410-248-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-SC3-ASYMR-UNV-CC83-MID-4000K  
Description: Selectable 2FT MICROBAY LINEAR BAY with ASYMMERIC REFLECTOR, 80CRI, 4000K CCT, MID setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1946.0 lumens  
Efficiency: N/A  
Efficacy: 140.0 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.28 / 1.25  
Luminous Opening: Rectangular (W 0.21' x L: 1.98' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 13.9  
Input Voltage (V):  
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	85	85	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	71	71	71	69
3	90	79	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	61	61	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	53	53	53	50
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	46	46	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	41	41	41	39
7	66	52	44	37	64	51	43	37	50	42	37	48	42	37	47	41	36	36	36	36	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	33	33	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	30	30	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	32	27	27	27	27	26

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	18777	18777	18777	18777	18777
5°	19692	19239	18558	18526	18592
10°	21100	19788	18555	18335	18282
15°	23183	21288	18561	18161	18072
20°	22444	22902	18609	18015	17956
25°	21265	22855	18655	17955	17823
30°	21175	21697	18652	17931	15351
35°	21533	21099	18683	17934	210
40°	22000	21199	18660	12368	140
45°	22600	21629	18660	229	92
50°	23391	22169	18672	167	32
55°	24284	22800	18621	114	18
60°	25252	23575	18453	42	21
65°	26440	24507	18119	49	49
70°	28206	25534	17549	61	61
75°	30877	27175	16785	161	81
80°	36234	30416	15546	241	120
85°	53920	42687	14558	359	240

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 87.5°  
 Luminance: 92474 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.9	3.5
10°-20°	205.8	10.6
20°-30°	316.3	16.3
30°-40°	339.0	17.4
40°-50°	307.9	15.8
50°-60°	280.8	14.4
60°-70°	208.9	10.7
70°-80°	147.0	7.6
80°-90°	71.2	3.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	591.0	30.4
0°-40°	930.0	47.8
0°-60°	1518.8	78.0
0°-90°	1946.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1946.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	719	719	719	719	719	
5°	751	734	708	707	709	73
15°	858	788	687	672	669	237
25°	738	793	648	623	619	343
35°	676	662	586	563	7	423
45°	612	586	505	6	2	473
55°	534	501	409	2	0	476
65°	428	397	293	1	1	424
75°	306	269	166	2	1	323
85°	180	142	49	1	1	181
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	719.2	719.2	719.2	719.2	719.2	719.2	719.2	719.2	719.2
2.5°	734.1	725.8	723.8	729.5	708.5	722.5	711.0	713.5	713.5
5°	751.4	739.8	734.1	732.4	708.1	717.6	706.9	706.9	709.4
7.5°	763.3	750.6	740.3	736.1	704.4	712.7	700.3	700.3	700.3
10°	795.9	772.0	746.4	739.0	699.9	706.1	691.6	692.5	689.6
12.5°	834.2	812.8	758.4	737.8	694.9	697.8	682.6	682.2	678.9
15°	857.7	841.6	787.6	736.1	686.7	689.2	671.9	670.6	668.6
17.5°	844.5	842.0	807.8	734.9	679.3	677.2	659.9	658.7	657.0
20°	807.8	814.0	824.3	732.4	669.8	665.7	648.4	647.6	646.3
22.5°	767.0	773.2	816.9	736.5	658.3	653.3	636.0	635.2	633.6
25°	738.2	738.2	793.4	746.4	647.6	638.5	623.3	622.0	618.7
27.5°	718.0	714.3	758.4	757.6	634.0	623.7	609.7	608.4	604.3
30°	702.4	696.2	719.7	762.9	618.7	607.6	594.8	593.6	509.2
32.5°	688.4	681.8	687.1	767.4	603.5	590.3	579.2	413.2	18.1
35°	675.6	668.2	662.0	764.1	586.2	573.0	562.7	11.9	6.6
37.5°	661.2	655.4	641.4	746.8	567.7	554.5	544.6	6.6	5.8
40°	645.5	640.2	622.0	721.3	547.5	536.3	362.9	5.8	4.1
42.5°	629.4	625.3	603.9	684.2	527.3	516.2	11.5	4.5	3.3
45°	612.1	608.4	585.8	639.3	505.4	495.2	6.2	3.3	2.5
47.5°	594.4	589.1	566.8	591.1	483.2	472.9	5.4	2.5	1.6
50°	575.9	570.1	545.8	548.7	459.7	449.4	4.1	1.6	0.8
52.5°	555.3	548.3	523.6	510.4	435.0	425.5	3.3	0.8	0.4
55°	533.5	525.6	500.9	477.0	409.1	398.3	2.5	0.8	0.4
57.5°	509.2	500.5	477.0	445.3	381.5	269.4	1.6	0.8	0.4
60°	483.6	475.0	451.5	415.6	353.4	18.5	0.8	0.8	0.4
62.5°	456.4	447.4	424.7	385.6	323.4	15.2	0.8	0.8	0.8
65°	428.0	417.3	396.7	354.7	293.3	12.8	0.8	0.8	0.8
67.5°	399.6	386.0	366.6	323.0	262.4	10.7	0.8	0.8	0.8
70°	369.5	354.7	334.5	290.8	229.9	8.7	0.8	0.8	0.8
72.5°	338.6	324.2	302.4	258.3	199.4	6.6	0.8	0.8	0.8
75°	306.1	292.9	269.4	225.7	166.4	4.9	1.6	0.8	0.8
77.5°	272.3	262.0	235.6	192.4	134.3	3.3	1.6	0.8	0.8
80°	241.0	229.5	202.3	158.6	103.4	2.5	1.6	1.2	0.8
82.5°	208.9	198.6	171.4	127.7	74.1	2.1	1.6	1.2	0.8
85°	180.0	170.1	142.5	99.7	48.6	1.6	1.2	1.2	0.8
87.5°	154.5	145.4	118.2	72.9	27.6	1.2	1.2	1.2	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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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	24.72	26.34	25.09	26.65	26.96	20.15	21.77	20.52	22.08	22.40
	3H	27.17	28.63	27.54	28.96	29.32	20.80	22.26	21.17	22.59	22.95
	4H	28.29	29.67	28.69	30.02	30.40	20.94	22.32	21.34	22.67	23.05
	6H	29.39	30.67	29.80	31.03	31.42	20.98	22.27	21.39	22.63	23.02
	8H	29.91	31.14	30.34	31.53	31.93	20.97	22.20	21.39	22.59	22.99
	12H	30.48	31.66	30.91	32.04	32.47	20.95	22.13	21.38	22.51	22.94
4H	2H	25.38	26.76	25.78	27.11	27.48	21.28	22.66	21.68	23.01	23.39
	3H	28.07	29.23	28.48	29.63	30.03	22.62	23.79	23.03	24.19	24.59
	4H	29.36	30.42	29.79	30.84	31.27	23.16	24.22	23.59	24.63	25.07
	6H	30.64	31.58	31.10	32.02	32.47	23.43	24.37	23.89	24.81	25.26
	8H	31.27	32.15	31.73	32.59	33.05	23.47	24.35	23.93	24.79	25.25
	12H	31.96	32.75	32.44	33.22	33.69	23.48	24.27	23.96	24.75	25.22
8H	4H	29.73	30.60	30.19	31.04	31.51	24.11	24.98	24.56	25.42	25.89
	6H	31.21	31.95	31.70	32.43	32.91	24.70	25.43	25.19	25.92	26.39
	8H	31.99	32.66	32.50	33.16	33.65	24.87	25.54	25.38	26.04	26.53
	12H	32.88	33.47	33.39	33.96	34.52	24.98	25.57	25.48	26.06	26.62
12H	4H	29.77	30.56	30.25	31.03	31.50	24.32	25.11	24.80	25.59	26.06
	6H	31.30	31.96	31.80	32.47	32.95	25.05	25.71	25.55	26.22	26.70
	8H	32.18	32.77	32.68	33.26	33.82	25.36	25.95	25.86	26.44	27.00