

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: P892625

Luminaire Tested: 2MB-3SL-ASYMR-UNV-L930

Issue Date: 11/11/2024

**Test Information**

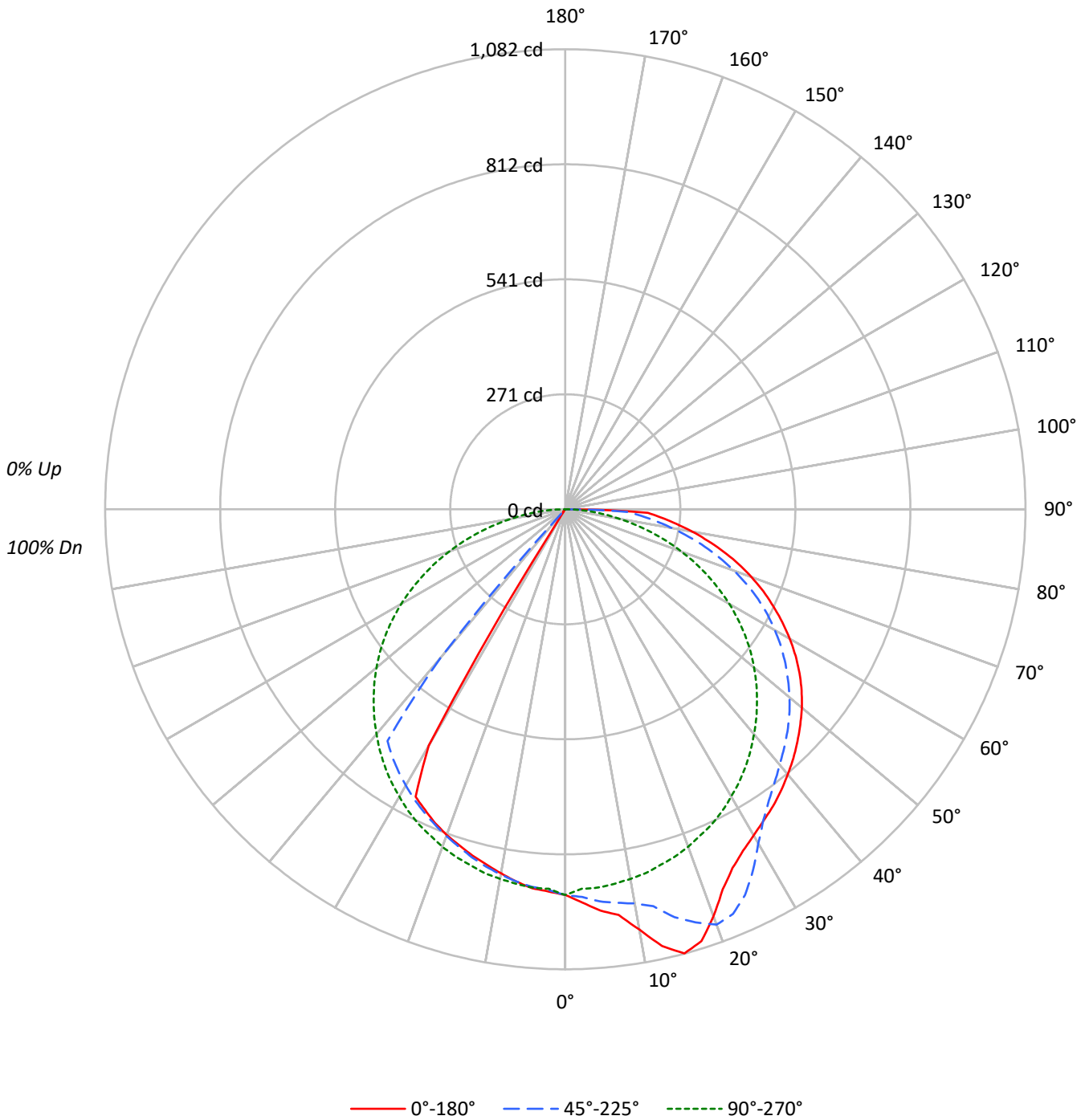
Test Method: LM-79-2019  
Report Number: P892625  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2410-248-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-3SL-ASYMR-UNV-L930  
Description: 3000 Lumen 2FT MICROBAY LINEAR BAY with ASYMMERIC REFLECTOR, 90CRI, 3000K CCT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2454.0 lumens  
Efficiency: N/A  
Efficacy: 116.9 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): 21  
Input Voltage (V):  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.998  
Total Harmonic Distortion (THDi): 8  
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83				
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69				
3	90	79	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59				
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	50				
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44				
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39				
7	66	52	44	37	64	51	43	37	50	42	37	48	42	37	47	41	36	35				
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31				
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28				
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	32	27	26				

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

	0°	45°	90°	135°	180°
0°	23680	23680	23680	23680	23680
5°	24832	24260	23403	23362	23443
10°	26606	24955	23398	23123	23054
15°	29232	26845	23407	22902	22788
20°	28303	28881	23469	22719	22646
25°	26816	28821	23524	22642	22478
30°	26701	27358	23524	22613	19357
35°	27152	26607	23560	22616	265
40°	27742	26734	23530	15599	177
45°	28500	27274	23534	288	114
50°	29496	27957	23546	211	41
55°	30620	28754	23478	141	23
60°	31846	29727	23273	52	26
65°	33341	30907	22851	62	62
70°	35572	32198	22129	76	76
75°	38937	34267	21173	212	101
80°	45691	38354	19606	316	150
85°	67999	53830	18363	479	300

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 87.5°  
 Luminance: 116596 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.9	3.5
10°-20°	259.5	10.6
20°-30°	398.9	16.3
30°-40°	427.5	17.4
40°-50°	388.3	15.8
50°-60°	354.2	14.4
60°-70°	263.5	10.7
70°-80°	185.4	7.6
80°-90°	89.8	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°	745.3	30.4
0°-40°	1172.8	47.8
0°-60°	1915.3	78.0
0°-90°	2454.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2454.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	907	907	907	907	907	
5°	948	926	893	891	894	92
15°	1082	993	866	847	843	299
25°	931	1000	817	786	780	433
35°	852	835	739	710	8	534
45°	772	739	637	8	3	596
55°	673	632	516	3	0	601
65°	540	500	370	1	1	534
75°	386	340	210	2	1	407
85°	227	180	61	2	1	228
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°	907.0	907.0	907.0	907.0	907.0	907.0	907.0	907.0	907.0
2.5°	925.7	915.3	912.7	920.0	893.5	911.2	896.6	899.7	899.7
5°	947.5	933.0	925.7	923.6	893.0	904.9	891.4	891.4	894.5
7.5°	962.6	946.5	933.5	928.3	888.3	898.7	883.1	883.1	883.1
10°	1003.6	973.5	941.3	931.9	882.6	890.4	872.2	873.2	869.6
12.5°	1051.9	1024.9	956.4	930.4	876.4	880.0	860.8	860.3	856.1
15°	1081.5	1061.3	993.2	928.3	866.0	869.1	847.3	845.7	843.1
17.5°	1064.9	1061.8	1018.7	926.7	856.6	854.0	832.2	830.6	828.6
20°	1018.7	1026.5	1039.5	923.6	844.7	839.5	817.7	816.6	815.1
22.5°	967.3	975.1	1030.1	928.8	830.1	823.9	802.1	801.0	799.0
25°	930.9	930.9	1000.5	941.3	816.6	805.2	786.0	784.4	780.3
27.5°	905.4	900.8	956.4	955.3	799.5	786.5	768.8	767.3	762.1
30°	885.7	877.9	907.5	962.1	780.3	766.2	750.1	748.6	642.1
32.5°	868.0	859.7	866.5	967.8	761.0	744.4	730.4	521.0	22.9
35°	851.9	842.6	834.8	963.6	739.2	722.6	709.6	15.1	8.3
37.5°	833.8	826.5	808.8	941.8	715.8	699.2	686.7	8.3	7.3
40°	814.0	807.3	784.4	909.6	690.4	676.4	457.7	7.3	5.2
42.5°	793.8	788.6	761.6	862.8	664.9	650.9	14.5	5.7	4.2
45°	771.9	767.3	738.7	806.2	637.4	624.4	7.8	4.2	3.1
47.5°	749.6	742.8	714.8	745.4	609.3	596.4	6.8	3.1	2.1
50°	726.2	719.0	688.3	691.9	579.7	566.7	5.2	2.1	1.0
52.5°	700.3	691.4	660.3	643.6	548.6	536.6	4.2	1.0	0.5
55°	672.7	662.9	631.7	601.6	515.8	502.3	3.1	1.0	0.5
57.5°	642.1	631.2	601.6	561.6	481.0	339.7	2.1	1.0	0.5
60°	609.9	599.0	569.3	524.2	445.7	23.4	1.0	1.0	0.5
62.5°	575.6	564.2	535.6	486.2	407.8	19.2	1.0	1.0	1.0
65°	539.7	526.2	500.3	447.3	369.9	16.1	1.0	1.0	1.0
67.5°	503.9	486.7	462.3	407.3	330.9	13.5	1.0	1.0	1.0
70°	466.0	447.3	421.8	366.7	289.9	10.9	1.0	1.0	1.0
72.5°	427.0	408.8	381.3	325.7	251.4	8.3	1.0	1.0	1.0
75°	386.0	369.3	339.7	284.7	209.9	6.2	2.1	1.0	1.0
77.5°	343.4	330.4	297.1	242.6	169.3	4.2	2.1	1.0	1.0
80°	303.9	289.3	255.1	200.0	130.4	3.1	2.1	1.6	1.0
82.5°	263.4	250.4	216.1	161.0	93.5	2.6	2.1	1.6	1.0
85°	227.0	214.5	179.7	125.7	61.3	2.1	1.6	1.6	1.0
87.5°	194.8	183.4	149.1	91.9	34.8	1.6	1.6	1.6	1.0
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	25.53	27.14	25.89	27.46	27.77	20.96	22.57	21.32	22.89	23.20
	3H	27.97	29.44	28.35	29.76	30.12	21.60	23.07	21.98	23.39	23.75
	4H	29.10	30.48	29.50	30.83	31.20	21.75	23.13	22.14	23.48	23.85
	6H	30.19	31.48	30.60	31.84	32.23	21.79	23.07	22.20	23.44	23.83
	8H	30.72	31.95	31.14	32.34	32.74	21.77	23.00	22.20	23.39	23.79
	12H	31.29	32.47	31.72	32.85	33.28	21.76	22.93	22.19	23.32	23.74
4H	2H	26.18	27.57	26.58	27.91	28.29	22.09	23.47	22.48	23.82	24.19
	3H	28.87	30.04	29.28	30.44	30.84	23.43	24.60	23.84	24.99	25.39
	4H	30.17	31.23	30.60	31.64	32.08	23.96	25.03	24.40	25.44	25.88
	6H	31.45	32.38	31.90	32.82	33.28	24.24	25.17	24.69	25.61	26.07
	8H	32.08	32.95	32.54	33.40	33.86	24.28	25.15	24.74	25.60	26.06
	12H	32.76	33.55	33.24	34.03	34.50	24.29	25.08	24.77	25.55	26.02
8H	4H	30.53	31.41	30.99	31.85	32.31	24.91	25.79	25.37	26.23	26.69
	6H	32.01	32.75	32.51	33.24	33.71	25.50	26.24	25.99	26.73	27.20
	8H	32.80	33.46	33.30	33.97	34.45	25.68	26.34	26.19	26.85	27.33
	12H	33.69	34.28	34.19	34.77	35.33	25.78	26.37	26.29	26.86	27.42
12H	4H	30.57	31.36	31.05	31.84	32.31	25.13	25.92	25.61	26.39	26.86
	6H	32.10	32.77	32.61	33.27	33.76	25.85	26.52	26.36	27.02	27.51
	8H	32.98	33.57	33.49	34.06	34.62	26.16	26.75	26.67	27.24	27.80