

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: P892621

Luminaire Tested: 2MB-3SL-ASYMR-UNV-L830

Issue Date: 11/11/2024

**Test Information**

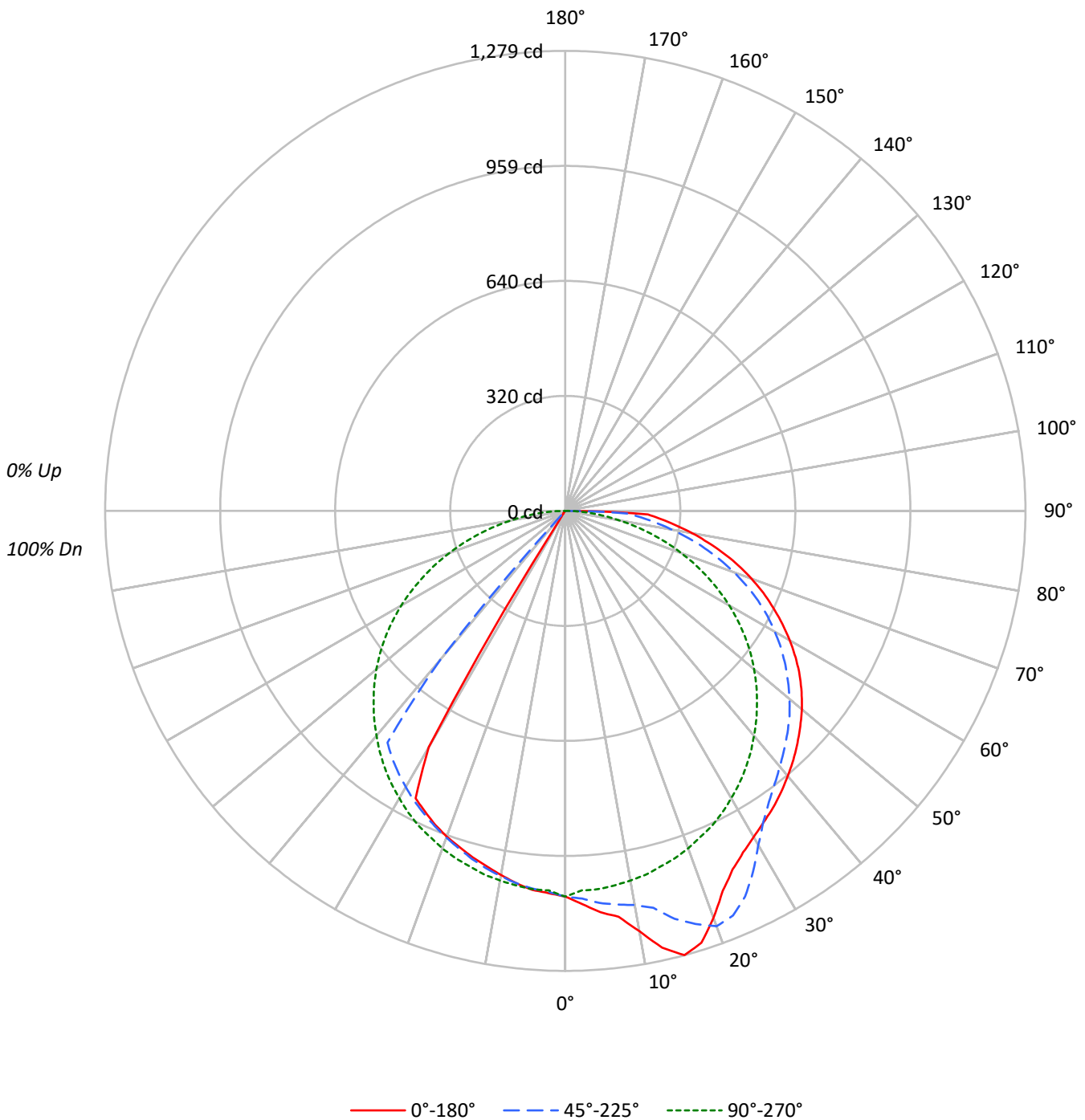
Test Method: LM-79-2019  
Report Number: P892621  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2410-248-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-3SL-ASYMR-UNV-L830  
Description: 3000 Lumen 2FT MICROBAY LINEAR BAY with ASYMMERIC REFLECTOR, 80CRI, 3000K CCT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2901.0 lumens  
Efficiency: N/A  
Efficacy: 138.1 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 (A<sub>in</sub>): 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°	27993	27993	27993	27993	27993
5°	29355	28679	27665	27618	27715
10°	31452	29498	27661	27335	27253
15°	34559	31737	27670	27072	26940
20°	33457	34140	27742	26856	26769
25°	31702	34073	27810	26765	26572
30°	31564	32342	27807	26734	22881
35°	32098	31454	27853	26737	312
40°	32797	31604	27814	18438	208
45°	33695	32240	27821	340	137
50°	34869	33050	27835	248	49
55°	36200	33988	27757	168	27
60°	37648	35147	27513	63	31
65°	39414	36535	27009	74	74
70°	42045	38060	26160	92	92
75°	46029	40511	25027	252	121
80°	54006	45330	23169	376	180
85°	80401	63655	21718	539	359

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 87.5°  
 Luminance: 137844 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.7	3.5
10°-20°	306.8	10.6
20°-30°	471.6	16.3
30°-40°	505.4	17.4
40°-50°	459.0	15.8
50°-60°	418.7	14.4
60°-70°	311.4	10.7
70°-80°	219.2	7.6
80°-90°	106.2	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°	881.1	30.4
0°-40°	1386.5	47.8
0°-60°	2264.1	78.0
0°-90°	2901.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2901.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1072	1072	1072	1072	1072	
5°	1120	1094	1056	1054	1058	108
15°	1279	1174	1024	1002	997	353
25°	1100	1183	965	929	922	512
35°	1007	987	874	839	10	631
45°	913	873	754	9	4	705
55°	795	747	610	4	1	710
65°	638	591	437	1	1	632
75°	456	402	248	2	1	481
85°	268	212	72	2	1	270
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°	1072.2	1072.2	1072.2	1072.2	1072.2	1072.2	1072.2	1072.2	1072.2
2.5°	1094.3	1082.0	1079.0	1087.6	1056.2	1077.1	1059.9	1063.6	1063.6
5°	1120.1	1102.9	1094.3	1091.9	1055.6	1069.8	1053.8	1053.8	1057.5
7.5°	1137.9	1118.9	1103.5	1097.4	1050.1	1062.4	1044.0	1044.0	1044.0
10°	1186.4	1150.8	1112.7	1101.7	1043.4	1052.6	1031.1	1032.3	1028.0
12.5°	1243.5	1211.6	1130.6	1099.9	1036.0	1040.3	1017.6	1016.9	1012.0
15°	1278.6	1254.6	1174.2	1097.4	1023.7	1027.4	1001.6	999.8	996.7
17.5°	1258.9	1255.2	1204.2	1095.6	1012.6	1009.6	983.8	981.9	979.5
20°	1204.2	1213.5	1228.8	1091.9	998.5	992.4	966.6	965.4	963.5
22.5°	1143.5	1152.7	1217.8	1098.0	981.3	974.0	948.2	946.9	944.5
25°	1100.5	1100.5	1182.8	1112.7	965.4	951.9	929.1	927.3	922.4
27.5°	1070.4	1064.8	1130.6	1129.3	945.1	929.7	908.9	907.0	900.9
30°	1047.0	1037.8	1072.8	1137.3	922.4	905.8	886.8	884.9	759.0
32.5°	1026.2	1016.3	1024.3	1144.1	899.7	880.0	863.4	615.9	27.0
35°	1007.1	996.1	986.9	1139.2	873.9	854.2	838.9	17.8	9.8
37.5°	985.6	977.0	956.2	1113.4	846.2	826.6	811.8	9.8	8.6
40°	962.3	954.3	927.3	1075.3	816.1	799.6	541.0	8.6	6.1
42.5°	938.3	932.2	900.3	1020.0	786.0	769.5	17.2	6.8	4.9
45°	912.6	907.0	873.2	953.1	753.5	738.1	9.2	4.9	3.7
47.5°	886.1	878.2	845.0	881.2	720.3	705.0	8.0	3.7	2.5
50°	858.5	849.9	813.7	818.0	685.3	670.0	6.1	2.5	1.2
52.5°	827.8	817.4	780.5	760.9	648.5	634.4	4.9	1.2	0.6
55°	795.3	783.6	746.7	711.1	609.8	593.8	3.7	1.2	0.6
57.5°	759.0	746.1	711.1	663.8	568.7	401.6	2.5	1.2	0.6
60°	721.0	708.1	673.1	619.6	526.9	27.6	1.2	1.2	0.6
62.5°	680.4	666.9	633.1	574.8	482.1	22.7	1.2	1.2	1.2
65°	638.0	622.1	591.4	528.7	437.2	19.0	1.2	1.2	1.2
67.5°	595.7	575.4	546.5	481.5	391.2	16.0	1.2	1.2	1.2
70°	550.8	528.7	498.6	433.6	342.7	12.9	1.2	1.2	1.2
72.5°	504.8	483.3	450.7	385.0	297.2	9.8	1.2	1.2	1.2
75°	456.3	436.6	401.6	336.5	248.1	7.4	2.5	1.2	1.2
77.5°	405.9	390.6	351.3	286.8	200.2	4.9	2.5	1.2	1.2
80°	359.2	342.1	301.5	236.4	154.1	3.7	2.5	1.8	1.2
82.5°	311.3	296.0	255.5	190.4	110.5	3.1	2.5	1.8	1.2
85°	268.4	253.6	212.5	148.6	72.5	2.5	1.8	1.8	1.2
87.5°	230.3	216.8	176.2	108.7	41.1	1.8	1.8	1.8	1.2
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	26.11	27.72	26.47	28.04	28.35	21.54	23.16	21.91	23.47	23.78
	3H	28.55	30.02	28.93	30.35	30.71	22.18	23.65	22.56	23.97	24.33
	4H	29.68	31.06	30.08	31.41	31.78	22.33	23.71	22.73	24.06	24.43
	6H	30.77	32.06	31.18	32.42	32.81	22.37	23.65	22.78	24.02	24.41
	8H	31.30	32.53	31.73	32.92	33.32	22.36	23.59	22.78	23.97	24.37
	12H	31.87	33.05	32.30	33.43	33.86	22.34	23.52	22.77	23.90	24.33
4H	2H	26.77	28.15	27.16	28.50	28.87	22.67	24.05	23.07	24.40	24.77
	3H	29.45	30.62	29.86	31.02	31.42	24.01	25.18	24.42	25.58	25.98
	4H	30.75	31.81	31.18	32.22	32.66	24.55	25.61	24.98	26.02	26.46
	6H	32.03	32.96	32.48	33.40	33.86	24.82	25.76	25.27	26.20	26.65
	8H	32.66	33.54	33.12	33.98	34.44	24.86	25.74	25.32	26.18	26.64
	12H	33.34	34.14	33.82	34.61	35.08	24.87	25.66	25.35	26.14	26.60
8H	4H	31.11	31.99	31.57	32.43	32.90	25.49	26.37	25.95	26.81	27.28
	6H	32.60	33.33	33.09	33.82	34.29	26.08	26.82	26.57	27.31	27.78
	8H	33.38	34.04	33.89	34.55	35.03	26.26	26.93	26.77	27.43	27.91
	12H	34.27	34.86	34.78	35.35	35.91	26.36	26.95	26.87	27.44	28.00
12H	4H	31.15	31.94	31.63	32.42	32.89	25.71	26.50	26.19	26.98	27.44
	6H	32.68	33.35	33.19	33.85	34.34	26.43	27.10	26.94	27.60	28.09
	8H	33.56	34.16	34.07	34.64	35.20	26.74	27.34	27.25	27.83	28.38