

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: P892985

Luminaire Tested: 2MB-SC3-ASYMR-UNV-CC93-HI-4000K

Issue Date: 11/11/2024

**Test Information**

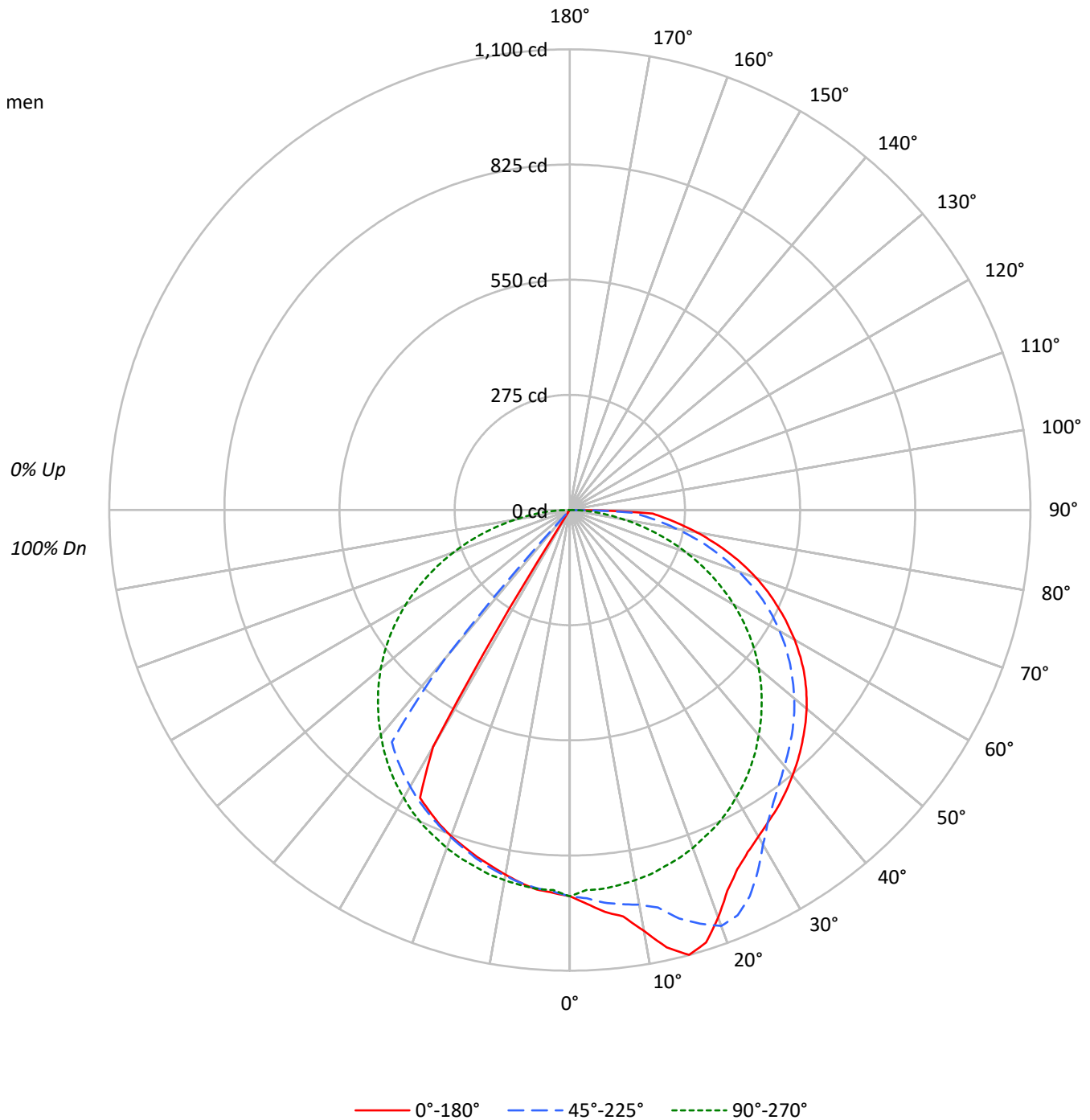
Test Method: LM-79-2019  
Report Number: P892985  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2410-248-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-SC3-ASYMR-UNV-CC93-HI-4000K  
Description: Selectable 2FT MICROBAY LINEAR BAY with ASYMMERIC REFLECTOR, 90CRI, 4000K CCT, HI luv setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2495.0 lumens  
Efficiency: N/A  
Efficacy: 118.8 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: 0.996  
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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**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	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°	24077	24077	24077	24077	24077
5°	25248	24667	23794	23752	23836
10°	27052	25371	23788	23510	23438
15°	29721	27294	23796	23283	23169
20°	28775	29362	23860	23096	23024
25°	27266	29302	23918	23020	22853
30°	27147	27817	23916	22993	19680
35°	27607	27050	23955	22996	271
40°	28206	27180	23922	15858	181
45°	28977	27729	23926	292	118
50°	29991	28424	23940	215	45
55°	31134	29232	23874	146	23
60°	32379	30228	23664	57	26
65°	33903	31420	23228	68	68
70°	36167	32740	22496	84	84
75°	39583	34842	21526	212	111
80°	46458	38986	19936	316	165
85°	69137	54729	18662	479	330

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 87.5°  
 Luminance: 118571 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.4	3.5
10°-20°	263.8	10.6
20°-30°	405.6	16.3
30°-40°	434.6	17.4
40°-50°	394.7	15.8
50°-60°	360.1	14.4
60°-70°	267.9	10.7
70°-80°	188.6	7.6
80°-90°	91.3	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°	757.8	30.4
0°-40°	1192.4	47.8
0°-60°	1947.3	78.0
0°-90°	2495.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2495.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	922	922	922	922	922	
5°	963	941	908	906	910	93
15°	1100	1010	880	861	857	304
25°	946	1017	830	799	793	440
35°	866	849	752	722	8	543
45°	785	751	648	8	3	606
55°	684	642	524	3	0	611
65°	549	509	376	1	1	543
75°	392	345	213	2	1	414
85°	231	183	62	2	1	232
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°	922.2	922.2	922.2	922.2	922.2	922.2	922.2	922.2	922.2
2.5°	941.2	930.6	928.0	935.4	908.4	926.4	911.6	914.8	914.8
5°	963.4	948.6	941.2	939.1	907.9	920.0	906.3	906.3	909.5
7.5°	978.7	962.3	949.1	943.8	903.1	913.7	897.9	897.9	897.9
10°	1020.4	989.8	957.0	947.5	897.3	905.3	886.8	887.8	884.1
12.5°	1069.5	1042.0	972.3	945.9	891.0	894.7	875.2	874.6	870.4
15°	1099.6	1079.0	1009.8	943.8	880.4	883.6	861.4	859.8	857.2
17.5°	1082.7	1079.5	1035.7	942.2	870.9	868.3	846.1	844.5	842.4
20°	1035.7	1043.6	1056.8	939.1	858.8	853.5	831.3	830.3	828.7
22.5°	983.4	991.3	1047.3	944.3	844.0	837.7	815.5	814.4	812.3
25°	946.5	946.5	1017.2	957.0	830.3	818.6	799.1	797.5	793.3
27.5°	920.6	915.8	972.3	971.3	812.8	799.6	781.7	780.1	774.8
30°	900.5	892.6	922.7	978.1	793.3	779.0	762.7	761.1	652.8
32.5°	882.5	874.1	881.0	984.0	773.7	756.8	742.6	529.7	23.2
35°	866.2	856.7	848.7	979.7	751.6	734.7	721.5	15.3	8.5
37.5°	847.7	840.3	822.3	957.5	727.8	710.9	698.2	8.5	7.4
40°	827.6	820.8	797.5	924.8	701.9	687.7	465.3	7.4	5.3
42.5°	807.0	801.7	774.3	877.3	676.0	661.8	14.8	5.8	4.2
45°	784.8	780.1	751.0	819.7	648.0	634.8	7.9	4.2	3.2
47.5°	762.1	755.3	726.7	757.9	619.5	606.3	6.9	3.2	2.1
50°	738.4	731.0	699.8	703.5	589.4	576.2	5.3	2.1	1.1
52.5°	712.0	703.0	671.3	654.4	557.7	545.6	4.2	1.1	0.5
55°	684.0	673.9	642.2	611.6	524.5	510.7	3.2	1.1	0.5
57.5°	652.8	641.7	611.6	570.9	489.1	345.4	2.1	1.1	0.5
60°	620.1	609.0	578.9	532.9	453.2	23.8	1.1	1.1	0.5
62.5°	585.2	573.6	544.5	494.4	414.6	19.5	1.1	1.1	1.1
65°	548.8	535.0	508.6	454.7	376.0	16.4	1.1	1.1	1.1
67.5°	512.3	494.9	470.1	414.1	336.4	13.7	1.1	1.1	1.1
70°	473.8	454.7	428.9	372.9	294.7	11.1	1.1	1.1	1.1
72.5°	434.1	415.7	387.7	331.2	255.6	8.5	1.1	1.1	1.1
75°	392.4	375.5	345.4	289.4	213.4	6.3	2.1	1.1	1.1
77.5°	349.1	335.9	302.1	246.6	172.2	4.2	2.1	1.1	1.1
80°	309.0	294.2	259.3	203.3	132.6	3.2	2.1	1.6	1.1
82.5°	267.8	254.6	219.7	163.7	95.1	2.6	2.1	1.6	1.1
85°	230.8	218.1	182.7	127.8	62.3	2.1	1.6	1.6	1.1
87.5°	198.1	186.4	151.6	93.5	35.4	1.6	1.6	1.6	1.1
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	25.58	27.20	25.95	27.51	27.83	21.02	22.63	21.38	22.95	23.26
	3H	28.03	29.50	28.41	29.82	30.18	21.66	23.12	22.04	23.45	23.81
	4H	29.16	30.54	29.55	30.89	31.26	21.80	23.19	22.20	23.53	23.91
	6H	30.25	31.53	30.66	31.90	32.29	21.84	23.13	22.26	23.49	23.88
	8H	30.78	32.01	31.20	32.39	32.79	21.83	23.06	22.26	23.45	23.85
	12H	31.35	32.52	31.78	32.91	33.33	21.81	22.99	22.24	23.37	23.80
4H	2H	26.24	27.62	26.64	27.97	28.35	22.14	23.53	22.54	23.87	24.25
	3H	28.93	30.10	29.34	30.50	30.90	23.49	24.65	23.90	25.05	25.45
	4H	30.23	31.29	30.66	31.70	32.14	24.02	25.08	24.45	25.50	25.93
	6H	31.51	32.44	31.96	32.88	33.34	24.30	25.23	24.75	25.67	26.13
	8H	32.13	33.01	32.59	33.45	33.92	24.33	25.21	24.79	25.65	26.12
	12H	32.82	33.61	33.30	34.09	34.56	24.35	25.14	24.82	25.61	26.08
8H	4H	30.59	31.47	31.05	31.91	32.37	24.97	25.85	25.43	26.29	26.75
	6H	32.07	32.81	32.56	33.30	33.77	25.56	26.30	26.05	26.78	27.26
	8H	32.86	33.52	33.36	34.02	34.51	25.74	26.40	26.24	26.91	27.39
	12H	33.75	34.34	34.25	34.83	35.39	25.84	26.43	26.34	26.92	27.48
12H	4H	30.63	31.42	31.11	31.90	32.36	25.19	25.98	25.67	26.45	26.92
	6H	32.16	32.83	32.67	33.33	33.82	25.91	26.57	26.42	27.08	27.56
	8H	33.04	33.63	33.55	34.12	34.68	26.22	26.81	26.73	27.30	27.86