

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: P892986

Luminaire Tested: 2MB-SC3-ASYMR-UNV-CC93-HI-5000K

Issue Date: 11/11/2024

**Test Information**

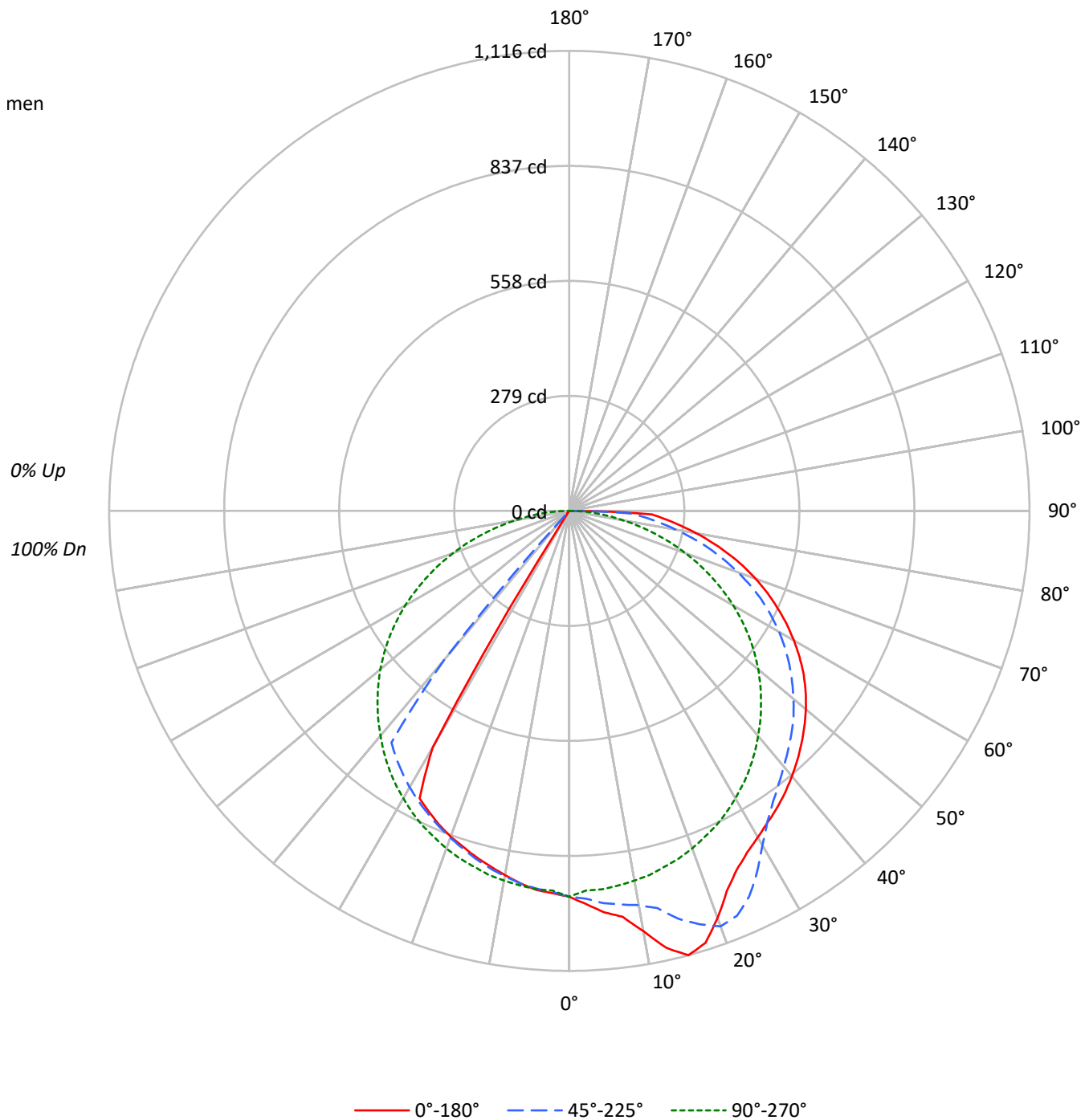
Test Method: LM-79-2019  
Report Number: P892986  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2410-248-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-SC3-ASYMR-UNV-CC93-HI-5000K  
Description: Selectable 2FT MICROBAY LINEAR BAY with ASYMMERIC REFLECTOR, 90CRI, 5000K CCT, HI luv setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2532.0 lumens  
Efficiency: N/A  
Efficacy: 120.6 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	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°	24432	24432	24432	24432	24432
5°	25621	25031	24148	24106	24190
10°	27452	25747	24141	23857	23785
15°	30162	27699	24150	23629	23512
20°	29203	29798	24213	23438	23366
25°	27669	29737	24273	23360	23192
30°	27551	28230	24271	23334	19972
35°	28015	27451	24309	23337	274
40°	28625	27582	24276	16093	184
45°	29409	28142	24284	295	118
50°	30434	28846	24297	219	45
55°	31594	29669	24225	146	23
60°	32854	30672	24014	57	26
65°	34403	31889	23574	68	68
70°	36702	33221	22832	84	84
75°	40168	35356	21839	212	111
80°	47150	39572	20222	316	165
85°	70156	55567	18932	479	330

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 87.5°  
 Luminance: 120307 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.7	3.5
10°-20°	267.8	10.6
20°-30°	411.6	16.3
30°-40°	441.1	17.4
40°-50°	400.6	15.8
50°-60°	365.4	14.4
60°-70°	271.8	10.7
70°-80°	191.3	7.6
80°-90°	92.7	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°	769.0	30.4
0°-40°	1210.1	47.8
0°-60°	1976.1	78.0
0°-90°	2532.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2532.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	936	936	936	936	936	
5°	978	955	921	920	923	95
15°	1116	1025	894	874	870	308
25°	960	1032	843	811	805	447
35°	879	861	763	732	9	551
45°	796	762	658	8	3	615
55°	694	652	532	3	0	620
65°	557	516	382	1	1	551
75°	398	350	216	2	1	420
85°	234	186	63	2	1	235
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°	935.8	935.8	935.8	935.8	935.8	935.8	935.8	935.8	935.8
2.5°	955.1	944.4	941.7	949.2	921.9	940.1	925.1	928.3	928.3
5°	977.6	962.6	955.1	953.0	921.4	933.7	919.8	919.8	923.0
7.5°	993.2	976.6	963.2	957.8	916.5	927.3	911.2	911.2	911.2
10°	1035.5	1004.4	971.2	961.6	910.6	918.7	899.9	901.0	897.2
12.5°	1085.4	1057.5	986.8	960.0	904.2	908.0	888.1	887.6	883.3
15°	1115.9	1095.0	1024.8	957.8	893.5	896.7	874.2	872.6	869.9
17.5°	1098.8	1095.6	1051.1	956.2	883.8	881.2	858.7	857.0	854.9
20°	1051.1	1059.1	1072.5	953.0	871.5	866.2	843.6	842.6	841.0
22.5°	998.0	1006.0	1062.9	958.3	856.5	850.1	827.6	826.5	824.3
25°	960.5	960.5	1032.3	971.2	842.6	830.8	810.9	809.3	805.1
27.5°	934.2	929.4	986.8	985.7	824.9	811.5	793.3	791.7	786.3
30°	913.9	905.8	936.4	992.6	805.1	790.6	774.0	772.4	662.5
32.5°	895.6	887.1	894.0	998.5	785.2	768.1	753.6	537.6	23.6
35°	879.0	869.4	861.3	994.3	762.7	745.6	732.2	15.5	8.6
37.5°	860.3	852.8	834.5	971.7	738.6	721.4	708.6	8.6	7.5
40°	839.9	832.9	809.3	938.5	712.3	697.9	472.2	7.5	5.4
42.5°	819.0	813.6	785.8	890.3	686.1	671.6	15.0	5.9	4.3
45°	796.5	791.7	762.2	831.9	657.7	644.3	8.0	4.3	3.2
47.5°	773.4	766.5	737.5	769.1	628.7	615.3	7.0	3.2	2.1
50°	749.3	741.8	710.2	713.9	598.2	584.8	5.4	2.1	1.1
52.5°	722.5	713.4	681.2	664.1	566.0	553.7	4.3	1.1	0.5
55°	694.1	683.9	651.8	620.7	532.2	518.3	3.2	1.1	0.5
57.5°	662.5	651.2	620.7	579.4	496.3	350.5	2.1	1.1	0.5
60°	629.2	618.0	587.4	540.8	459.9	24.1	1.1	1.1	0.5
62.5°	593.9	582.1	552.6	501.7	420.7	19.8	1.1	1.1	1.1
65°	556.9	543.0	516.2	461.5	381.6	16.6	1.1	1.1	1.1
67.5°	519.9	502.2	477.0	420.2	341.4	13.9	1.1	1.1	1.1
70°	480.8	461.5	435.2	378.4	299.1	11.3	1.1	1.1	1.1
72.5°	440.6	421.8	393.4	336.1	259.4	8.6	1.1	1.1	1.1
75°	398.2	381.1	350.5	293.7	216.5	6.4	2.1	1.1	1.1
77.5°	354.3	340.9	306.6	250.3	174.7	4.3	2.1	1.1	1.1
80°	313.6	298.5	263.2	206.4	134.5	3.2	2.1	1.6	1.1
82.5°	271.7	258.3	223.0	166.2	96.5	2.7	2.1	1.6	1.1
85°	234.2	221.4	185.5	129.7	63.2	2.1	1.6	1.6	1.1
87.5°	201.0	189.2	153.8	94.9	35.9	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	25.64	27.25	26.00	27.56	27.88	21.07	22.68	21.43	23.00	23.31
	3H	28.08	29.55	28.46	29.87	30.23	21.71	23.17	22.09	23.50	23.86
	4H	29.21	30.59	29.60	30.94	31.31	21.85	23.24	22.25	23.58	23.96
	6H	30.30	31.58	30.71	31.95	32.34	21.90	23.18	22.31	23.54	23.93
	8H	30.83	32.06	31.25	32.45	32.84	21.88	23.11	22.31	23.50	23.90
	12H	31.40	32.58	31.83	32.96	33.39	21.87	23.04	22.29	23.42	23.85
4H	2H	26.29	27.68	26.69	28.02	28.40	22.19	23.58	22.59	23.92	24.30
	3H	28.98	30.15	29.39	30.55	30.95	23.54	24.71	23.95	25.10	25.50
	4H	30.28	31.34	30.71	31.75	32.19	24.07	25.14	24.50	25.55	25.98
	6H	31.56	32.49	32.01	32.93	33.39	24.35	25.28	24.80	25.72	26.18
	8H	32.19	33.06	32.64	33.50	33.97	24.39	25.26	24.84	25.70	26.17
	12H	32.87	33.66	33.35	34.14	34.61	24.40	25.19	24.88	25.66	26.13
8H	4H	30.64	31.52	31.10	31.96	32.42	25.02	25.90	25.48	26.34	26.80
	6H	32.12	32.86	32.62	33.35	33.82	25.61	26.35	26.10	26.83	27.31
	8H	32.91	33.57	33.41	34.08	34.56	25.79	26.45	26.29	26.96	27.44
	12H	33.80	34.39	34.30	34.88	35.44	25.89	26.48	26.39	26.97	27.53
12H	4H	30.68	31.47	31.16	31.95	32.42	25.24	26.03	25.72	26.50	26.97
	6H	32.21	32.88	32.72	33.38	33.87	25.96	26.63	26.47	27.13	27.62
	8H	33.09	33.68	33.60	34.17	34.73	26.27	26.86	26.78	27.35	27.91