

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: P892627

Luminaire Tested: 2MB-3SL-ASYMR-UNV-L940

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892627
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-L940
Description: 3000 Lumen 2FT MICROBAY LINEAR BAY with ASYMMERIC REFLECTOR, 90CRI, 4000K CCT
Light Source: -
Ballast/Driver: -

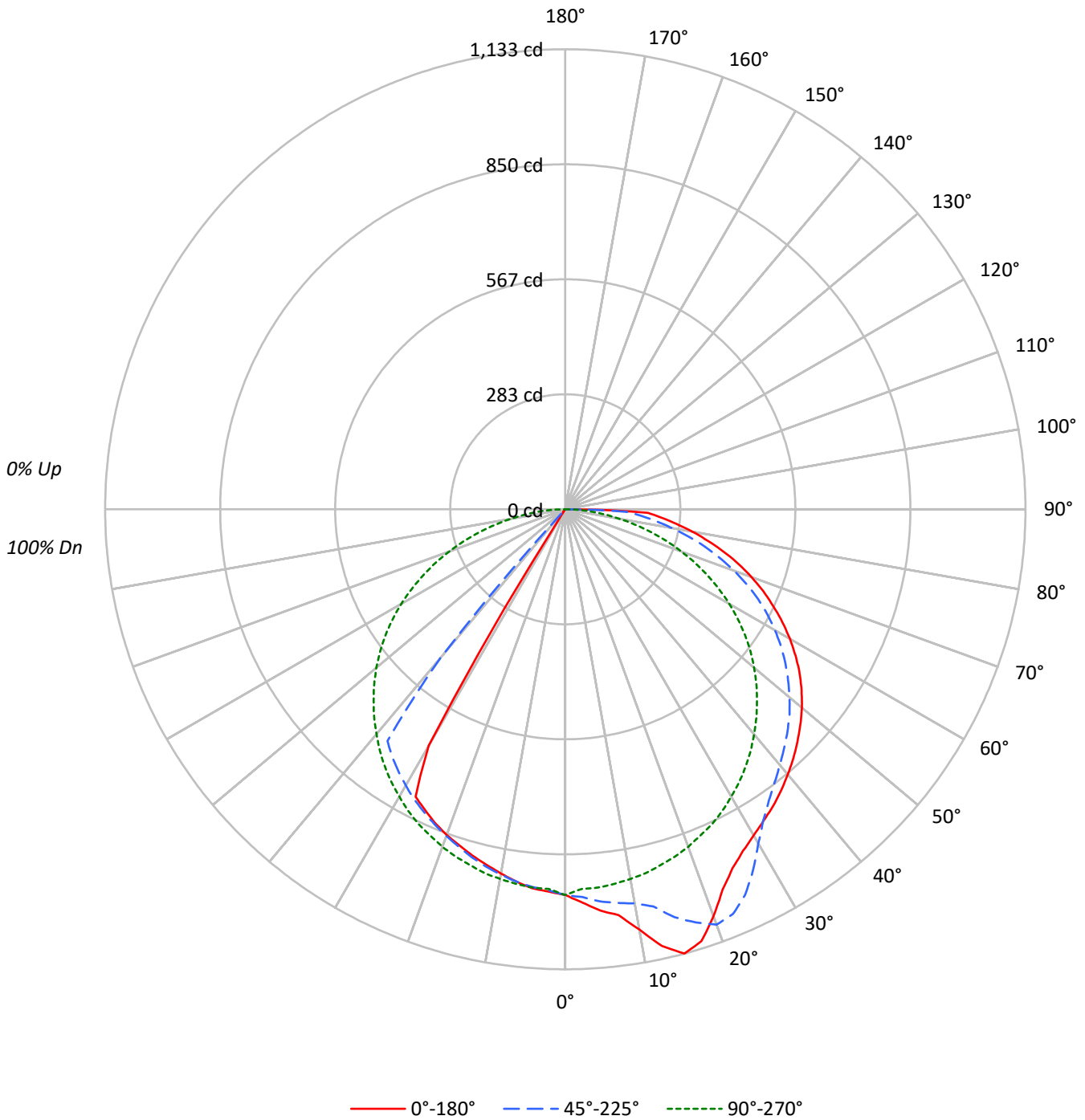
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2570.0 lumens
Efficiency: N/A
Efficacy: 122.4 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_{in}): 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	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°	24800	24800	24800	24800	24800
5°	26006	25408	24509	24467	24551
10°	27865	26134	24504	24215	24143
15°	30616	28115	24513	23983	23867
20°	29639	30245	24577	23791	23716
25°	28084	30184	24636	23711	23538
30°	27964	28652	24633	23683	20271
35°	28436	27866	24675	23684	277
40°	29054	27998	24641	16335	184
45°	29848	28563	24646	303	122
50°	30893	29277	24658	219	45
55°	32067	30110	24589	150	23
60°	33350	31136	24374	57	26
65°	34916	32365	23926	68	68
70°	37251	33725	23175	84	84
75°	40773	35891	22172	222	111
80°	47856	40158	20538	331	165
85°	71204	56376	19231	479	330

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 122102 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.0	3.5
10°-20°	271.8	10.6
20°-30°	417.8	16.3
30°-40°	447.7	17.4
40°-50°	406.6	15.8
50°-60°	370.9	14.4
60°-70°	275.9	10.7
70°-80°	194.2	7.6
80°-90°	94.1	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°	780.6	30.4
0°-40°	1228.3	47.8
0°-60°	2005.8	78.0
0°-90°	2570.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2570.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	950	950	950	950	950	
5°	992	970	935	934	937	96
15°	1133	1040	907	887	883	313
25°	975	1048	855	823	817	453
35°	892	874	774	743	9	559
45°	808	774	668	8	3	625
55°	704	662	540	3	0	629
65°	565	524	387	1	1	560
75°	404	356	220	2	1	426
85°	238	188	64	2	1	239
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°	949.9	949.9	949.9	949.9	949.9	949.9	949.9	949.9	949.9
2.5°	969.5	958.6	955.9	963.5	935.7	954.2	939.0	942.3	942.3
5°	992.3	977.1	969.5	967.3	935.2	947.7	933.6	933.6	936.8
7.5°	1008.1	991.2	977.6	972.2	930.3	941.2	924.9	924.9	924.9
10°	1051.1	1019.5	985.8	976.0	924.3	932.5	913.4	914.5	910.7
12.5°	1101.7	1073.4	1001.6	974.4	917.8	921.6	901.5	900.9	896.6
15°	1132.7	1111.5	1040.2	972.2	906.9	910.2	887.3	885.7	883.0
17.5°	1115.3	1112.0	1066.8	970.6	897.1	894.4	871.5	869.9	867.7
20°	1066.8	1075.0	1088.6	967.3	884.6	879.2	856.3	855.2	853.6
22.5°	1013.0	1021.1	1078.8	972.7	869.4	862.8	840.0	838.9	836.7
25°	974.9	974.9	1047.8	985.8	855.2	843.2	823.1	821.5	817.1
27.5°	948.2	943.3	1001.6	1000.5	837.3	823.7	805.2	803.5	798.1
30°	927.6	919.4	950.4	1007.5	817.1	802.4	785.6	783.9	672.4
32.5°	909.1	900.4	907.4	1013.5	797.0	779.6	764.9	545.7	23.9
35°	892.2	882.4	874.3	1009.2	774.2	756.7	743.1	15.8	8.7
37.5°	873.2	865.6	847.1	986.3	749.7	732.3	719.2	8.7	7.6
40°	852.5	845.4	821.5	952.6	723.0	708.3	479.3	7.6	5.4
42.5°	831.3	825.8	797.5	903.6	696.4	681.7	15.2	6.0	4.4
45°	808.4	803.5	773.6	844.3	667.5	653.9	8.2	4.4	3.3
47.5°	785.0	778.0	748.6	780.7	638.1	624.5	7.1	3.3	2.2
50°	760.6	752.9	720.8	724.6	607.1	593.5	5.4	2.2	1.1
52.5°	733.4	724.1	691.5	674.1	574.5	562.0	4.4	1.1	0.5
55°	704.5	694.2	661.5	630.0	540.2	526.1	3.3	1.1	0.5
57.5°	672.4	661.0	630.0	588.1	503.8	355.8	2.2	1.1	0.5
60°	638.7	627.3	596.3	548.9	466.8	24.5	1.1	1.1	0.5
62.5°	602.8	590.8	560.9	509.2	427.1	20.1	1.1	1.1	1.1
65°	565.2	551.1	523.9	468.4	387.3	16.9	1.1	1.1	1.1
67.5°	527.7	509.8	484.2	426.5	346.5	14.1	1.1	1.1	1.1
70°	488.0	468.4	441.8	384.1	303.6	11.4	1.1	1.1	1.1
72.5°	447.2	428.2	399.3	341.1	263.3	8.7	1.1	1.1	1.1
75°	404.2	386.8	355.8	298.1	219.8	6.5	2.2	1.1	1.1
77.5°	359.6	346.0	311.2	254.1	177.4	4.4	2.2	1.1	1.1
80°	318.3	303.0	267.1	209.5	136.6	3.3	2.2	1.6	1.1
82.5°	275.8	262.2	226.3	168.6	97.9	2.7	2.2	1.6	1.1
85°	237.7	224.7	188.2	131.7	64.2	2.2	1.6	1.6	1.1
87.5°	204.0	192.0	156.1	96.3	36.5	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	25.69	27.30	26.05	27.62	27.93	21.12	22.73	21.49	23.05	23.36
	3H	28.13	29.60	28.51	29.92	30.28	21.76	23.23	22.14	23.55	23.91
	4H	29.26	30.64	29.66	30.99	31.36	21.91	23.29	22.31	23.64	24.01
	6H	30.35	31.64	30.76	32.00	32.39	21.95	23.23	22.36	23.60	23.99
	8H	30.88	32.11	31.31	32.50	32.90	21.94	23.16	22.36	23.55	23.95
	12H	31.45	32.63	31.88	33.01	33.44	21.92	23.10	22.35	23.48	23.91
4H	2H	26.34	27.73	26.74	28.07	28.45	22.25	23.63	22.65	23.98	24.35
	3H	29.03	30.20	29.44	30.60	31.00	23.59	24.76	24.00	25.15	25.55
	4H	30.33	31.39	30.76	31.80	32.24	24.13	25.19	24.56	25.60	26.04
	6H	31.61	32.54	32.06	32.98	33.44	24.40	25.33	24.85	25.77	26.23
	8H	32.24	33.11	32.70	33.56	34.02	24.44	25.31	24.90	25.76	26.22
	12H	32.92	33.72	33.40	34.19	34.66	24.45	25.24	24.93	25.71	26.18
8H	4H	30.69	31.57	31.15	32.01	32.48	25.07	25.95	25.53	26.39	26.85
	6H	32.17	32.91	32.67	33.40	33.87	25.66	26.40	26.15	26.89	27.36
	8H	32.96	33.62	33.47	34.13	34.61	25.84	26.50	26.35	27.01	27.49
	12H	33.85	34.44	34.35	34.93	35.49	25.94	26.53	26.45	27.02	27.58
12H	4H	30.73	31.52	31.21	32.00	32.47	25.29	26.08	25.77	26.56	27.02
	6H	32.26	32.93	32.77	33.43	33.92	26.01	26.68	26.52	27.18	27.67
	8H	33.14	33.73	33.65	34.22	34.78	26.32	26.92	26.83	27.41	27.96