

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: P892628

Luminaire Tested: 2MB-3SL-ASYMR-UNV-L950

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892628
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-L950
Description: 3000 Lumen 2FT MICROBAY LINEAR BAY with ASYMMERIC REFLECTOR, 90CRI, 5000K CCT
Light Source: -
Ballast/Driver: -

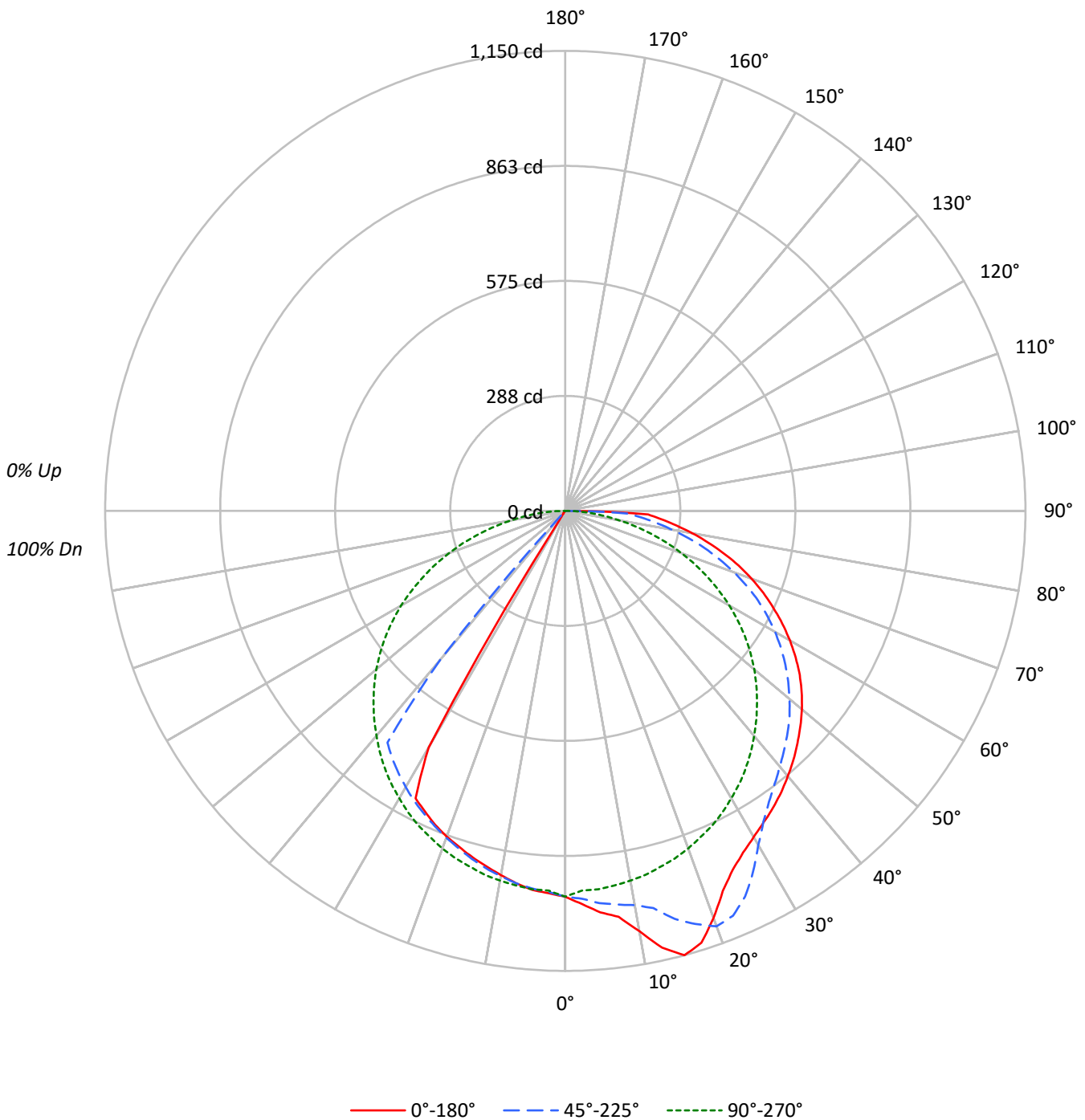
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2609.0 lumens
Efficiency: N/A
Efficacy: 124.2 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

TEST NUMBER: P892628
CATALOG NUMBER: 2MB-3SL-ASYMR-UNV-L950

Luminous Intensity Polar Plot





TEST NUMBER: P892628
 CATALOG NUMBER: 2MB-3SL-ASYMR-UNV-L950

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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83	83	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69	69	69
3	90	79	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59	59	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	50	50	50
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44	44	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39	39	39
7	66	52	44	37	64	51	43	37	50	42	37	48	42	37	47	41	36	35	35	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31	31	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28	28	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	32	27	26	26	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	25176	25176	25176	25176	25176
5°	26402	25794	24882	24837	24923
10°	28287	26529	24875	24583	24509
15°	31081	28543	24886	24348	24229
20°	30090	30704	24950	24152	24074
25°	28510	30642	25010	24071	23895
30°	28386	29086	25007	24042	20578
35°	28870	28286	25048	24044	280
40°	29494	28424	25016	16584	187
45°	30302	28999	25022	306	122
50°	31360	29723	25036	223	45
55°	32554	30570	24962	150	27
60°	33857	31606	24745	57	31
65°	35447	32859	24291	68	68
70°	37816	34236	23526	84	84
75°	41388	36435	22505	222	111
80°	48578	40775	20838	331	165
85°	72283	57245	19531	509	330

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 123958 cd/sqm



TEST NUMBER: P892628
 CATALOG NUMBER: 2MB-3SL-ASYMR-UNV-L950

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.4	3.5
10°-20°	275.9	10.6
20°-30°	424.1	16.3
30°-40°	454.5	17.4
40°-50°	412.8	15.8
50°-60°	376.5	14.4
60°-70°	280.1	10.7
70°-80°	197.2	7.6
80°-90°	95.5	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°	792.4	30.4
0°-40°	1246.9	47.8
0°-60°	2036.2	78.0
0°-90°	2609.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2609.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	964	964	964	964	964	
5°	1007	984	949	948	951	98
15°	1150	1056	921	901	896	317
25°	990	1064	868	836	830	460
35°	906	888	786	754	9	567
45°	821	785	678	8	3	634
55°	715	672	548	3	1	639
65°	574	532	393	1	1	568
75°	410	361	223	2	1	433
85°	241	191	65	2	1	242
90°	0	0	0	0	0	



TEST NUMBER: P892628
 CATALOG NUMBER: 2MB-3SL-ASYMR-UNV-L950

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3
2.5°	984.2	973.1	970.4	978.1	949.9	968.7	953.2	956.6	956.6
5°	1007.4	991.9	984.2	982.0	949.4	962.1	947.7	947.7	951.0
7.5°	1023.4	1006.3	992.5	986.9	944.4	955.5	938.9	938.9	938.9
10°	1067.0	1035.0	1000.7	990.8	938.3	946.6	927.3	928.4	924.5
12.5°	1118.4	1089.7	1016.8	989.1	931.7	935.6	915.1	914.6	910.2
15°	1149.9	1128.3	1056.0	986.9	920.7	924.0	900.8	899.1	896.4
17.5°	1132.2	1128.9	1083.0	985.3	910.7	908.0	884.8	883.1	880.9
20°	1083.0	1091.3	1105.1	982.0	898.0	892.5	869.3	868.2	866.5
22.5°	1028.4	1036.6	1095.2	987.5	882.6	875.9	852.7	851.6	849.4
25°	989.7	989.7	1063.7	1000.7	868.2	856.0	835.6	834.0	829.5
27.5°	962.6	957.7	1016.8	1015.7	850.0	836.2	817.4	815.7	810.2
30°	941.6	933.4	964.8	1022.8	829.5	814.6	797.5	795.8	682.6
32.5°	922.9	914.0	921.2	1028.9	809.1	791.4	776.5	553.9	24.3
35°	905.8	895.8	887.5	1024.5	785.9	768.2	754.4	16.0	8.8
37.5°	886.4	878.7	859.9	1001.3	761.1	743.4	730.1	8.8	7.7
40°	865.4	858.3	834.0	967.1	734.0	719.1	486.6	7.7	5.5
42.5°	843.9	838.4	809.7	917.3	706.9	692.0	15.5	6.1	4.4
45°	820.7	815.7	785.4	857.1	677.7	663.8	8.3	4.4	3.3
47.5°	796.9	789.8	759.9	792.5	647.8	634.0	7.2	3.3	2.2
50°	772.1	764.4	731.8	735.6	616.4	602.5	5.5	2.2	1.1
52.5°	744.5	735.1	702.0	684.3	583.2	570.5	4.4	1.1	0.6
55°	715.2	704.7	671.6	639.5	548.4	534.1	3.3	1.1	0.6
57.5°	682.6	671.0	639.5	597.0	511.4	361.2	2.2	1.1	0.6
60°	648.4	636.8	605.3	557.3	473.9	24.9	1.1	1.1	0.6
62.5°	611.9	599.8	569.4	516.9	433.5	20.4	1.1	1.1	1.1
65°	573.8	559.5	531.9	475.5	393.2	17.1	1.1	1.1	1.1
67.5°	535.7	517.5	491.5	433.0	351.8	14.4	1.1	1.1	1.1
70°	495.4	475.5	448.5	389.9	308.2	11.6	1.1	1.1	1.1
72.5°	454.0	434.6	405.4	346.3	267.3	8.8	1.1	1.1	1.1
75°	410.3	392.7	361.2	302.7	223.1	6.6	2.2	1.1	1.1
77.5°	365.1	351.3	315.9	257.9	180.0	4.4	2.2	1.1	1.1
80°	323.1	307.6	271.2	212.6	138.6	3.3	2.2	1.7	1.1
82.5°	280.0	266.2	229.8	171.2	99.4	2.8	2.2	1.7	1.1
85°	241.3	228.1	191.1	133.7	65.2	2.2	1.7	1.7	1.1
87.5°	207.1	195.0	158.5	97.8	37.0	1.7	1.7	1.7	1.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P892628
 CATALOG NUMBER: 2MB-3SL-ASYMR-UNV-L950

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	25.74	27.35	26.10	27.67	27.98	21.17	22.79	21.54	23.10	23.41
	3H	28.19	29.65	28.56	29.98	30.34	21.81	23.28	22.19	23.61	23.97
	4H	29.31	30.69	29.71	31.04	31.42	21.96	23.34	22.36	23.69	24.06
	6H	30.40	31.69	30.81	32.05	32.44	22.00	23.28	22.41	23.65	24.04
	8H	30.93	32.16	31.36	32.55	32.95	21.99	23.22	22.41	23.60	24.00
	12H	31.50	32.68	31.93	33.06	33.49	21.97	23.15	22.40	23.53	23.96
4H	2H	26.40	27.78	26.79	28.13	28.50	22.30	23.68	22.70	24.03	24.40
	3H	29.09	30.25	29.49	30.65	31.05	23.64	24.81	24.05	25.21	25.61
	4H	30.38	31.44	30.81	31.86	32.29	24.18	25.24	24.61	25.65	26.09
	6H	31.66	32.60	32.12	33.04	33.49	24.45	25.39	24.90	25.83	26.28
	8H	32.29	33.17	32.75	33.61	34.07	24.49	25.37	24.95	25.81	26.27
	12H	32.98	33.77	33.46	34.24	34.71	24.50	25.29	24.98	25.77	26.24
8H	4H	30.74	31.62	31.20	32.06	32.53	25.12	26.00	25.58	26.44	26.91
	6H	32.23	32.96	32.72	33.45	33.93	25.71	26.45	26.21	26.94	27.41
	8H	33.01	33.68	33.52	34.18	34.66	25.89	26.56	26.40	27.06	27.55
	12H	33.90	34.49	34.41	34.98	35.54	25.99	26.59	26.50	27.08	27.63
12H	4H	30.78	31.58	31.26	32.05	32.52	25.34	26.13	25.82	26.61	27.08
	6H	32.32	32.98	32.82	33.49	33.97	26.06	26.73	26.57	27.23	27.72
	8H	33.20	33.79	33.70	34.28	34.84	26.38	26.97	26.88	27.46	28.02