

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: P892667

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892667
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-3SL-LVRF-UNV-L940
Description: 3000 Lumen 2FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 90CRI, 4000K C
Light Source: -
Ballast/Driver: -

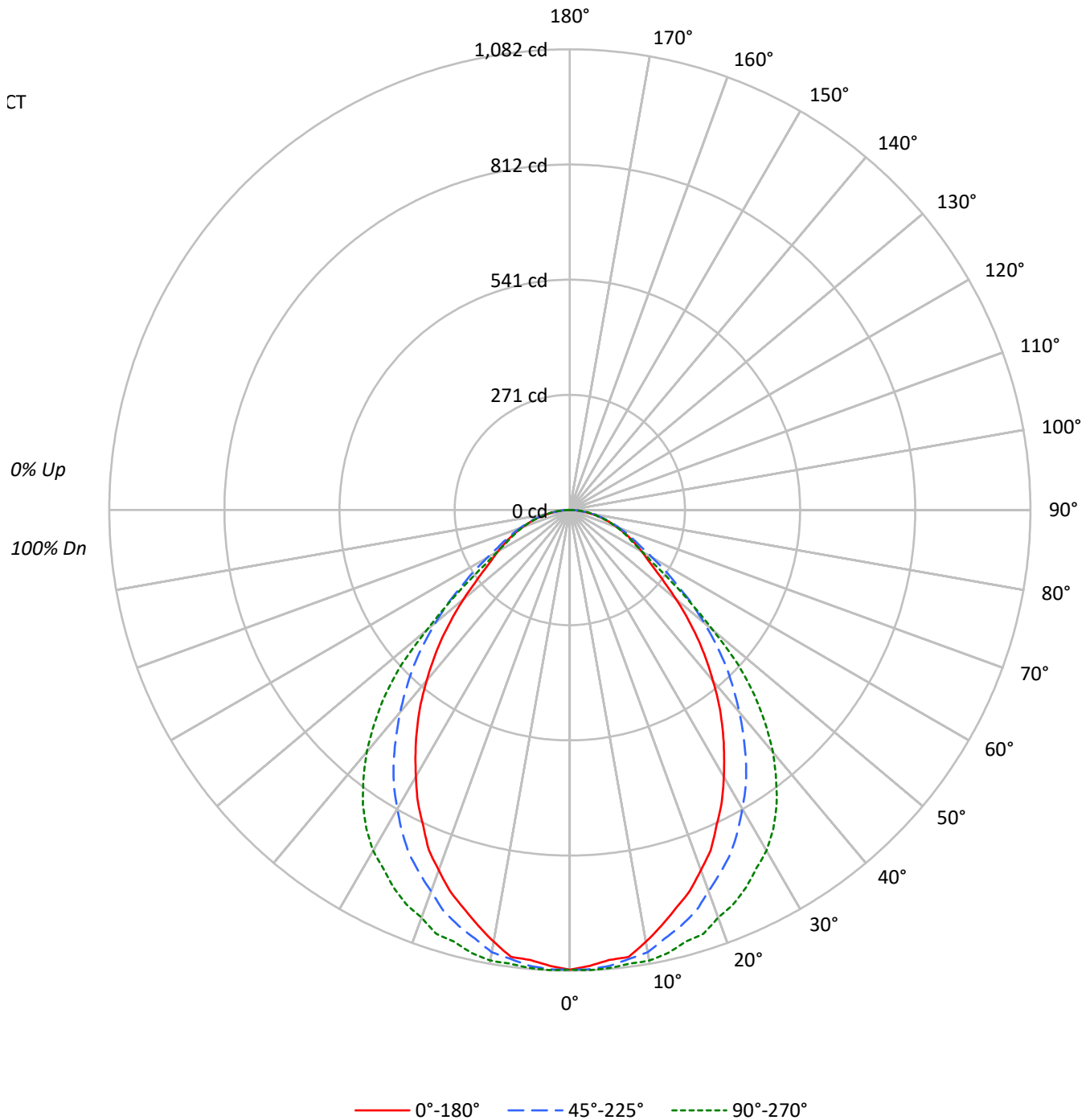
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2188.0 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Spacing Criteria (0/90/45): 1.04 / 1.26 / 1.21
Luminous Opening: Rectangular (W 0.38' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 21
Input Voltage (V): 120
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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	100	
1	110	106	102	99	108	104	100	97	100	97	94	96	94	91	92	90	89	87	87	
2	102	94	88	83	99	93	87	82	89	84	80	86	82	79	83	80	77	75	75	
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65	65	
4	87	76	68	62	84	75	67	62	72	66	61	70	64	60	68	63	59	57	57	
5	80	69	61	54	78	68	60	54	66	59	54	64	58	53	62	57	53	51	51	
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	45	45	
7	70	57	49	43	68	56	49	43	55	48	43	54	47	43	52	47	42	41	41	
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	37	37	
9	61	49	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	33	33	
10	57	45	38	33	56	45	37	33	44	37	32	43	37	32	42	36	32	31	31	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15444	15444	15444
5°	15230	15431	15503
10°	14958	15319	15610
15°	14318	14969	15545
20°	13701	14505	15508
25°	12883	14080	15450
30°	11950	13383	15261
35°	10925	12598	14794
40°	9763	11571	13862
45°	8558	10496	12394
50°	7240	9149	9748
55°	6120	7689	7143
60°	5596	6423	5625
65°	5301	5639	5101
70°	4965	5216	4881
75°	4632	4908	4687
80°	4276	4605	4523
85°	3759	4087	4908

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 12394 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.9	4.7
10°-20°	285.0	13.0
20°-30°	410.8	18.8
30°-40°	453.1	20.7
40°-50°	396.6	18.1
50°-60°	260.6	11.9
60°-70°	159.3	7.3
70°-80°	92.1	4.2
80°-90°	28.6	1.3
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°	797.6	36.5
0°-40°	1250.7	57.2
0°-60°	1908.0	87.2
0°-90°	2188.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2188.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1080	1080	1080	1080	1080	
5°	1061	1072	1075	1081	1080	101
15°	967	983	1011	1044	1050	272
25°	816	844	892	946	979	376
35°	626	652	721	801	847	390
45°	423	449	519	583	613	326
55°	245	258	308	309	286	224
65°	157	157	167	160	151	155
75°	84	84	89	91	85	89
85°	23	23	25	27	30	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1079.6	1079.6	1079.6	1079.6	1079.6
2.5°	1071.6	1077.6	1079.6	1083.6	1081.6
5°	1060.6	1071.6	1074.6	1080.6	1079.6
7.5°	1058.6	1054.6	1063.6	1075.6	1074.6
10°	1029.7	1037.7	1054.6	1072.6	1074.6
12.5°	998.7	1011.7	1030.7	1061.6	1065.6
15°	966.8	982.8	1010.7	1043.6	1049.6
17.5°	937.9	953.8	986.8	1023.7	1043.6
20°	900.0	921.9	952.8	998.7	1018.7
22.5°	865.0	883.0	922.9	972.8	1002.7
25°	816.2	844.1	892.0	945.9	978.8
27.5°	773.3	799.2	853.1	912.9	948.9
30°	723.4	752.3	810.2	877.0	923.9
32.5°	674.5	701.4	769.3	838.1	889.0
35°	625.6	652.5	721.4	801.2	847.1
37.5°	575.7	603.6	670.5	752.3	796.2
40°	522.8	554.7	619.6	700.4	742.3
42.5°	472.9	502.9	568.7	647.5	679.5
45°	423.0	449.0	518.8	582.7	612.6
47.5°	373.2	398.1	465.0	517.8	534.8
50°	325.3	348.2	411.1	444.0	438.0
52.5°	280.4	301.3	361.2	374.2	357.2
55°	245.4	258.4	308.3	309.3	286.4
57.5°	216.5	226.5	265.4	255.4	230.5
60°	195.6	198.6	224.5	213.5	196.6
62.5°	174.6	176.6	190.6	182.6	169.6
65°	156.6	156.6	166.6	159.6	150.7
67.5°	136.7	137.7	144.7	140.7	133.7
70°	118.7	118.7	124.7	124.7	116.7
72.5°	100.8	100.8	105.8	106.8	101.8
75°	83.8	83.8	88.8	90.8	84.8
77.5°	67.8	67.8	71.8	74.8	67.8
80°	51.9	51.9	55.9	58.9	54.9
82.5°	36.9	37.9	39.9	42.9	42.9
85°	22.9	22.9	24.9	26.9	29.9
87.5°	10.0	11.0	12.0	13.0	15.0
90°	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	16.92	18.40	17.29	18.71	19.03	17.67	19.14	18.03	19.46	19.77
	3H	18.52	19.84	18.90	20.17	20.53	19.01	20.33	19.39	20.66	21.02
	4H	19.14	20.38	19.54	20.72	21.10	19.58	20.82	19.98	21.17	21.55
	6H	19.61	20.76	20.03	21.12	21.52	20.04	21.18	20.45	21.55	21.94
	8H	19.77	20.86	20.20	21.25	21.65	20.22	21.31	20.65	21.70	22.10
	12H	19.88	20.92	20.31	21.30	21.73	20.37	21.41	20.80	21.79	22.22
4H	2H	17.55	18.79	17.95	19.14	19.51	18.15	19.38	18.55	19.73	20.11
	3H	19.36	20.38	19.77	20.78	21.18	19.75	20.78	20.16	21.18	21.58
	4H	20.09	21.01	20.53	21.43	21.87	20.48	21.40	20.91	21.82	22.26
	6H	20.69	21.49	21.15	21.93	22.40	21.09	21.89	21.55	22.34	22.80
	8H	20.89	21.64	21.36	22.09	22.56	21.33	22.08	21.79	22.52	22.99
	12H	21.04	21.71	21.53	22.19	22.66	21.53	22.20	22.01	22.68	23.15
8H	4H	20.40	21.15	20.87	21.60	22.06	20.75	21.50	21.21	21.94	22.41
	6H	21.13	21.75	21.63	22.24	22.72	21.50	22.12	22.00	22.62	23.09
	8H	21.41	21.97	21.92	22.48	22.97	21.83	22.39	22.34	22.90	23.39
	12H	21.63	22.13	22.14	22.62	23.18	22.12	22.62	22.63	23.11	23.68
12H	4H	20.44	21.11	20.92	21.58	22.06	20.77	21.44	21.25	21.91	22.39
	6H	21.19	21.75	21.71	22.26	22.75	21.55	22.11	22.07	22.62	23.11
	8H	21.53	22.03	22.04	22.52	23.09	21.94	22.43	22.45	22.92	23.49