

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: P893415

Luminaire Tested: 4MB-3SL-LVR-UNV-L940

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893415
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-8)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4MB-3SL-LVR-UNV-L940
Description: 3000 Lumen 4FT MICROBAY LINEAR BAY with LOUVER, 90CRI, 4000K CCT
Light Source: -
Ballast/Driver: -

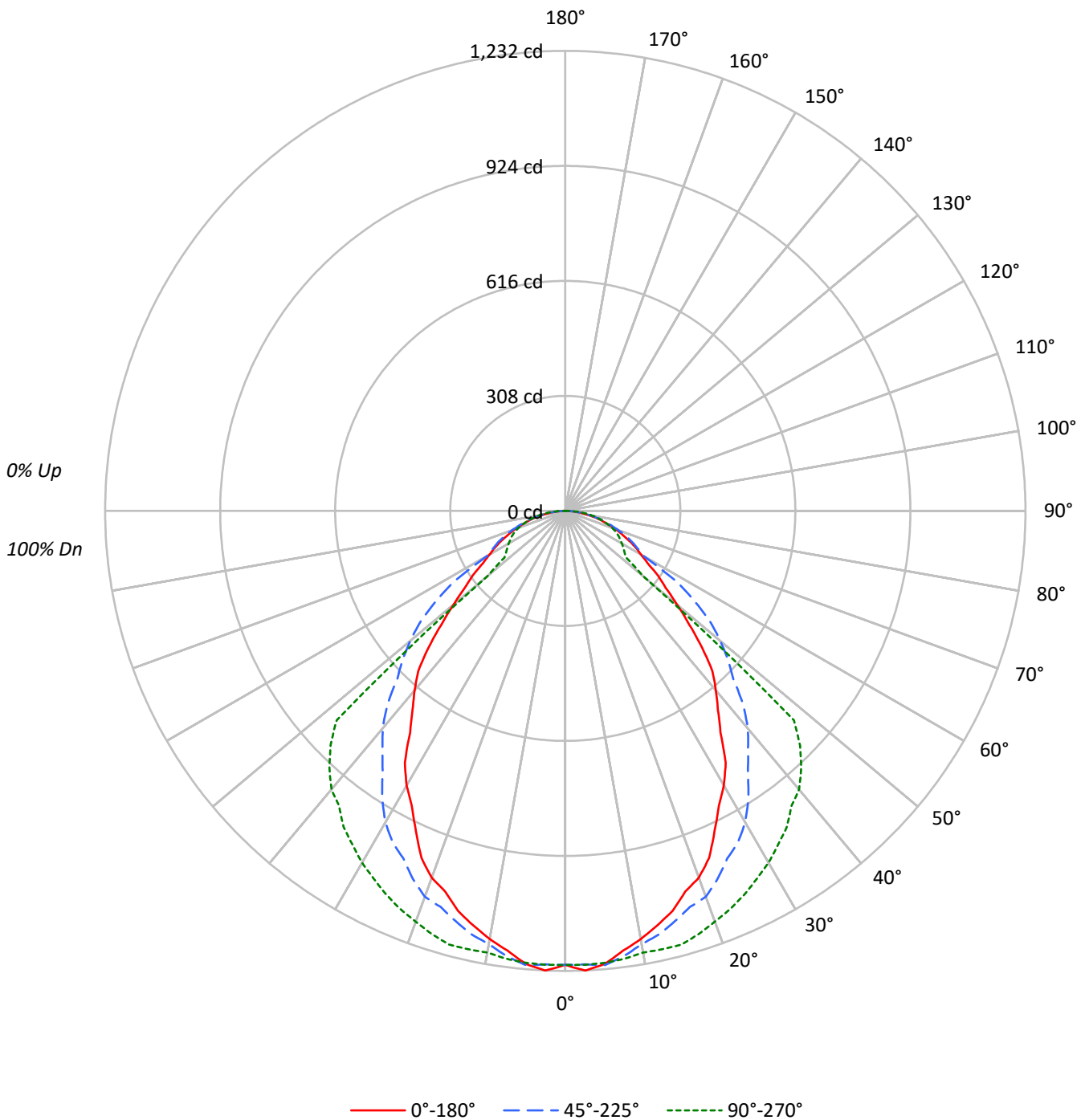
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2595.0 lumens
Efficiency: N/A
Efficacy: 123.0 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.32 / 1.27
Luminous Opening: Rectangular (W 0.38' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 21.1
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 5.2
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P893415
CATALOG NUMBER: 4MB-3SL-LVR-UNV-L940

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	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	89	89	89	87
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	77	77	77	75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	67	67	67	65
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	59	59	59	57
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	57	52	52	52	52	50
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	47	47	47	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	42	42	42	40
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	38	38	38	36
9	61	48	40	35	59	48	40	35	47	40	35	45	39	35	44	39	35	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8652	8652	8652
5°	8698	8721	8676
10°	8413	8511	8678
15°	8170	8376	8857
20°	7914	8328	8864
25°	7426	8059	8903
30°	6975	7914	8939
35°	6289	7401	8982
40°	5826	7061	9045
45°	5212	6400	8942
50°	4324	5995	3004
55°	3767	5262	2404
60°	3331	3429	2492
65°	3168	3335	2645
70°	2971	3152	2790
75°	2766	2972	2867
80°	2520	2798	3003
85°	2229	2384	3241

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 8942 cd/sqm



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 CATALOG NUMBER: 4MB-3SL-LVR-UNV-L940

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.3	4.4
10°-20°	324.5	12.5
20°-30°	477.3	18.4
30°-40°	545.8	21.0
40°-50°	516.9	19.9
50°-60°	284.8	11.0
60°-70°	182.8	7.0
70°-80°	112.9	4.3
80°-90°	34.7	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°	917.1	35.3
0°-40°	1463.0	56.4
0°-60°	2264.6	87.3
0°-90°	2595.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2595.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1216	1216	1216	1216	1216	
5°	1218	1228	1221	1221	1215	114
15°	1109	1123	1137	1197	1202	311
25°	946	988	1027	1094	1134	436
35°	724	786	852	976	1034	458
45°	518	567	636	816	889	396
55°	304	319	424	219	194	272
65°	188	194	198	176	157	186
75°	101	102	108	114	104	107
85°	27	27	29	34	40	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1216.0	1216.0	1216.0	1216.0	1216.0
2.5°	1232.2	1235.3	1215.4	1214.8	1216.6
5°	1217.9	1227.8	1221.0	1221.0	1214.8
7.5°	1187.5	1204.2	1202.4	1216.6	1209.8
10°	1164.5	1178.1	1178.1	1215.4	1201.1
12.5°	1137.1	1152.7	1161.4	1200.5	1202.4
15°	1109.2	1122.9	1137.1	1196.8	1202.4
17.5°	1068.8	1093.7	1111.7	1170.1	1188.1
20°	1045.2	1060.1	1099.9	1147.1	1170.7
22.5°	1006.1	1027.8	1066.3	1119.1	1153.9
25°	945.9	988.1	1026.6	1093.7	1134.0
27.5°	890.0	921.6	1001.1	1071.9	1110.4
30°	849.0	873.8	963.3	1040.3	1088.1
32.5°	799.3	839.7	912.3	1009.2	1060.1
35°	724.1	786.3	852.1	975.7	1034.1
37.5°	671.4	714.2	803.6	940.9	994.9
40°	627.3	666.4	760.2	897.4	973.8
42.5°	583.2	614.8	705.5	865.1	934.7
45°	518.0	567.0	636.0	816.1	888.7
47.5°	449.6	501.8	590.6	774.5	830.3
50°	390.6	432.3	541.6	691.9	271.4
52.5°	339.1	377.6	489.4	250.3	204.9
55°	303.7	318.6	424.2	218.6	193.8
57.5°	261.5	285.7	355.9	208.1	183.8
60°	234.1	244.7	241.0	197.5	175.1
62.5°	212.4	219.9	218.6	186.9	165.2
65°	188.2	194.4	198.1	176.4	157.1
67.5°	164.0	169.5	175.1	163.3	145.9
70°	142.8	146.6	151.5	147.8	134.1
72.5°	121.1	125.5	128.6	131.7	118.6
75°	100.6	102.5	108.1	113.7	104.3
77.5°	82.0	83.8	87.6	93.8	88.8
80°	61.5	63.3	68.3	73.3	73.3
82.5°	43.5	44.7	47.8	54.7	57.8
85°	27.3	27.3	29.2	33.5	39.7
87.5°	10.6	10.6	12.4	14.9	19.9
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	15.45	16.93	15.81	17.24	17.56	13.25	14.73	13.62	15.05	15.36
	3H	16.97	18.30	17.35	18.63	18.99	15.58	16.91	15.96	17.23	17.60
	4H	17.57	18.81	17.97	19.16	19.54	16.53	17.77	16.93	18.12	18.50
	6H	18.02	19.17	18.44	19.54	19.93	17.31	18.46	17.73	18.83	19.22
	8H	18.17	19.26	18.59	19.65	20.05	17.63	18.72	18.05	19.11	19.51
	12H	18.26	19.31	18.69	19.69	20.12	17.87	18.92	18.30	19.30	19.73
4H	2H	16.00	17.24	16.40	17.59	17.97	14.35	15.60	14.75	15.95	16.33
	3H	17.77	18.80	18.18	19.20	19.60	16.80	17.83	17.21	18.23	18.63
	4H	18.49	19.42	18.92	19.83	20.27	17.87	18.79	18.30	19.21	19.65
	6H	19.08	19.88	19.53	20.32	20.78	18.75	19.56	19.21	20.00	20.46
	8H	19.26	20.02	19.73	20.46	20.93	19.11	19.86	19.57	20.30	20.77
	12H	19.40	20.07	19.88	20.55	21.02	19.39	20.07	19.88	20.55	21.02
8H	4H	18.80	19.55	19.26	19.99	20.46	18.25	19.01	18.72	19.45	19.92
	6H	19.51	20.13	20.01	20.62	21.10	19.29	19.91	19.79	20.40	20.88
	8H	19.77	20.33	20.28	20.84	21.33	19.73	20.30	20.25	20.81	21.29
	12H	19.98	20.48	20.49	20.97	21.53	20.12	20.62	20.63	21.11	21.67
12H	4H	18.83	19.51	19.32	19.99	20.46	18.29	18.96	18.77	19.44	19.91
	6H	19.57	20.14	20.09	20.65	21.13	19.35	19.91	19.87	20.43	20.91
	8H	19.89	20.39	20.40	20.88	21.45	19.86	20.36	20.37	20.85	21.42