

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: P894255

Luminaire Tested: 4MB-SC3-LVRA-UNV-CC93-LOW-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894255
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-26)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4MB-SC3-LVRA-UNV-CC93-LOW-3500K
Description: Selectable 4FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 90CRI, 3500K CCT, LO lumen setting
Light Source: -
Ballast/Driver: -

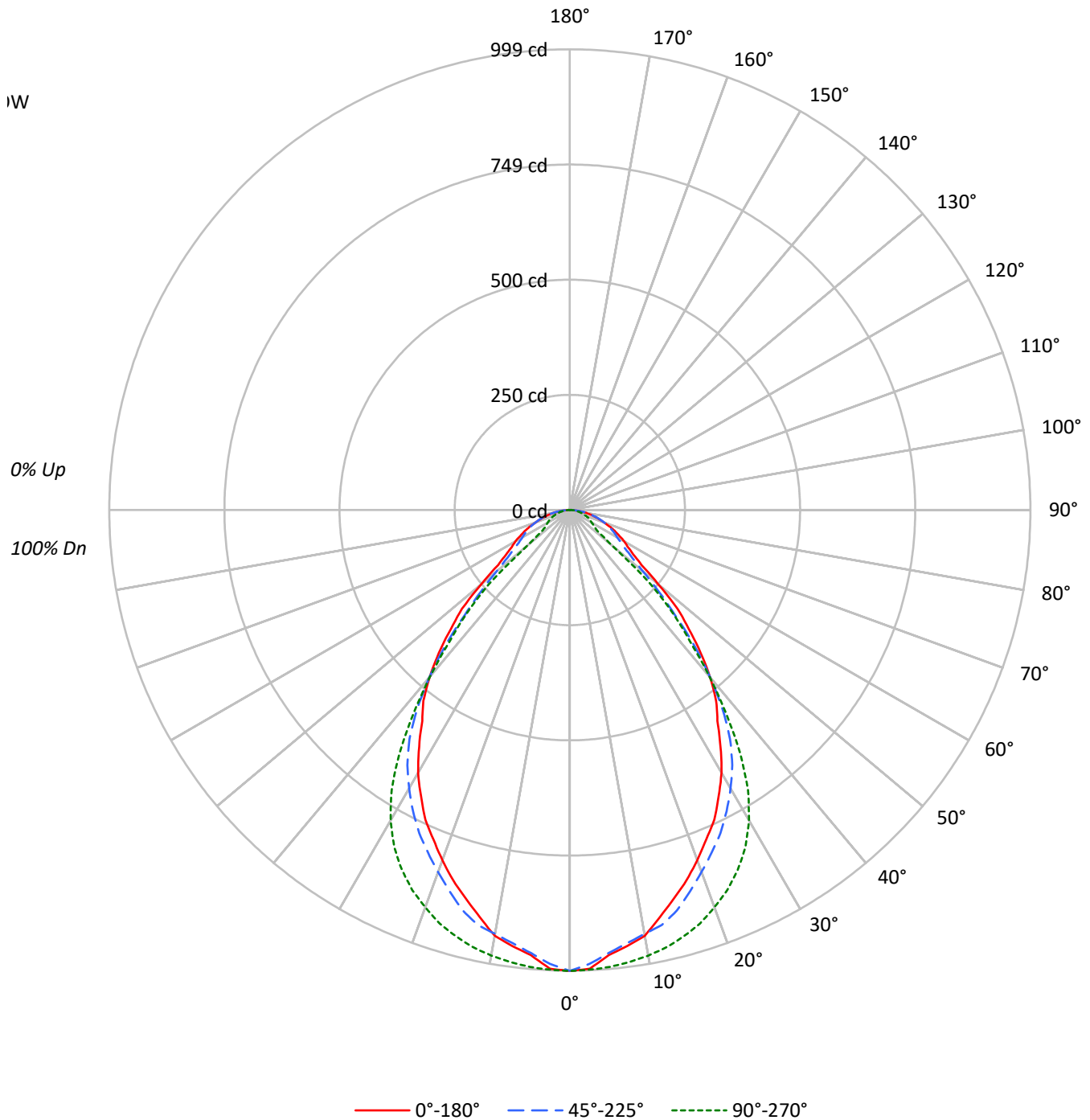
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1622.0 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.16 / 1.12
Luminous Opening: Rectangular (W 0.38' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 16.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.9915
Total Harmonic Distortion (THDi): 6.67573310469889
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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	90	90	90	88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	80	80	80	78
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	71	71	71	69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	63	63	63	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	57	57	57	55
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	52	52	52	50
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	47	47	47	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	43	43	43	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	40	40	40	38
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	37	37	37	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7111	7111	7111
5°	6919	6888	7103
10°	6772	6742	7087
15°	6422	6620	7046
20°	6118	6325	6939
25°	5820	6068	6762
30°	5407	5729	6384
35°	4848	5264	5600
40°	4392	4402	4378
45°	3673	3253	3173
50°	2774	2289	1297
55°	2086	1831	817
60°	1940	1686	788
65°	1805	1682	790
70°	1650	1650	776
75°	1564	1608	750
80°	1446	1520	770
85°	1265	1322	841

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 3758 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.3	5.7
10°-20°	254.4	15.7
20°-30°	360.7	22.2
30°-40°	371.6	22.9
40°-50°	259.6	16.0
50°-60°	124.6	7.7
60°-70°	87.4	5.4
70°-80°	54.6	3.4
80°-90°	16.9	1.0
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°	707.4	43.6
0°-40°	1079.0	66.5
0°-60°	1463.1	90.2
0°-90°	1622.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1622.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	999	999	999	999	999	
5°	969	968	964	990	994	92
15°	872	878	899	924	957	246
25°	741	749	773	825	861	339
35°	558	573	606	619	645	352
45°	365	374	323	307	315	281
55°	168	160	148	94	66	158
65°	107	100	100	76	47	106
75°	57	56	58	50	27	60
85°	16	16	16	16	10	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	999.4	999.4	999.4	999.4	999.4
2.5°	995.5	992.5	985.0	998.6	997.6
5°	968.8	967.5	964.4	989.6	994.5
7.5°	953.6	951.0	947.4	975.2	988.8
10°	937.3	940.4	933.2	958.7	980.9
12.5°	903.8	912.1	921.9	941.7	971.1
15°	871.9	878.3	898.7	924.5	956.6
17.5°	842.0	849.5	867.0	905.6	939.9
20°	808.0	818.3	835.3	884.8	916.5
22.5°	773.0	782.5	803.9	857.0	892.3
25°	741.3	748.8	773.0	825.3	861.3
27.5°	699.3	713.2	736.2	786.6	824.5
30°	658.1	670.0	697.3	739.8	777.1
32.5°	608.4	625.7	655.8	688.3	719.4
35°	558.2	573.4	606.1	618.7	644.7
37.5°	521.6	525.7	544.3	542.7	557.4
40°	472.9	481.2	473.9	454.6	471.4
42.5°	420.4	430.2	401.1	378.6	384.6
45°	365.0	373.5	323.3	306.8	315.3
47.5°	317.1	316.3	260.7	249.6	237.7
50°	250.6	258.9	206.8	186.2	117.2
52.5°	195.8	198.9	170.5	119.0	77.0
55°	168.2	160.0	147.6	94.5	65.9
57.5°	149.4	139.1	130.9	87.8	60.3
60°	136.3	124.7	118.5	83.5	55.4
62.5°	121.3	112.3	110.0	79.6	51.0
65°	107.2	100.2	99.9	76.0	46.9
67.5°	93.0	89.1	90.2	71.6	42.2
70°	79.3	78.6	79.3	65.9	37.3
72.5°	67.7	67.0	69.0	58.7	31.9
75°	56.9	56.2	58.5	50.5	27.3
77.5°	45.3	45.8	47.4	42.0	22.9
80°	35.3	35.3	37.1	33.0	18.8
82.5°	25.2	25.5	26.5	24.2	14.7
85°	15.5	15.5	16.2	16.0	10.3
87.5°	5.2	5.9	7.0	7.5	5.2
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	12.46	13.82	12.83	14.13	14.44	8.79	10.15	9.16	10.46	10.77
	3H	14.20	15.41	14.58	15.74	16.10	10.77	11.97	11.15	12.30	12.67
	4H	14.87	16.00	15.27	16.35	16.73	11.47	12.60	11.87	12.95	13.33
	6H	15.38	16.42	15.79	16.79	17.18	12.00	13.03	12.41	13.40	13.80
	8H	15.55	16.53	15.98	16.93	17.33	12.18	13.17	12.61	13.56	13.96
	12H	15.66	16.60	16.09	16.98	17.41	12.32	13.26	12.75	13.65	14.08
4H	2H	12.99	14.12	13.39	14.47	14.85	10.41	11.54	10.82	11.89	12.27
	3H	14.97	15.90	15.38	16.30	16.71	12.59	13.52	13.00	13.92	14.33
	4H	15.77	16.61	16.21	17.03	17.47	13.47	14.31	13.91	14.73	15.17
	6H	16.41	17.14	16.88	17.58	18.05	14.12	14.84	14.58	15.29	15.75
	8H	16.63	17.31	17.10	17.76	18.23	14.32	15.00	14.79	15.45	15.92
	12H	16.79	17.39	17.27	17.87	18.34	14.48	15.08	14.97	15.56	16.04
8H	4H	16.06	16.73	16.52	17.18	17.65	14.12	14.80	14.59	15.24	15.71
	6H	16.84	17.39	17.34	17.89	18.37	14.98	15.54	15.48	16.03	16.51
	8H	17.14	17.64	17.66	18.15	18.64	15.31	15.81	15.83	16.32	16.82
	12H	17.38	17.82	17.89	18.31	18.88	15.58	16.02	16.09	16.51	17.08
12H	4H	16.07	16.67	16.56	17.16	17.63	14.19	14.79	14.68	15.28	15.75
	6H	16.89	17.39	17.41	17.90	18.40	15.12	15.62	15.64	16.13	16.63
	8H	17.26	17.70	17.77	18.19	18.76	15.53	15.97	16.05	16.47	17.04