

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: P894252

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894252
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-HI-3500K
Description: Selectable 4FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 90CRI, 3500K CCT, HI lumen setting
Light Source: -
Ballast/Driver: -

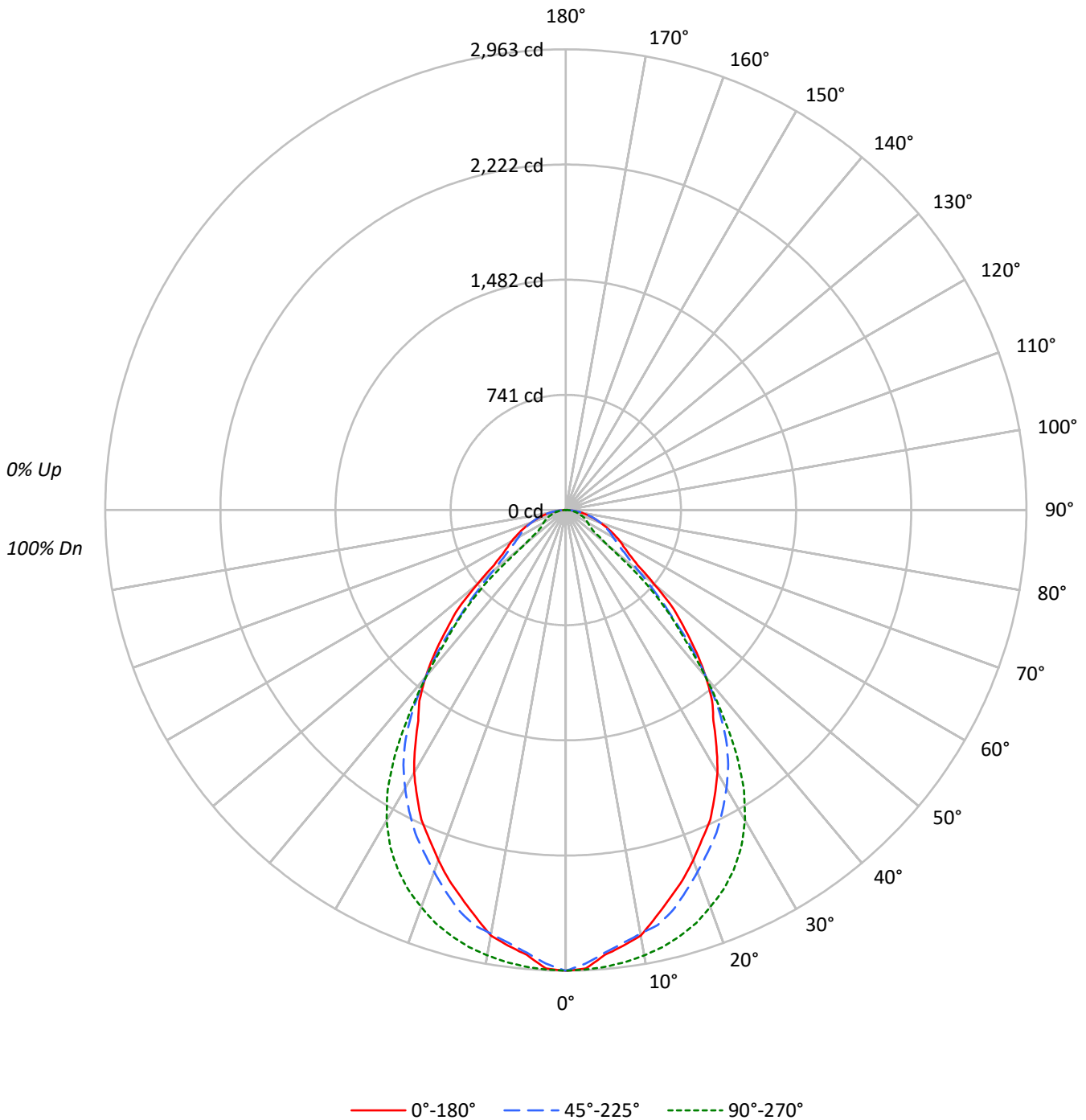
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4809.0 lumens
Efficiency: N/A
Efficacy: 94.9 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): 50.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 5.39961257980444
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P894252
CATALOG NUMBER: 4MB-SC3-LVRA-UNV-CC93-HI-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P894252

CATALOG NUMBER: 4MB-SC3-LVRA-UNV-CC93-HI-3500K

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°	21082	21082	21082
5°	20514	20421	21059
10°	20078	19989	21010
15°	19042	19627	20892
20°	18139	18752	20574
25°	17255	17992	20049
30°	16030	16984	18929
35°	14374	15608	16603
40°	13023	13051	12980
45°	10888	9644	9406
50°	8225	6787	3846
55°	6186	5428	2425
60°	5749	4999	2337
65°	5349	4988	2340
70°	4893	4893	2303
75°	4640	4767	2227
80°	4286	4507	2282
85°	3739	3927	2490

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 11142 cd/sqm



TEST NUMBER: P894252
 CATALOG NUMBER: 4MB-SC3-LVRA-UNV-CC93-HI-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.7	5.7
10°-20°	754.2	15.7
20°-30°	1069.4	22.2
30°-40°	1101.8	22.9
40°-50°	769.5	16.0
50°-60°	369.3	7.7
60°-70°	259.1	5.4
70°-80°	162.0	3.4
80°-90°	50.1	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°	2097.3	43.6
0°-40°	3199.1	66.5
0°-60°	4337.9	90.2
0°-90°	4809.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4809.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2963	2963	2963	2963	2963	
5°	2872	2868	2859	2934	2949	272
15°	2585	2604	2664	2741	2836	728
25°	2198	2220	2292	2447	2554	1005
35°	1655	1700	1797	1834	1912	1043
45°	1082	1107	958	910	935	834
55°	499	474	438	280	196	467
65°	318	297	296	225	139	315
75°	169	166	173	150	81	178
85°	46	46	48	47	30	51
90°	0	0	0	0	0	



TEST NUMBER: P894252

CATALOG NUMBER: 4MB-SC3-LVRA-UNV-CC93-HI-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2963.1	2963.1	2963.1	2963.1	2963.1
2.5°	2951.6	2942.5	2920.3	2960.8	2957.8
5°	2872.2	2868.4	2859.2	2934.1	2948.6
7.5°	2827.2	2819.5	2808.8	2891.3	2931.8
10°	2779.1	2788.2	2766.8	2842.4	2908.1
12.5°	2679.8	2704.2	2733.2	2792.0	2879.1
15°	2585.1	2604.2	2664.5	2740.9	2836.3
17.5°	2496.5	2518.6	2570.6	2685.1	2786.7
20°	2395.7	2426.2	2476.6	2623.3	2717.2
22.5°	2291.8	2320.1	2383.5	2540.8	2645.4
25°	2197.9	2220.0	2291.8	2446.8	2553.8
27.5°	2073.4	2114.6	2182.6	2332.3	2444.6
30°	1951.2	1986.3	2067.3	2193.3	2304.0
32.5°	1803.8	1855.0	1944.3	2040.6	2133.0
35°	1654.9	1700.0	1797.0	1834.4	1911.5
37.5°	1546.5	1558.7	1613.7	1609.1	1652.6
40°	1402.1	1426.6	1405.2	1347.9	1397.5
42.5°	1246.3	1275.4	1189.1	1122.6	1140.2
45°	1082.1	1107.3	958.4	909.5	934.8
47.5°	940.1	937.8	772.9	740.0	704.9
50°	743.1	767.5	613.2	552.1	347.5
52.5°	580.4	589.6	505.6	352.8	228.3
55°	498.7	474.2	437.6	280.3	195.5
57.5°	442.9	412.4	388.0	260.4	178.7
60°	404.0	369.6	351.3	247.4	164.2
62.5°	359.7	333.0	326.1	236.0	151.2
65°	317.7	297.1	296.3	225.3	139.0
67.5°	275.7	264.2	267.3	212.3	125.2
70°	235.2	232.9	235.2	195.5	110.7
72.5°	200.8	198.6	204.7	174.1	94.7
75°	168.8	166.5	173.4	149.7	81.0
77.5°	134.4	135.9	140.5	124.5	68.0
80°	104.6	104.6	110.0	97.8	55.7
82.5°	74.8	75.6	78.7	71.8	43.5
85°	45.8	45.8	48.1	47.3	30.5
87.5°	15.3	17.6	20.6	22.1	15.3
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P894252
 CATALOG NUMBER: 4MB-SC3-LVRA-UNV-CC93-HI-3500K

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	16.24	17.59	16.60	17.90	18.22	12.57	13.92	12.94	14.24	14.55
	3H	17.98	19.18	18.36	19.51	19.88	14.55	15.75	14.93	16.08	16.45
	4H	18.65	19.78	19.05	20.13	20.51	15.25	16.38	15.65	16.73	17.11
	6H	19.15	20.19	19.57	20.56	20.96	15.77	16.81	16.19	17.18	17.58
	8H	19.33	20.31	19.76	20.70	21.11	15.96	16.94	16.39	17.33	17.74
	12H	19.44	20.38	19.87	20.76	21.19	16.10	17.04	16.53	17.42	17.85
4H	2H	16.77	17.90	17.17	18.25	18.63	14.19	15.32	14.59	15.67	16.05
	3H	18.75	19.68	19.16	20.08	20.48	16.37	17.30	16.78	17.70	18.11
	4H	19.55	20.38	19.98	20.80	21.24	17.25	18.09	17.68	18.50	18.95
	6H	20.19	20.91	20.65	21.36	21.83	17.89	18.62	18.35	19.06	19.53
	8H	20.41	21.09	20.88	21.53	22.00	18.10	18.78	18.57	19.23	19.70
	12H	20.56	21.16	21.05	21.65	22.12	18.26	18.86	18.74	19.34	19.81
8H	4H	19.83	20.51	20.30	20.95	21.42	17.90	18.58	18.37	19.02	19.49
	6H	20.61	21.17	21.12	21.67	22.15	18.76	19.32	19.26	19.81	20.29
	8H	20.92	21.42	21.44	21.93	22.42	19.09	19.59	19.61	20.10	20.59
	12H	21.15	21.59	21.66	22.09	22.66	19.35	19.79	19.87	20.29	20.86
12H	4H	19.85	20.45	20.33	20.93	21.40	17.97	18.57	18.46	19.05	19.53
	6H	20.67	21.17	21.19	21.68	22.17	18.90	19.40	19.42	19.91	20.40
	8H	21.03	21.47	21.55	21.97	22.54	19.31	19.75	19.83	20.25	20.82