

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: P894253

Luminaire Tested: 4MB-SC3-LVRA-UNV-CC93-HI-4000K

Issue Date: 11/11/2024

**Test Information**

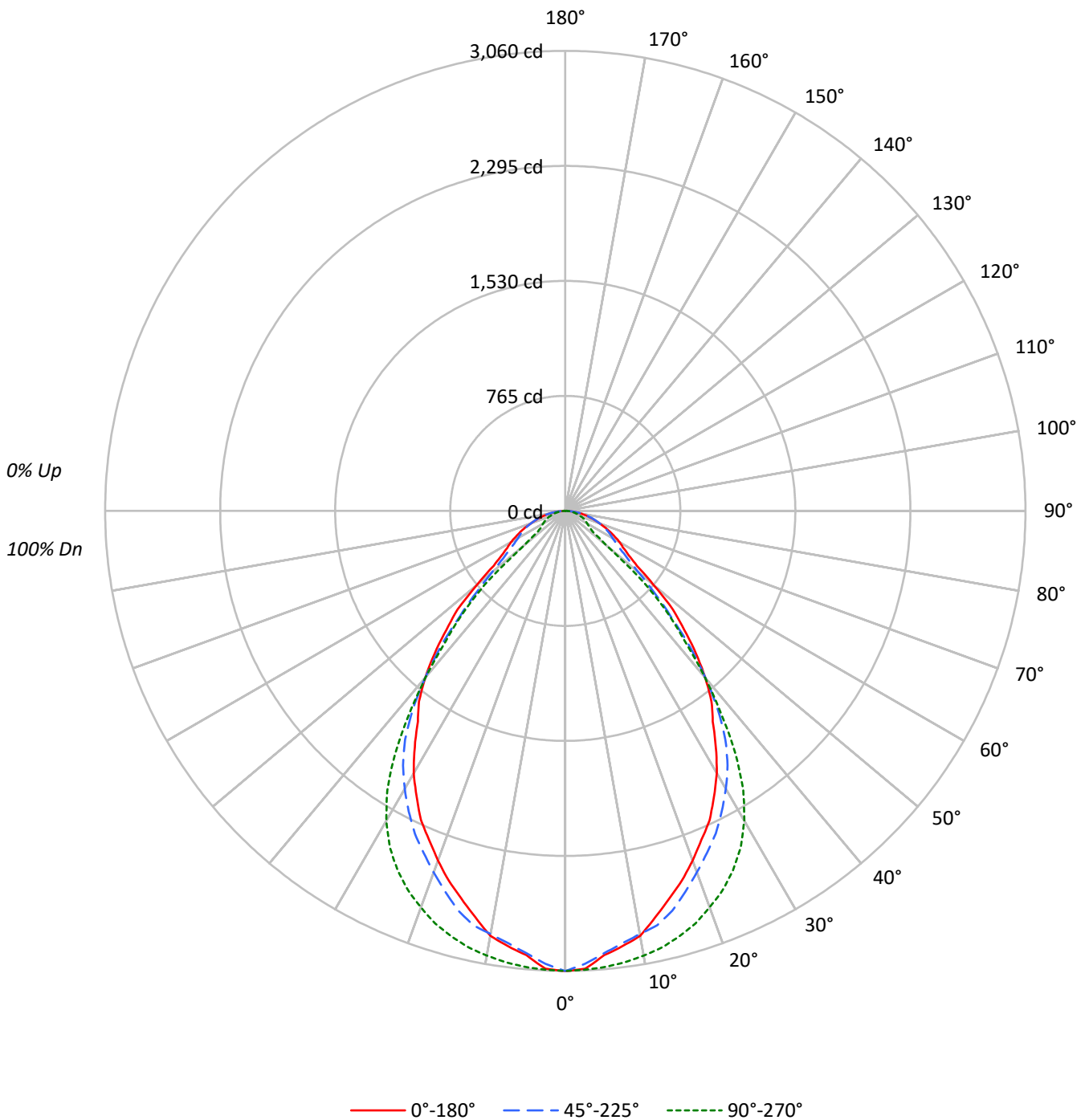
Test Method: LM-79-2019  
Report Number: P894253  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-26)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 4MB-SC3-LVRA-UNV-CC93-HI-4000K  
Description: Selectable 4FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 90CRI, 4000K CCT, HI lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4967.0 lumens  
Efficiency: N/A  
Efficacy: 98.0 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

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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	93	92	90	88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	85	82	80	78
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	78	74	71	69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	71	67	63	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	66	61	57	55
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	61	56	52	50
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	52	47	43	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	49	44	40	38
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	46	40	37	35

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	21775	21775	21775
5°	21188	21092	21751
10°	20738	20646	21701
15°	19667	20271	21579
20°	18735	19368	21250
25°	17821	18583	20707
30°	16557	17542	19551
35°	14847	16121	17148
40°	13451	13480	13407
45°	11246	9960	9715
50°	8495	7011	3973
55°	6390	5607	2504
60°	5938	5163	2413
65°	5524	5152	2418
70°	5053	5053	2380
75°	4792	4924	2298
80°	4429	4655	2360
85°	3861	4057	2580

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 11508 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	282.7	5.7
10°-20°	779.0	15.7
20°-30°	1104.6	22.2
30°-40°	1137.9	22.9
40°-50°	794.8	16.0
50°-60°	381.4	7.7
60°-70°	267.6	5.4
70°-80°	167.3	3.4
80°-90°	51.7	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°	2166.2	43.6
0°-40°	3304.2	66.5
0°-60°	4480.4	90.2
0°-90°	4967.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4967.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3060	3060	3060	3060	3060	
5°	2967	2963	2953	3030	3046	281
15°	2670	2690	2752	2831	2930	752
25°	2270	2293	2367	2527	2638	1038
35°	1709	1756	1856	1895	1974	1077
45°	1118	1144	990	939	966	861
55°	515	490	452	290	202	483
65°	328	307	306	233	144	325
75°	174	172	179	155	84	184
85°	47	47	50	49	32	53
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3060.5	3060.5	3060.5	3060.5	3060.5
2.5°	3048.6	3039.2	3016.3	3058.1	3054.9
5°	2966.6	2962.6	2953.2	3030.5	3045.5
7.5°	2920.1	2912.2	2901.1	2986.3	3028.1
10°	2870.4	2879.8	2857.7	2935.8	3003.7
12.5°	2767.8	2793.1	2823.0	2883.8	2973.7
15°	2670.0	2689.7	2752.0	2830.9	2929.5
17.5°	2578.5	2601.4	2655.0	2773.3	2878.2
20°	2474.4	2505.9	2558.0	2709.4	2806.5
22.5°	2367.1	2396.3	2461.8	2624.3	2732.3
25°	2270.1	2293.0	2367.1	2527.2	2637.7
27.5°	2141.5	2184.1	2254.3	2408.9	2524.9
30°	2015.3	2051.6	2135.2	2265.4	2379.7
32.5°	1863.1	1915.9	2008.2	2107.6	2203.1
35°	1709.3	1755.8	1856.0	1894.6	1974.3
37.5°	1597.3	1609.9	1666.7	1662.0	1706.9
40°	1448.2	1473.4	1451.3	1392.2	1443.5
42.5°	1287.3	1317.3	1228.1	1159.5	1177.6
45°	1117.7	1143.7	989.9	939.4	965.5
47.5°	971.0	968.6	798.2	764.3	728.0
50°	767.5	792.7	633.4	570.3	358.9
52.5°	599.5	608.9	522.2	364.4	235.8
55°	515.1	489.8	452.0	289.5	201.9
57.5°	457.5	425.9	400.7	269.0	184.6
60°	417.3	381.8	362.8	255.6	169.6
62.5°	371.5	343.9	336.8	243.7	156.2
65°	328.1	306.8	306.0	232.7	143.6
67.5°	284.7	272.9	276.1	219.3	129.4
70°	242.9	240.6	242.9	201.9	114.4
72.5°	207.4	205.1	211.4	179.8	97.8
75°	174.3	172.0	179.1	154.6	83.6
77.5°	138.8	140.4	145.1	128.6	70.2
80°	108.1	108.1	113.6	101.0	57.6
82.5°	77.3	78.1	81.2	74.1	45.0
85°	47.3	47.3	49.7	48.9	31.6
87.5°	15.8	18.1	21.3	22.9	15.8
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	16.35	17.70	16.72	18.02	18.33	12.68	14.04	13.05	14.35	14.66
	3H	18.09	19.30	18.47	19.63	19.99	14.66	15.87	15.04	16.20	16.56
	4H	18.76	19.89	19.16	20.24	20.62	15.36	16.49	15.77	16.84	17.22
	6H	19.27	20.31	19.68	20.67	21.07	15.89	16.93	16.30	17.29	17.69
	8H	19.44	20.42	19.87	20.81	21.22	16.07	17.06	16.50	17.45	17.85
	12H	19.55	20.49	19.98	20.87	21.30	16.21	17.15	16.64	17.54	17.97
4H	2H	16.88	18.01	17.28	18.36	18.74	14.30	15.43	14.71	15.78	16.16
	3H	18.86	19.79	19.27	20.19	20.59	16.48	17.41	16.90	17.82	18.22
	4H	19.66	20.50	20.09	20.91	21.36	17.36	18.20	17.80	18.62	19.06
	6H	20.30	21.03	20.76	21.47	21.94	18.01	18.73	18.47	19.18	19.64
	8H	20.52	21.20	20.99	21.65	22.12	18.21	18.89	18.68	19.34	19.81
	12H	20.68	21.28	21.16	21.76	22.23	18.37	18.97	18.86	19.45	19.93
8H	4H	19.94	20.62	20.41	21.07	21.54	18.01	18.69	18.48	19.13	19.60
	6H	20.73	21.28	21.23	21.78	22.26	18.87	19.43	19.37	19.92	20.40
	8H	21.03	21.53	21.55	22.04	22.53	19.20	19.70	19.72	20.21	20.70
	12H	21.26	21.70	21.78	22.20	22.77	19.46	19.90	19.98	20.40	20.97
12H	4H	19.96	20.56	20.45	21.04	21.52	18.08	18.68	18.57	19.17	19.64
	6H	20.78	21.28	21.30	21.79	22.28	19.01	19.51	19.53	20.02	20.51
	8H	21.14	21.58	21.66	22.08	22.65	19.42	19.86	19.94	20.36	20.93