

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: P894235

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

Issue Date: 11/11/2024

**Test Information**

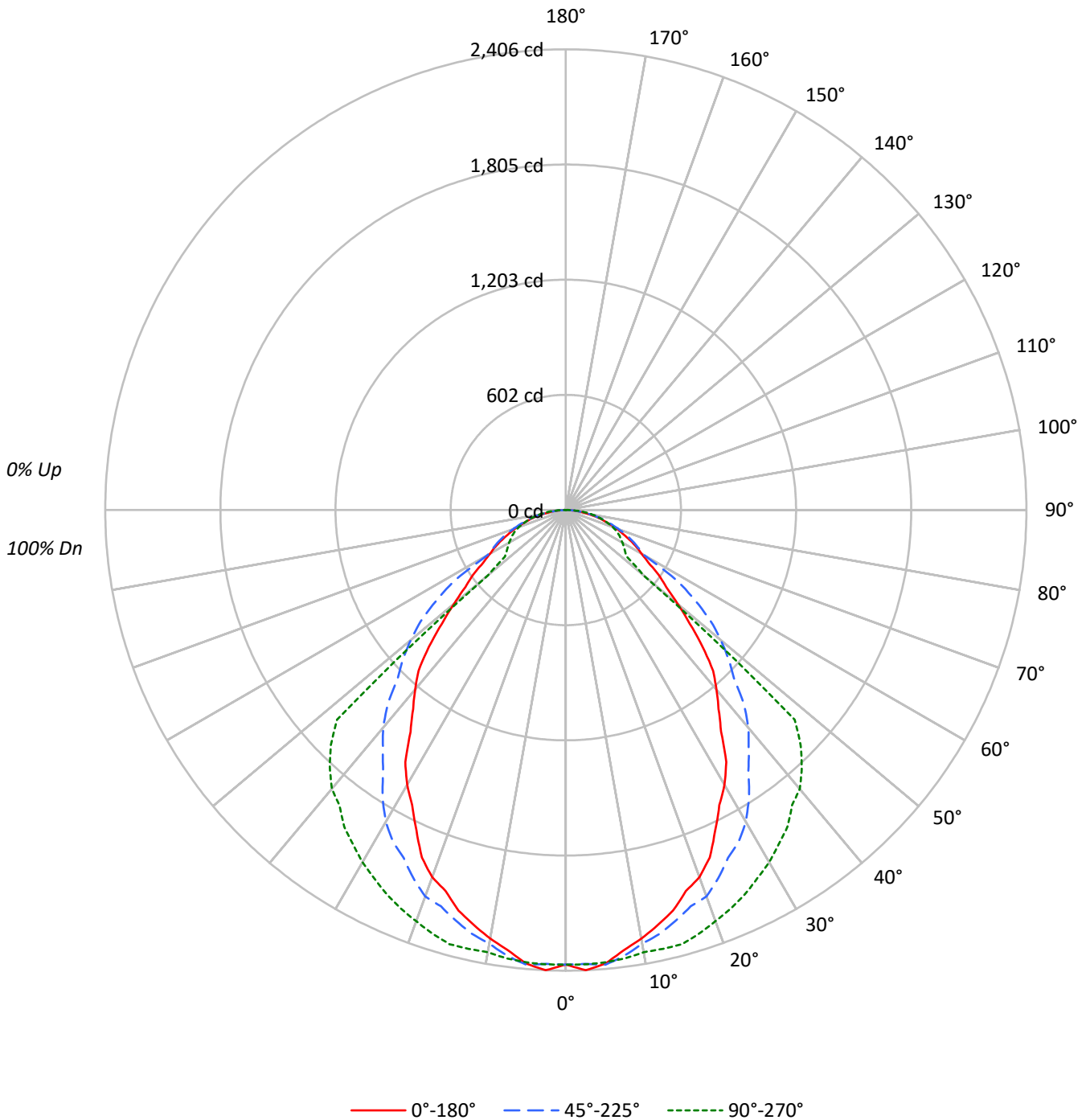
Test Method: LM-79-2019  
Report Number: P894235  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 4MB-SC3-LVR-UNV-CC93-HI-4000K  
Description: Selectable 4FT MICROBAY LINEAR BAY with LOUVER, 90CRI, 4000K CCT, HI lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5066.0 lumens  
Efficiency: N/A  
Efficacy: 99.9 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): 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	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°	16890	16890	16890
5°	16981	17024	16938
10°	16424	16617	16941
15°	15950	16352	17290
20°	15450	16258	17304
25°	14496	15733	17380
30°	13617	15450	17452
35°	12279	14449	17534
40°	11374	13783	17657
45°	10175	12492	17458
50°	8441	11702	5864
55°	7355	10272	4693
60°	6505	6694	4865
65°	6185	6512	5163
70°	5802	6153	5448
75°	5399	5800	5600
80°	4917	5466	5863
85°	4351	4653	6335

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 17458 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	225.2	4.4
10°-20°	633.4	12.5
20°-30°	931.8	18.4
30°-40°	1065.6	21.0
40°-50°	1009.0	19.9
50°-60°	555.9	11.0
60°-70°	356.9	7.0
70°-80°	220.3	4.3
80°-90°	67.8	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°	1790.4	35.3
0°-40°	2856.0	56.4
0°-60°	4421.0	87.3
0°-90°	5066.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5066.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2374	2374	2374	2374	2374	
5°	2378	2397	2384	2384	2372	223
15°	2165	2192	2220	2336	2347	608
25°	1846	1929	2004	2135	2214	850
35°	1414	1535	1664	1905	2019	894
45°	1011	1107	1242	1593	1735	773
55°	593	622	828	427	378	530
65°	367	380	387	344	307	364
75°	196	200	211	222	204	209
85°	53	53	57	66	78	60
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2373.9	2373.9	2373.9	2373.9	2373.9
2.5°	2405.5	2411.5	2372.7	2371.5	2375.1
5°	2377.6	2397.0	2383.6	2383.6	2371.5
7.5°	2318.2	2350.9	2347.3	2375.1	2361.8
10°	2273.3	2300.0	2300.0	2372.7	2344.8
12.5°	2220.0	2250.3	2267.2	2343.6	2347.3
15°	2165.4	2192.1	2220.0	2336.4	2347.3
17.5°	2086.6	2135.1	2170.2	2284.2	2319.4
20°	2040.5	2069.6	2147.2	2239.4	2285.4
22.5°	1964.1	2006.6	2081.7	2184.8	2252.7
25°	1846.5	1929.0	2004.1	2135.1	2213.9
27.5°	1737.4	1799.2	1954.4	2092.7	2167.8
30°	1657.4	1705.9	1880.5	2030.8	2124.2
32.5°	1560.4	1639.2	1781.1	1970.2	2069.6
35°	1413.7	1534.9	1663.5	1904.7	2018.7
37.5°	1310.6	1394.3	1568.9	1836.8	1942.3
40°	1224.6	1300.9	1484.0	1752.0	1901.1
42.5°	1138.5	1200.3	1377.3	1688.9	1824.7
45°	1011.2	1106.9	1241.5	1593.1	1735.0
47.5°	877.8	979.6	1153.0	1511.9	1621.0
50°	762.6	843.9	1057.2	1350.6	529.8
52.5°	662.0	737.2	955.4	488.6	400.1
55°	592.9	622.0	828.1	426.8	378.3
57.5°	510.4	557.7	694.7	406.2	358.9
60°	457.1	477.7	470.4	385.6	341.9
62.5°	414.7	429.2	426.8	364.9	322.5
65°	367.4	379.5	386.8	344.3	306.7
67.5°	320.1	331.0	341.9	318.9	284.9
70°	278.9	286.1	295.8	288.6	261.9
72.5°	236.4	244.9	251.0	257.0	231.6
75°	196.4	200.1	211.0	221.9	203.7
77.5°	160.0	163.7	171.0	183.1	173.4
80°	120.0	123.7	133.4	143.1	143.1
82.5°	84.9	87.3	93.4	106.7	112.8
85°	53.3	53.3	57.0	65.5	77.6
87.5°	20.6	20.6	24.2	29.1	38.8
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	17.77	19.25	18.14	19.57	19.88	15.57	17.06	15.94	17.37	17.68
	3H	19.30	20.62	19.68	20.95	21.31	17.90	19.23	18.28	19.56	19.92
	4H	19.89	21.13	20.29	21.48	21.86	18.85	20.10	19.25	20.45	20.83
	6H	20.35	21.49	20.76	21.86	22.25	19.64	20.79	20.05	21.15	21.55
	8H	20.49	21.58	20.92	21.97	22.37	19.95	21.04	20.38	21.43	21.83
	12H	20.59	21.63	21.02	22.01	22.44	20.20	21.24	20.63	21.63	22.06
4H	2H	18.32	19.56	18.72	19.91	20.29	16.68	17.92	17.08	18.27	18.65
	3H	20.09	21.12	20.50	21.52	21.92	19.12	20.15	19.53	20.55	20.95
	4H	20.81	21.74	21.25	22.16	22.60	20.19	21.12	20.62	21.53	21.97
	6H	21.40	22.20	21.86	22.65	23.11	21.08	21.88	21.54	22.33	22.79
	8H	21.59	22.34	22.05	22.79	23.25	21.43	22.18	21.89	22.63	23.10
	12H	21.73	22.40	22.21	22.88	23.35	21.72	22.39	22.20	22.87	23.34
8H	4H	21.12	21.87	21.59	22.32	22.79	20.58	21.33	21.04	21.77	22.24
	6H	21.83	22.46	22.33	22.95	23.43	21.61	22.24	22.11	22.73	23.21
	8H	22.09	22.66	22.61	23.17	23.66	22.06	22.62	22.57	23.13	23.62
	12H	22.30	22.80	22.81	23.29	23.86	22.44	22.94	22.95	23.43	24.00
12H	4H	21.16	21.83	21.64	22.31	22.78	20.61	21.28	21.09	21.76	22.24
	6H	21.90	22.46	22.41	22.97	23.46	21.68	22.24	22.19	22.75	23.24
	8H	22.22	22.72	22.73	23.21	23.77	22.18	22.68	22.70	23.18	23.74