

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: P894227

Luminaire Tested: 4MB-SC3-LVR-UNV-CC83-HI-5000K

Issue Date: 11/11/2024

**Test Information**

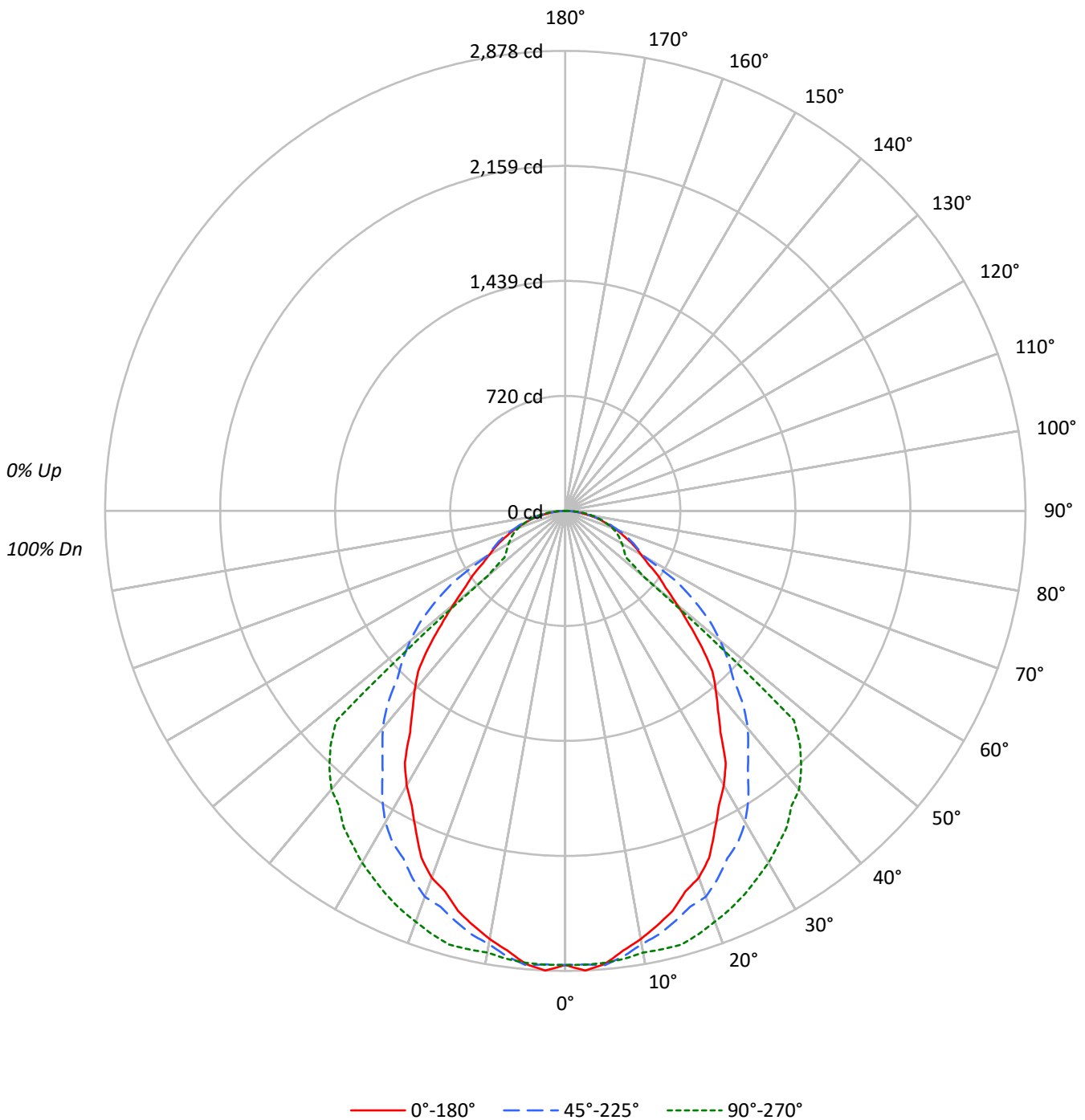
Test Method: LM-79-2019  
Report Number: P894227  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 4MB-SC3-LVR-UNV-CC83-HI-5000K  
Description: Selectable 4FT MICROBAY LINEAR BAY with LOUVER, 80CRI, 5000K CCT, HI lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6062.0 lumens  
Efficiency: N/A  
Efficacy: 119.6 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°	20212	20212	20212
5°	20319	20372	20268
10°	19653	19884	20271
15°	19086	19567	20689
20°	18488	19455	20707
25°	17347	18827	20798
30°	16293	18487	20883
35°	14693	17289	20981
40°	13610	16494	21129
45°	12175	14948	20890
50°	10102	14003	7018
55°	8800	12292	5614
60°	7784	8010	5821
65°	7401	7791	6180
70°	6942	7364	6520
75°	6460	6939	6699
80°	5884	6539	7015
85°	5208	5568	7584

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 20890 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	269.4	4.4
10°-20°	758.0	12.5
20°-30°	1115.0	18.4
30°-40°	1275.1	21.0
40°-50°	1207.4	19.9
50°-60°	665.2	11.0
60°-70°	427.1	7.0
70°-80°	263.6	4.3
80°-90°	81.1	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°	2142.4	35.3
0°-40°	3417.5	56.4
0°-60°	5290.2	87.3
0°-90°	6062.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6062.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2841	2841	2841	2841	2841	
5°	2845	2868	2852	2852	2838	267
15°	2591	2623	2656	2796	2809	727
25°	2210	2308	2398	2555	2649	1018
35°	1692	1837	1990	2279	2416	1069
45°	1210	1325	1486	1906	2076	925
55°	709	744	991	511	453	634
65°	440	454	463	412	367	435
75°	235	239	252	266	244	250
85°	64	64	68	78	93	71
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2840.7	2840.7	2840.7	2840.7	2840.7
2.5°	2878.4	2885.6	2839.2	2837.8	2842.1
5°	2845.0	2868.2	2852.3	2852.3	2837.8
7.5°	2773.9	2813.1	2808.7	2842.1	2826.2
10°	2720.2	2752.2	2752.2	2839.2	2805.8
12.5°	2656.4	2692.7	2713.0	2804.4	2808.7
15°	2591.1	2623.0	2656.4	2795.7	2808.7
17.5°	2496.8	2554.9	2596.9	2733.3	2775.4
20°	2441.7	2476.5	2569.4	2679.6	2734.8
22.5°	2350.3	2401.1	2491.0	2614.3	2695.6
25°	2209.6	2308.2	2398.2	2554.9	2649.2
27.5°	2079.0	2153.0	2338.7	2504.1	2594.0
30°	1983.2	2041.3	2250.2	2430.1	2541.8
32.5°	1867.2	1961.5	2131.2	2357.5	2476.5
35°	1691.6	1836.7	1990.5	2279.2	2415.6
37.5°	1568.3	1668.4	1877.3	2198.0	2324.2
40°	1465.3	1556.7	1775.8	2096.4	2274.9
42.5°	1362.3	1436.3	1648.1	2021.0	2183.5
45°	1210.0	1324.6	1485.6	1906.3	2076.1
47.5°	1050.4	1172.2	1379.7	1809.1	1939.7
50°	912.6	1009.8	1265.1	1616.2	634.0
52.5°	792.1	882.1	1143.2	584.7	478.8
55°	709.4	744.3	990.9	510.7	452.6
57.5°	610.8	667.4	831.3	486.0	429.4
60°	547.0	571.6	562.9	461.4	409.1
62.5°	496.2	513.6	510.7	436.7	385.9
65°	439.6	454.1	462.8	412.0	367.1
67.5°	383.0	396.1	409.1	381.6	340.9
70°	333.7	342.4	354.0	345.3	313.4
72.5°	282.9	293.1	300.3	307.6	277.1
75°	235.0	239.4	252.4	265.5	243.7
77.5°	191.5	195.9	204.6	219.1	207.5
80°	143.6	148.0	159.6	171.2	171.2
82.5°	101.6	104.5	111.7	127.7	134.9
85°	63.8	63.8	68.2	78.3	92.9
87.5°	24.7	24.7	29.0	34.8	46.4
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	18.40	19.88	18.76	20.19	20.51	16.20	17.68	16.56	17.99	18.31
	3H	19.92	21.25	20.30	21.58	21.94	18.53	19.85	18.91	20.18	20.54
	4H	20.51	21.76	20.91	22.11	22.49	19.48	20.72	19.88	21.07	21.45
	6H	20.97	22.12	21.38	22.48	22.88	20.26	21.41	20.67	21.78	22.17
	8H	21.11	22.21	21.54	22.60	23.00	20.57	21.67	21.00	22.06	22.46
	12H	21.21	22.26	21.64	22.64	23.07	20.82	21.87	21.25	22.25	22.68
4H	2H	18.95	20.19	19.35	20.54	20.92	17.30	18.54	17.70	18.89	19.27
	3H	20.72	21.75	21.13	22.15	22.55	19.75	20.78	20.16	21.18	21.58
	4H	21.44	22.36	21.87	22.78	23.22	20.81	21.74	21.25	22.16	22.59
	6H	22.02	22.83	22.48	23.27	23.73	21.70	22.51	22.16	22.95	23.41
	8H	22.21	22.97	22.68	23.41	23.88	22.05	22.81	22.52	23.25	23.72
	12H	22.35	23.02	22.83	23.50	23.97	22.34	23.01	22.82	23.49	23.96
8H	4H	21.74	22.50	22.21	22.94	23.41	21.20	21.95	21.66	22.40	22.87
	6H	22.46	23.08	22.95	23.57	24.05	22.24	22.86	22.73	23.35	23.83
	8H	22.72	23.28	23.23	23.79	24.28	22.68	23.24	23.20	23.75	24.24
	12H	22.93	23.43	23.44	23.92	24.48	23.06	23.56	23.57	24.06	24.62
12H	4H	21.78	22.45	22.26	22.93	23.40	21.23	21.91	21.72	22.39	22.86
	6H	22.52	23.08	23.04	23.59	24.08	22.30	22.86	22.81	23.37	23.86
	8H	22.84	23.34	23.35	23.83	24.40	22.81	23.31	23.32	23.80	24.36