

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: P894274

Luminaire Tested: 4MB-SC3-LVRF-UNV-CC93-LOW-4000K

Issue Date: 11/11/2024

**Test Information**

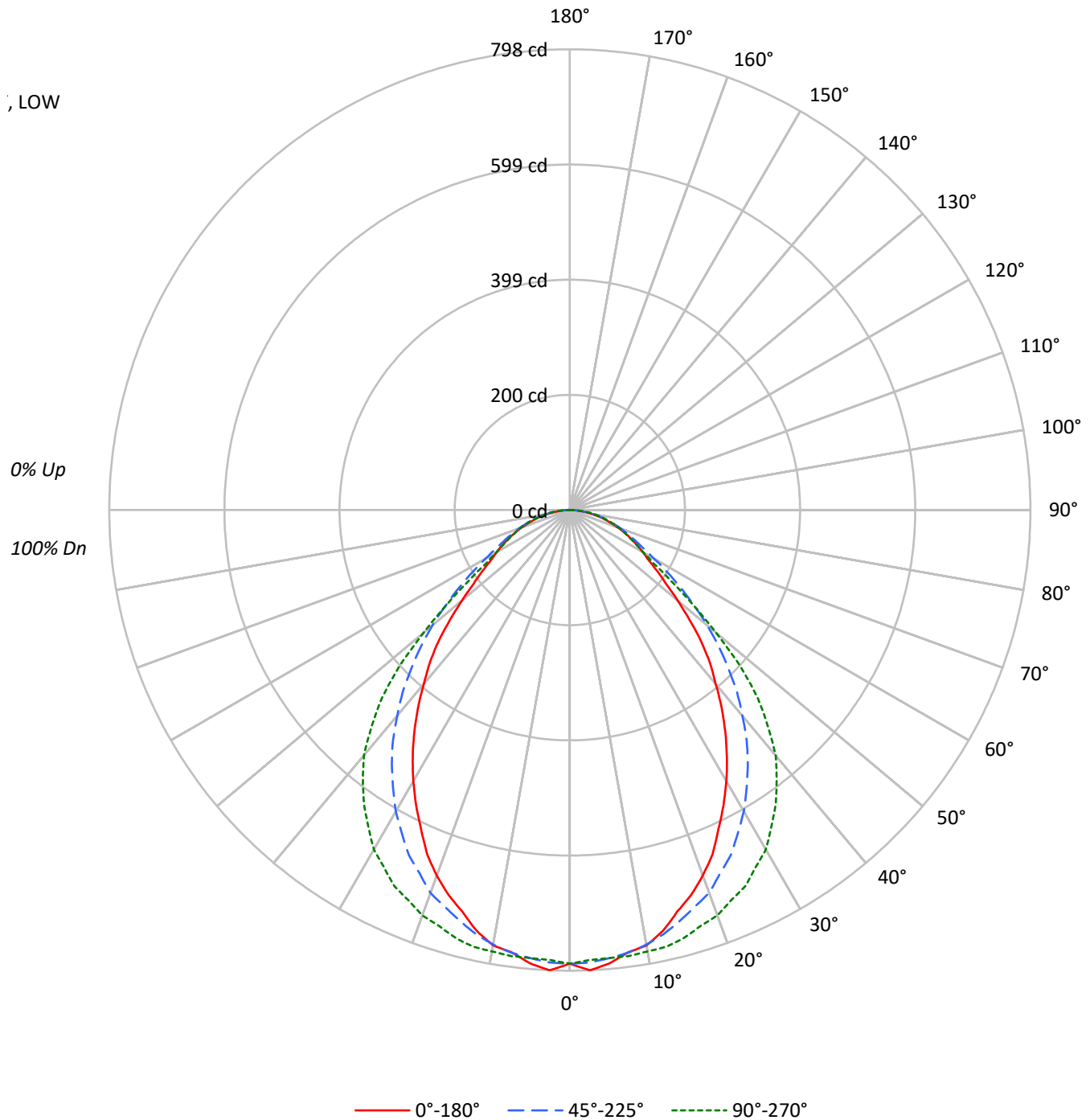
Test Method: LM-79-2019  
Report Number: P894274  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 4MB-SC3-LVRF-UNV-CC93-LOW-4000K  
Description: Selectable 4FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 90CRI, 4000K CCT  
lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1633.0 lumens  
Efficiency: N/A  
Efficacy: 97.8 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.27 / 1.23  
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	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	70	80	74	69	77	72	68	75	71	67	67	67	67	65
4	87	76	68	62	84	74	67	61	72	66	60	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	56	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	44	39	49	43	38	48	42	38	38	38	38	36
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	32	32	32	30

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

	0°	45°	90°
0°	5590	5590	5590
5°	5629	5565	5565
10°	5532	5523	5609
15°	5303	5427	5649
20°	5102	5346	5658
25°	4786	5181	5645
30°	4455	4952	5579
35°	4078	4670	5402
40°	3651	4319	5154
45°	3240	3910	4634
50°	2695	3441	3654
55°	2296	2899	2656
60°	2082	2395	2099
65°	1960	2098	1953
70°	1845	1947	1903
75°	1718	1853	1820
80°	1573	1709	1758
85°	1371	1502	1967

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 4634 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.4	4.6
10°-20°	209.3	12.8
20°-30°	304.0	18.6
30°-40°	338.5	20.7
40°-50°	299.1	18.3
50°-60°	196.2	12.0
60°-70°	120.2	7.4
70°-80°	69.9	4.3
80°-90°	21.4	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°	587.7	36.0
0°-40°	926.2	56.7
0°-60°	1421.5	87.0
0°-90°	1633.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1633.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	786	786	786	786	786	
5°	788	789	779	787	779	74
15°	720	728	737	766	767	203
25°	610	624	660	702	719	280
35°	470	495	538	594	622	293
45°	322	342	389	441	460	246
55°	185	198	234	232	214	168
65°	116	118	125	121	116	116
75°	62	63	67	69	66	66
85°	17	18	18	21	24	19
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	785.7	785.7	785.7	785.7	785.7
2.5°	798.0	788.2	784.5	788.2	780.0
5°	788.2	788.6	779.2	787.0	779.2
7.5°	772.6	778.0	773.5	785.3	779.2
10°	765.7	766.1	764.5	776.7	776.3
12.5°	746.5	747.7	752.2	770.6	774.7
15°	719.9	728.1	736.7	765.7	766.9
17.5°	699.1	708.9	720.3	751.4	755.1
20°	673.8	677.9	706.0	733.4	747.3
22.5°	645.6	653.3	680.7	717.5	731.4
25°	609.6	624.3	659.9	702.0	719.1
27.5°	576.5	593.7	630.5	677.4	697.5
30°	542.2	561.8	602.7	648.8	679.1
32.5°	506.7	531.2	570.0	623.1	649.7
35°	469.5	494.8	537.7	594.5	621.9
37.5°	432.3	456.8	503.4	564.3	588.8
40°	393.1	417.2	465.0	526.7	554.9
42.5°	359.2	380.0	429.0	481.7	507.9
45°	322.0	341.6	388.6	440.9	460.5
47.5°	281.1	304.0	349.8	392.7	400.4
50°	243.5	267.2	310.9	335.9	330.1
52.5°	210.4	230.4	270.5	281.1	267.6
55°	185.1	198.2	233.7	231.7	214.1
57.5°	161.8	170.0	200.2	188.8	172.0
60°	146.3	150.0	168.3	157.7	147.5
62.5°	131.6	133.2	143.0	137.3	129.5
65°	116.4	118.5	124.6	120.9	116.0
67.5°	102.6	103.4	109.1	108.3	102.1
70°	88.7	89.9	93.6	95.2	91.5
72.5°	75.2	76.4	80.1	81.7	78.4
75°	62.5	63.3	67.4	68.6	66.2
77.5°	50.3	51.9	54.3	56.4	53.5
80°	38.4	39.2	41.7	44.1	42.9
82.5°	27.0	28.2	29.8	33.1	33.9
85°	16.8	17.6	18.4	20.8	24.1
87.5°	6.5	6.9	8.2	9.0	11.8
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	13.51	14.99	13.87	15.30	15.62	14.16	15.64	14.53	15.96	16.27
	3H	15.11	16.44	15.49	16.77	17.13	15.60	16.92	15.98	17.25	17.61
	4H	15.73	16.97	16.13	17.32	17.70	16.20	17.44	16.60	17.79	18.17
	6H	16.20	17.35	16.61	17.71	18.11	16.69	17.83	17.10	18.20	18.59
	8H	16.35	17.44	16.78	17.83	18.23	16.89	17.98	17.31	18.37	18.77
	12H	16.45	17.50	16.88	17.88	18.31	17.05	18.10	17.48	18.48	18.91
4H	2H	14.13	15.37	14.53	15.72	16.10	14.66	15.90	15.06	16.25	16.63
	3H	15.95	16.98	16.36	17.38	17.78	16.35	17.38	16.76	17.78	18.18
	4H	16.69	17.62	17.12	18.03	18.47	17.10	18.03	17.54	18.45	18.89
	6H	17.29	18.09	17.75	18.54	19.00	17.74	18.54	18.20	18.99	19.45
	8H	17.49	18.24	17.95	18.68	19.15	17.99	18.75	18.46	19.19	19.66
	12H	17.63	18.30	18.11	18.78	19.25	18.22	18.89	18.70	19.37	19.84
8H	4H	17.01	17.76	17.47	18.21	18.67	17.37	18.13	17.84	18.57	19.04
	6H	17.73	18.36	18.23	18.85	19.33	18.15	18.77	18.65	19.26	19.74
	8H	18.01	18.57	18.52	19.08	19.57	18.49	19.05	19.01	19.57	20.05
	12H	18.22	18.72	18.73	19.21	19.78	18.81	19.31	19.32	19.80	20.37
12H	4H	17.04	17.72	17.53	18.19	18.67	17.39	18.07	17.88	18.55	19.02
	6H	17.80	18.36	18.31	18.87	19.36	18.19	18.76	18.71	19.27	19.76
	8H	18.13	18.63	18.64	19.12	19.69	18.60	19.10	19.11	19.59	20.16