

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: P894230

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

Issue Date: 11/11/2024

**Test Information**

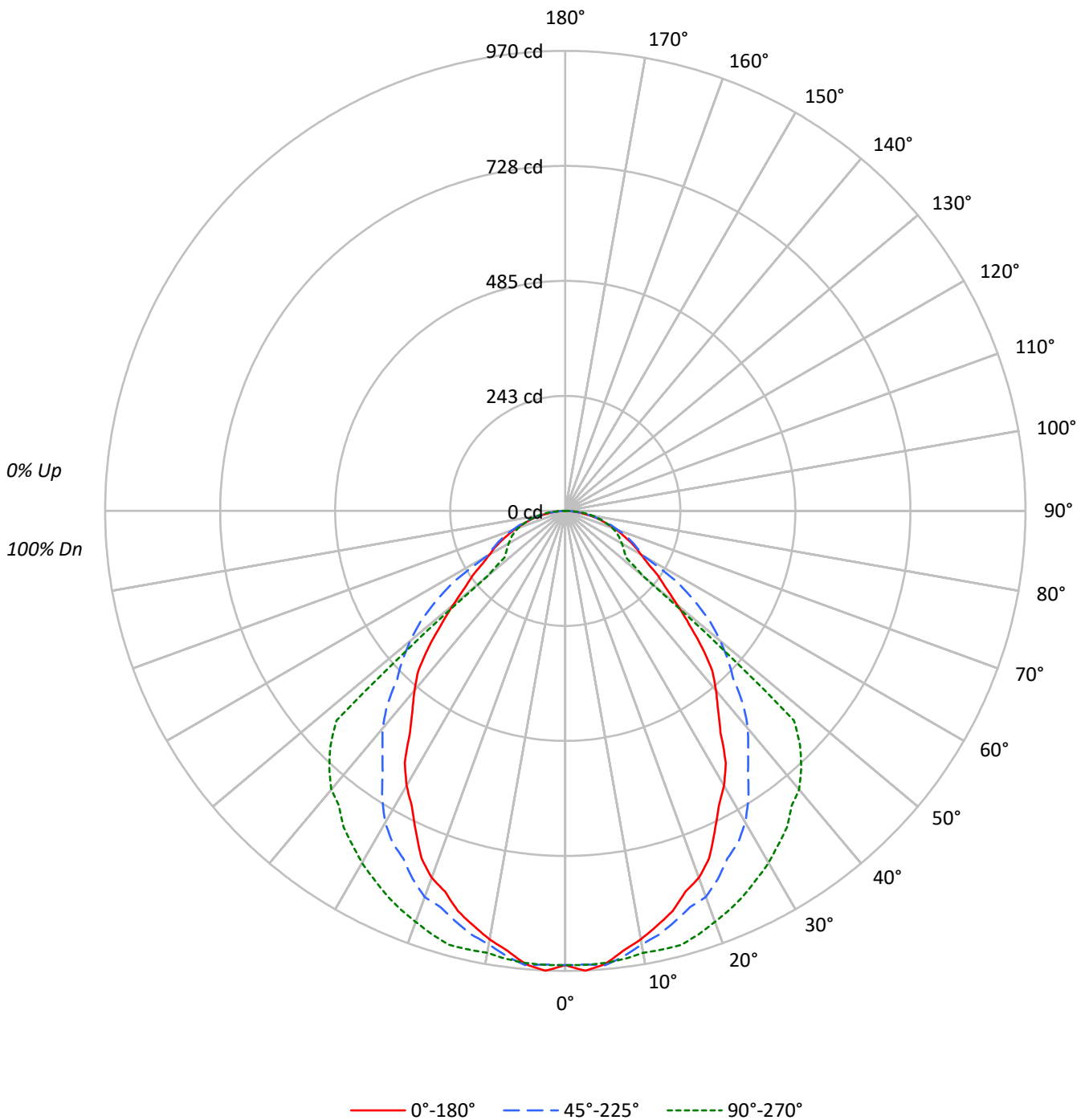
Test Method: LM-79-2019  
Report Number: P894230  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 4MB-SC3-LVR-UNV-CC83-LOW-5000K  
Description: Selectable 4FT MICROBAY LINEAR BAY with LOUVER, 80CRI, 5000K CCT, LOW lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2044.0 lumens  
Efficiency: N/A  
Efficacy: 122.4 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): 16.7  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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	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°	6815	6815	6815
5°	6851	6869	6834
10°	6627	6705	6835
15°	6436	6598	6976
20°	6234	6559	6982
25°	5849	6348	7012
30°	5494	6233	7041
35°	4954	5830	7075
40°	4589	5562	7124
45°	4105	5040	7043
50°	3406	4722	2367
55°	2967	4144	1893
60°	2624	2701	1962
65°	2495	2626	2084
70°	2340	2484	2199
75°	2177	2339	2260
80°	1983	2204	2364
85°	1755	1878	2555

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 7043 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.8	4.4
10°-20°	255.6	12.5
20°-30°	376.0	18.4
30°-40°	429.9	21.0
40°-50°	407.1	19.9
50°-60°	224.3	11.0
60°-70°	144.0	7.0
70°-80°	88.9	4.3
80°-90°	27.3	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°	722.4	35.3
0°-40°	1152.3	56.4
0°-60°	1783.7	87.3
0°-90°	2044.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2044.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	958	958	958	958	958	
5°	959	967	962	962	957	90
15°	874	884	896	943	947	245
25°	745	778	809	862	893	343
35°	570	619	671	768	814	361
45°	408	447	501	643	700	312
55°	239	251	334	172	153	214
65°	148	153	156	139	124	147
75°	79	81	85	90	82	84
85°	22	22	23	26	31	24
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	957.8	957.8	957.8	957.8	957.8
2.5°	970.5	973.0	957.3	956.8	958.3
5°	959.3	967.1	961.7	961.7	956.8
7.5°	935.3	948.5	947.1	958.3	952.9
10°	917.2	928.0	928.0	957.3	946.1
12.5°	895.7	907.9	914.8	945.6	947.1
15°	873.7	884.4	895.7	942.7	947.1
17.5°	841.9	861.5	875.6	921.6	935.8
20°	823.3	835.0	866.3	903.5	922.1
22.5°	792.5	809.6	839.9	881.5	908.9
25°	745.0	778.3	808.6	861.5	893.2
27.5°	701.0	725.9	788.6	844.3	874.7
30°	668.7	688.3	758.7	819.4	857.0
32.5°	629.6	661.4	718.6	794.9	835.0
35°	570.4	619.3	671.2	768.5	814.5
37.5°	528.8	562.6	633.0	741.1	783.7
40°	494.1	524.9	598.8	706.9	767.0
42.5°	459.3	484.3	555.7	681.4	736.2
45°	408.0	446.6	500.9	642.8	700.0
47.5°	354.2	395.3	465.2	610.0	654.0
50°	307.7	340.5	426.6	545.0	213.8
52.5°	267.1	297.4	385.5	197.1	161.4
55°	239.2	251.0	334.1	172.2	152.6
57.5°	205.9	225.0	280.3	163.9	144.8
60°	184.4	192.7	189.8	155.6	137.9
62.5°	167.3	173.2	172.2	147.2	130.1
65°	148.2	153.1	156.0	138.9	123.8
67.5°	129.1	133.5	137.9	128.7	115.0
70°	112.5	115.4	119.4	116.4	105.7
72.5°	95.4	98.8	101.3	103.7	93.4
75°	79.2	80.7	85.1	89.5	82.2
77.5°	64.6	66.0	69.0	73.9	70.0
80°	48.4	49.9	53.8	57.7	57.7
82.5°	34.2	35.2	37.7	43.0	45.5
85°	21.5	21.5	23.0	26.4	31.3
87.5°	8.3	8.3	9.8	11.7	15.7
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	14.62	16.10	14.98	16.41	16.73	12.42	13.90	12.79	14.22	14.53
	3H	16.14	17.47	16.52	17.80	18.16	14.75	16.08	15.13	16.41	16.77
	4H	16.73	17.98	17.14	18.33	18.71	15.70	16.94	16.10	17.29	17.67
	6H	17.19	18.34	17.60	18.71	19.10	16.49	17.63	16.90	18.00	18.39
	8H	17.34	18.43	17.76	18.82	19.22	16.80	17.89	17.22	18.28	18.68
	12H	17.43	18.48	17.86	18.86	19.29	17.05	18.09	17.48	18.47	18.90
4H	2H	15.17	16.41	15.57	16.76	17.14	13.52	14.77	13.93	15.12	15.50
	3H	16.94	17.97	17.35	18.37	18.77	15.97	17.00	16.38	17.40	17.80
	4H	17.66	18.58	18.09	19.00	19.44	17.04	17.96	17.47	18.38	18.82
	6H	18.24	19.05	18.70	19.49	19.95	17.92	18.73	18.38	19.17	19.63
	8H	18.43	19.19	18.90	19.63	20.10	18.28	19.03	18.74	19.47	19.94
	12H	18.57	19.24	19.05	19.72	20.19	18.56	19.24	19.05	19.72	20.19
8H	4H	17.97	18.72	18.43	19.16	19.63	17.42	18.18	17.89	18.62	19.09
	6H	18.68	19.30	19.18	19.79	20.27	18.46	19.08	18.96	19.57	20.05
	8H	18.94	19.50	19.45	20.01	20.50	18.90	19.47	19.42	19.98	20.46
	12H	19.15	19.65	19.66	20.14	20.70	19.29	19.79	19.80	20.28	20.84
12H	4H	18.00	18.68	18.49	19.15	19.63	17.46	18.13	17.94	18.61	19.08
	6H	18.74	19.30	19.26	19.82	20.30	18.52	19.09	19.04	19.60	20.08
	8H	19.06	19.56	19.57	20.05	20.62	19.03	19.53	19.54	20.02	20.59