

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: P894095

Luminaire Tested: 4MB-SC3-A-UNV-CC93-LOW-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894095
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-16)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4MB-SC3-A-UNV-CC93-LOW-5000K
Description: Selectable 4FT MICROBAY LINEAR BAY with AISLE OPTIC, 90CRI, 5000K CCT, LOW lumen settir
Light Source: -
Ballast/Driver: -

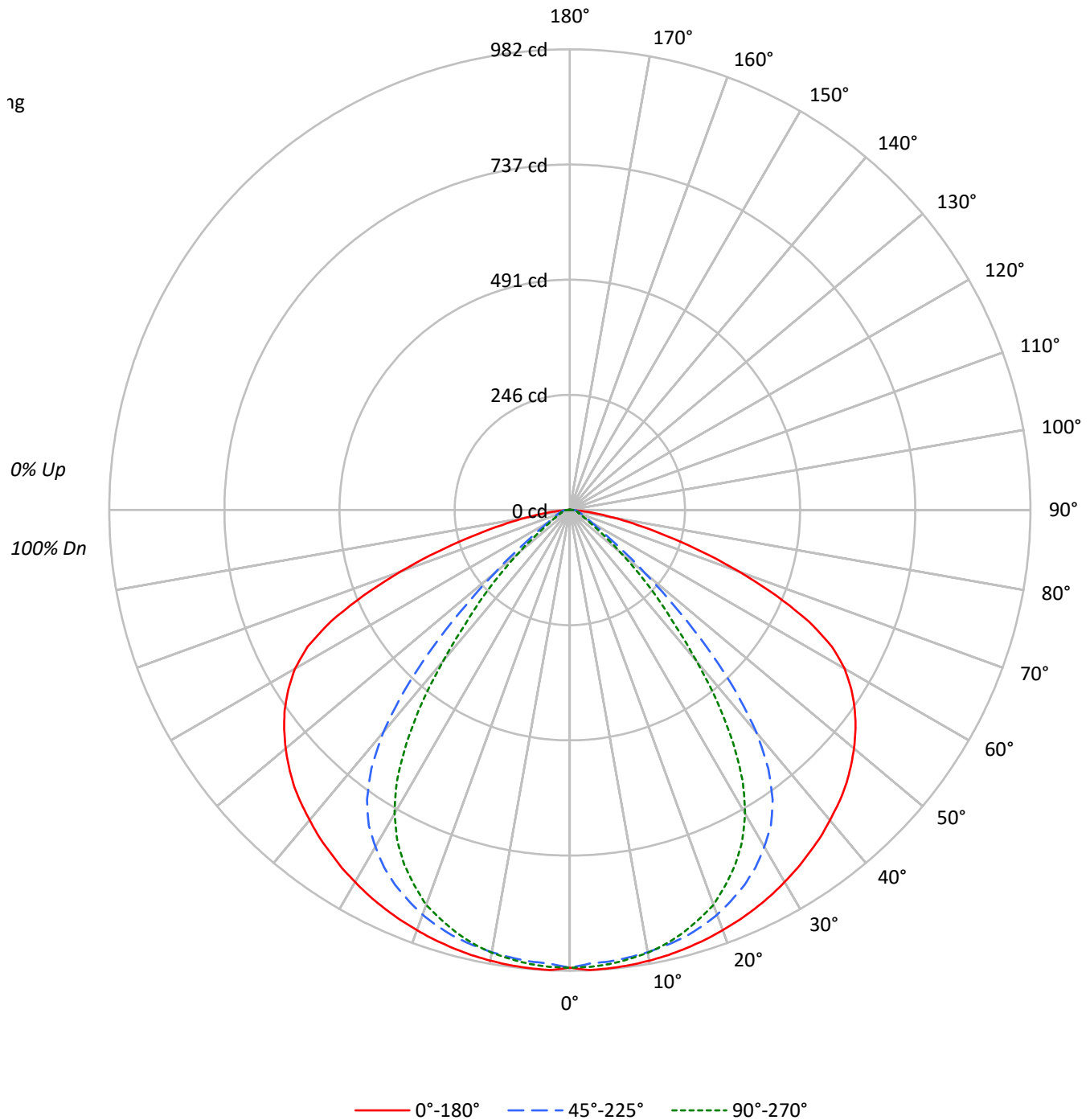
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2000.0 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Spacing Criteria (0/90/45): 1.41 / 1.15 / 1.23
Luminous Opening: Rectangular (W 0.27' 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	111	107	103	100	108	105	102	99	100	98	96	97	95	93	93	91	90	90	90	90	88
2	103	96	90	85	100	94	89	84	91	86	82	87	84	81	84	81	79	79	79	79	77
3	95	86	79	74	93	85	78	73	82	76	72	79	74	71	77	73	69	69	69	69	67
4	88	78	70	65	86	77	70	64	74	68	63	72	67	62	70	65	62	62	62	62	60
5	82	71	63	57	80	70	62	57	68	61	56	66	60	55	64	59	55	55	55	55	53
6	76	64	56	51	74	63	56	51	62	55	50	60	54	50	59	53	49	49	49	49	47
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	45	45	45	43
8	66	54	47	41	65	54	46	41	52	46	41	51	45	41	50	44	40	40	40	40	39
9	62	50	43	38	61	50	42	37	48	42	37	47	41	37	46	41	37	37	37	37	35
10	59	46	39	34	57	46	39	34	45	39	34	44	38	34	43	38	34	34	34	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9936	9936	9936
5°	10024	9875	9933
10°	10087	9897	9911
15°	10187	9939	9837
20°	10331	9948	9705
25°	10523	9904	9376
30°	10768	9749	8788
35°	11076	9374	7555
40°	11471	8233	5585
45°	11976	5941	3756
50°	12532	3319	2242
55°	13173	1715	1227
60°	13779	1116	870
65°	13545	918	689
70°	11422	843	643
75°	8401	862	689
80°	5607	1015	868
85°	3061	1636	1320

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 62.5°
 Luminance: 13897 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.6	4.6
10°-20°	267.7	13.4
20°-30°	407.2	20.4
30°-40°	465.1	23.3
40°-50°	375.2	18.8
50°-60°	205.4	10.3
60°-70°	108.3	5.4
70°-80°	53.1	2.7
80°-90°	18.7	0.9
90°-100°	4.0	0.2
100°-110°	0.6	0.0
110°-120°	0.3	0.0
120°-130°	0.3	0.0
130°-140°	0.3	0.0
140°-150°	0.4	0.0
150°-160°	0.3	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-30°	767.6	38.4
0°-40°	1232.7	61.6
0°-60°	1813.2	90.7
0°-90°	1993.4	99.7
90°-120°	4.9	0.2
90°-150°	5.9	0.3
90°-180°	7.0	0.4
0°-180°	2000.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	976	976	976	976	976	
5°	980	978	966	975	972	93
15°	966	960	943	941	933	273
25°	936	923	881	852	834	433
35°	891	853	754	651	608	559
45°	832	714	412	282	261	642
55°	742	305	97	75	69	662
65°	562	70	38	31	29	544
75°	214	40	22	18	18	236
85°	26	21	14	13	11	36
90°	1	11	9	8	7	2
95°	1	1	3	5	4	1
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	1	0	0
155°	0	0	1	1	1	0
165°	0	1	1	1	1	0
175°	1	1	1	1	1	0
180°	1	1	1	1	1	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	975.6	975.6	975.6	975.6	975.6
2.5°	981.6	978.9	967.8	977.3	974.6
5°	980.5	977.5	965.9	974.6	971.6
7.5°	978.6	974.8	962.1	970.0	965.4
10°	975.4	971.6	957.0	963.2	958.4
12.5°	971.6	966.5	950.3	953.5	947.3
15°	966.2	960.2	942.7	941.1	933.0
17.5°	960.2	953.0	931.6	924.6	914.9
20°	953.2	944.3	917.9	904.1	895.5
22.5°	945.4	933.8	900.6	879.5	866.0
25°	936.5	923.0	881.4	851.5	834.4
27.5°	927.0	908.7	858.2	818.8	795.8
30°	915.7	893.6	829.0	775.9	747.3
32.5°	904.4	874.7	797.7	720.5	686.5
35°	890.9	853.3	754.0	651.4	607.7
37.5°	878.2	827.7	694.9	564.8	517.8
40°	862.8	797.5	619.3	465.1	420.1
42.5°	848.2	762.4	521.3	369.0	329.9
45°	831.5	714.3	412.5	281.8	260.8
47.5°	812.0	648.7	299.9	209.8	196.5
50°	791.0	558.5	209.5	152.3	141.5
52.5°	767.8	436.8	141.2	105.8	99.9
55°	741.9	305.3	96.6	74.8	69.1
57.5°	711.9	198.7	70.2	56.4	52.6
60°	676.5	126.9	54.8	44.8	42.7
62.5°	630.1	89.1	45.1	37.0	35.1
65°	562.1	70.5	38.1	30.8	28.6
67.5°	475.9	59.7	32.7	25.9	24.6
70°	383.6	51.8	28.3	22.4	21.6
72.5°	294.8	45.4	24.6	20.0	19.4
75°	213.5	39.7	21.9	18.4	17.5
77.5°	147.9	34.3	19.4	16.5	15.9
80°	95.6	29.7	17.3	15.1	14.8
82.5°	54.8	24.8	15.7	14.6	14.3
85°	26.2	20.8	14.0	12.7	11.3
87.5°	8.4	15.4	11.1	9.7	8.6
90°	1.1	10.8	8.6	7.6	7.0
92.5°	1.1	5.9	6.2	6.2	5.9
95°	0.8	1.3	3.0	4.6	4.3
97.5°	0.8	0.5	1.9	3.2	3.2
100°	0.5	0.3	0.8	2.2	2.2
102.5°	0.5	0.3	0.3	1.3	1.3
105°	0.3	0.0	0.3	0.5	0.5
107.5°	0.3	0.3	0.3	0.5	0.3
110°	0.3	0.3	0.3	0.5	0.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.3	0.3	0.3	0.5	0.3
115°	0.3	0.3	0.3	0.5	0.3
117.5°	0.3	0.3	0.3	0.5	0.3
120°	0.3	0.3	0.3	0.5	0.3
122.5°	0.3	0.3	0.3	0.5	0.3
125°	0.3	0.3	0.3	0.5	0.3
127.5°	0.3	0.3	0.3	0.5	0.3
130°	0.3	0.3	0.5	0.5	0.3
132.5°	0.3	0.3	0.5	0.5	0.3
135°	0.3	0.3	0.5	0.5	0.3
137.5°	0.3	0.3	0.5	0.5	0.5
140°	0.5	0.3	0.5	0.5	0.5
142.5°	0.5	0.5	0.5	0.8	0.5
145°	0.5	0.5	0.5	0.8	0.5
147.5°	0.5	0.5	0.8	0.8	0.5
150°	0.5	0.5	0.8	0.8	0.5
152.5°	0.5	0.5	0.8	0.8	0.8
155°	0.5	0.5	0.8	1.1	0.8
157.5°	0.5	0.5	0.8	1.1	0.8
160°	0.5	0.8	1.1	1.1	0.8
162.5°	0.5	0.8	1.1	1.1	1.1
165°	0.5	0.8	1.1	1.1	1.1
167.5°	0.8	0.8	1.1	1.3	1.1
170°	0.8	0.8	1.1	1.3	1.1
172.5°	0.8	0.8	1.1	1.3	1.1
175°	0.8	0.8	1.1	1.3	1.1
177.5°	0.8	0.8	1.1	1.3	1.3
180°	1.1	1.1	1.1	1.1	1.1



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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	17.88	19.28	18.25	19.60	19.93	6.39	7.79	6.77	8.11	8.44
	3H	20.79	22.04	21.18	22.38	22.75	7.33	8.58	7.72	8.91	9.28
	4H	21.69	22.85	22.09	23.21	23.60	7.85	9.01	8.26	9.37	9.76
	6H	22.18	23.25	22.60	23.63	24.03	8.48	9.55	8.90	9.93	10.33
	8H	22.30	23.31	22.73	23.71	24.12	8.90	9.92	9.33	10.31	10.73
	12H	22.34	23.31	22.78	23.70	24.14	9.35	10.32	9.78	10.71	11.15
4H	2H	17.70	18.86	18.11	19.22	19.61	6.92	8.08	7.32	8.43	8.82
	3H	20.63	21.58	21.05	21.99	22.40	8.11	9.06	8.53	9.47	9.88
	4H	21.53	22.38	21.97	22.81	23.26	8.78	9.63	9.22	10.06	10.51
	6H	22.12	22.86	22.59	23.32	23.79	9.60	10.34	10.06	10.79	11.26
	8H	22.28	22.98	22.76	23.43	23.91	10.13	10.82	10.60	11.27	11.75
	12H	22.38	22.99	22.87	23.48	23.96	10.71	11.32	11.20	11.81	12.29
8H	4H	21.42	22.11	21.89	22.57	23.04	9.37	10.06	9.84	10.51	10.99
	6H	22.02	22.59	22.53	23.09	23.58	10.37	10.94	10.88	11.44	11.93
	8H	22.21	22.72	22.73	23.24	23.74	11.05	11.56	11.57	12.08	12.58
	12H	22.35	22.81	22.87	23.31	23.88	11.81	12.27	12.33	12.77	13.34
12H	4H	21.38	22.00	21.87	22.48	22.97	9.63	10.24	10.12	10.73	11.21
	6H	21.97	22.48	22.49	23.00	23.50	10.68	11.20	11.21	11.71	12.21
	8H	22.18	22.64	22.70	23.14	23.72	11.45	11.90	11.96	12.40	12.98