

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: P894257

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894257
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-26)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4MB-SC3-LVRA-UNV-CC93-LOW-5000K
Description: Selectable 4FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 90CRI, 5000K CCT, LO lumen setting
Light Source: -
Ballast/Driver: -

Summary

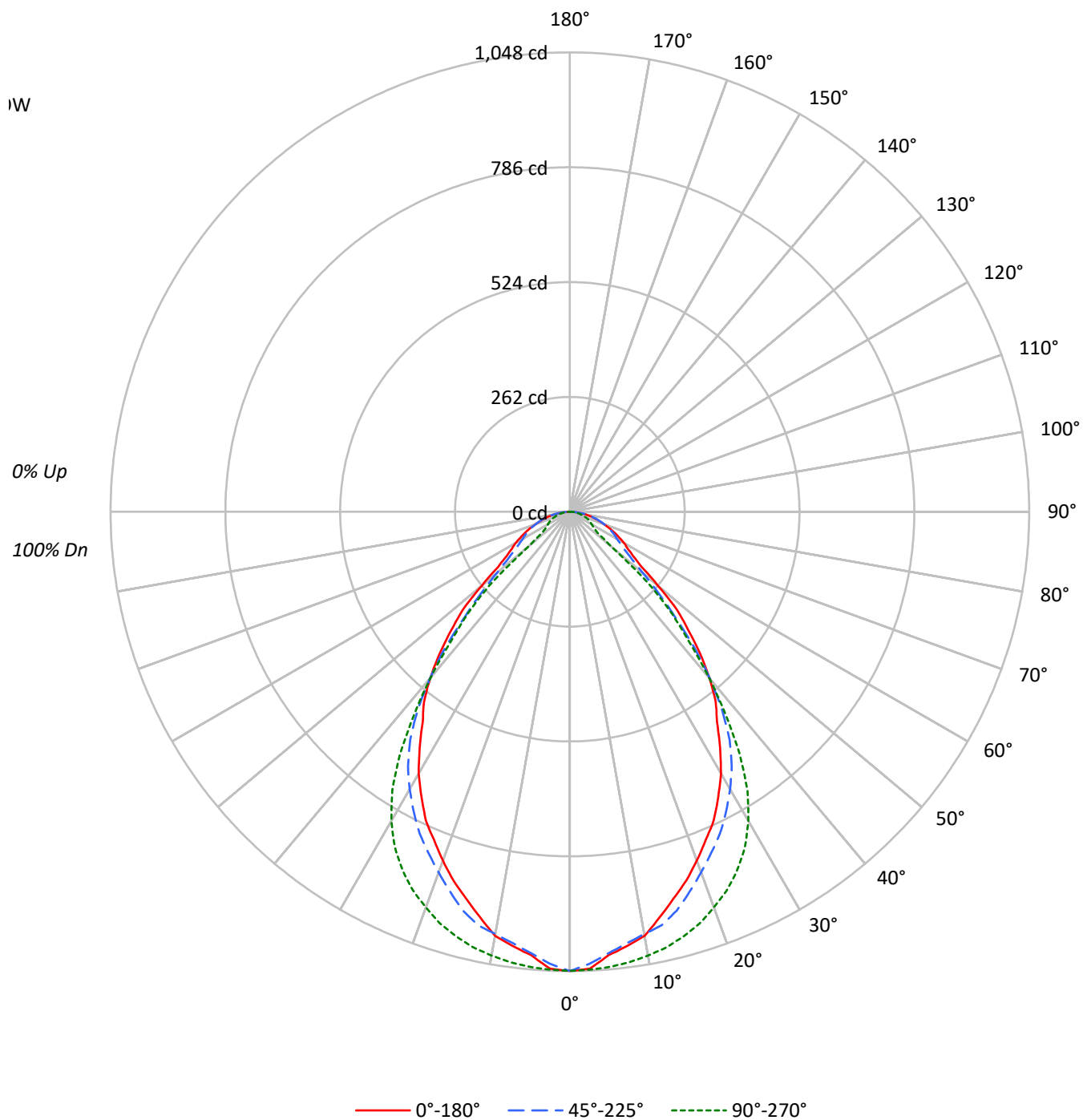
Lumens per Lamp: N/A
Luminaire Lumens: 1700.0 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.16 / 1.12
Luminous Opening: Rectangular (W 0.38' x L: 3.98' x H: 0')
CIE Type: Direct

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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	107	104	101	108	105	102	99	101	98	96		97	95	93		93
2	103	96	91	86	101	95	90	85	91	87	83		88	85	82		85
3	96	87	80	75	94	86	80	75	83	78	73		80	76	72		78
4	89	79	72	66	87	78	71	66	76	70	65		73	68	64		71
5	83	72	65	59	81	71	64	59	69	63	58		67	62	58		66
6	78	66	59	53	76	65	58	53	64	57	53		62	57	52		61
7	73	61	54	48	71	60	53	48	59	52	48		58	52	47		56
8	68	57	49	44	67	56	49	44	55	48	44		53	48	43		52
9	64	52	45	40	63	52	45	40	51	44	40		50	44	40		49
10	61	49	42	37	60	48	42	37	47	41	37		47	41	37		46

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7453	7453	7453
5°	7251	7219	7444
10°	7098	7067	7427
15°	6731	6938	7386
20°	6412	6629	7273
25°	6100	6360	7087
30°	5667	6004	6692
35°	5081	5517	5869
40°	4604	4613	4588
45°	3849	3409	3325
50°	2908	2400	1359
55°	2187	1919	857
60°	2032	1767	825
65°	1891	1763	827
70°	1729	1729	813
75°	1641	1685	786
80°	1516	1594	807
85°	1322	1388	882

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 3939 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.8	5.7
10°-20°	266.6	15.7
20°-30°	378.1	22.2
30°-40°	389.5	22.9
40°-50°	272.0	16.0
50°-60°	130.5	7.7
60°-70°	91.6	5.4
70°-80°	57.3	3.4
80°-90°	17.7	1.0
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°	741.4	43.6
0°-40°	1130.9	66.5
0°-60°	1533.4	90.2
0°-90°	1700.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1700.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1048	1048	1048	1048	1048	
5°	1015	1014	1011	1037	1042	96
15°	914	921	942	969	1003	257
25°	777	785	810	865	903	355
35°	585	601	635	648	676	369
45°	382	392	339	322	330	295
55°	176	168	155	99	69	165
65°	112	105	105	80	49	111
75°	60	59	61	53	29	63
85°	16	16	17	17	11	18
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1047.5	1047.5	1047.5	1047.5	1047.5
2.5°	1043.4	1040.2	1032.3	1046.7	1045.6
5°	1015.3	1014.0	1010.8	1037.2	1042.3
7.5°	999.4	996.7	992.9	1022.1	1036.4
10°	982.4	985.6	978.1	1004.8	1028.0
12.5°	947.3	955.9	966.2	987.0	1017.8
15°	913.8	920.6	941.9	968.9	1002.7
17.5°	882.5	890.3	908.7	949.2	985.1
20°	846.9	857.7	875.5	927.3	960.5
22.5°	810.2	820.2	842.6	898.2	935.2
25°	777.0	784.8	810.2	865.0	902.8
27.5°	733.0	747.5	771.6	824.5	864.2
30°	689.8	702.2	730.8	775.3	814.5
32.5°	637.7	655.7	687.3	721.3	754.0
35°	585.0	600.9	635.2	648.5	675.7
37.5°	546.7	551.0	570.4	568.8	584.2
40°	495.7	504.3	496.7	476.5	494.0
42.5°	440.6	450.8	420.3	396.8	403.1
45°	382.5	391.5	338.8	321.5	330.4
47.5°	332.3	331.5	273.2	261.6	249.2
50°	262.7	271.3	216.8	195.2	122.8
52.5°	205.2	208.4	178.7	124.7	80.7
55°	176.3	167.6	154.7	99.1	69.1
57.5°	156.6	145.8	137.1	92.1	63.2
60°	142.8	130.7	124.2	87.5	58.0
62.5°	127.2	117.7	115.3	83.4	53.5
65°	112.3	105.0	104.7	79.6	49.1
67.5°	97.5	93.4	94.5	75.1	44.3
70°	83.1	82.3	83.1	69.1	39.1
72.5°	71.0	70.2	72.4	61.6	33.5
75°	59.7	58.9	61.3	52.9	28.6
77.5°	47.5	48.1	49.7	44.0	24.0
80°	37.0	37.0	38.9	34.6	19.7
82.5°	26.5	26.7	27.8	25.4	15.4
85°	16.2	16.2	17.0	16.7	10.8
87.5°	5.4	6.2	7.3	7.8	5.4
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	12.63	13.98	12.99	14.29	14.61	8.96	10.31	9.33	10.63	10.94
	3H	14.36	15.57	14.74	15.90	16.26	10.94	12.14	11.32	12.47	12.84
	4H	15.04	16.16	15.44	16.51	16.90	11.64	12.77	12.04	13.12	13.50
	6H	15.54	16.58	15.96	16.95	17.34	12.16	13.20	12.58	13.57	13.96
	8H	15.71	16.70	16.14	17.09	17.49	12.35	13.33	12.78	13.72	14.13
	12H	15.82	16.77	16.26	17.15	17.58	12.49	13.43	12.92	13.81	14.24
4H	2H	13.16	14.28	13.56	14.63	15.02	10.58	11.71	10.98	12.06	12.44
	3H	15.13	16.06	15.54	16.47	16.87	12.76	13.69	13.17	14.09	14.49
	4H	15.94	16.77	16.37	17.19	17.63	13.64	14.47	14.07	14.89	15.33
	6H	16.58	17.30	17.04	17.75	18.21	14.28	15.00	14.74	15.45	15.91
	8H	16.80	17.48	17.27	17.92	18.39	14.49	15.17	14.96	15.61	16.08
	12H	16.95	17.55	17.44	18.04	18.51	14.65	15.25	15.13	15.73	16.20
8H	4H	16.22	16.90	16.69	17.34	17.81	14.29	14.96	14.75	15.41	15.88
	6H	17.00	17.56	17.50	18.05	18.53	15.15	15.70	15.65	16.20	16.68
	8H	17.31	17.80	17.83	18.32	18.81	15.48	15.98	16.00	16.49	16.98
	12H	17.54	17.98	18.05	18.48	19.04	15.74	16.18	16.25	16.67	17.24
12H	4H	16.24	16.84	16.72	17.32	17.79	14.36	14.96	14.84	15.44	15.91
	6H	17.06	17.56	17.58	18.07	18.56	15.29	15.79	15.81	16.30	16.79
	8H	17.42	17.86	17.93	18.36	18.92	15.70	16.14	16.21	16.63	17.20