

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: P894251

Luminaire Tested: 4MB-SC3-LVRA-UNV-CC83-MID-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894251
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-CC83-MID-5000K
Description: Selectable 4FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 80CRI, 5000K CCT, MI lumen setting
Light Source: -
Ballast/Driver: -

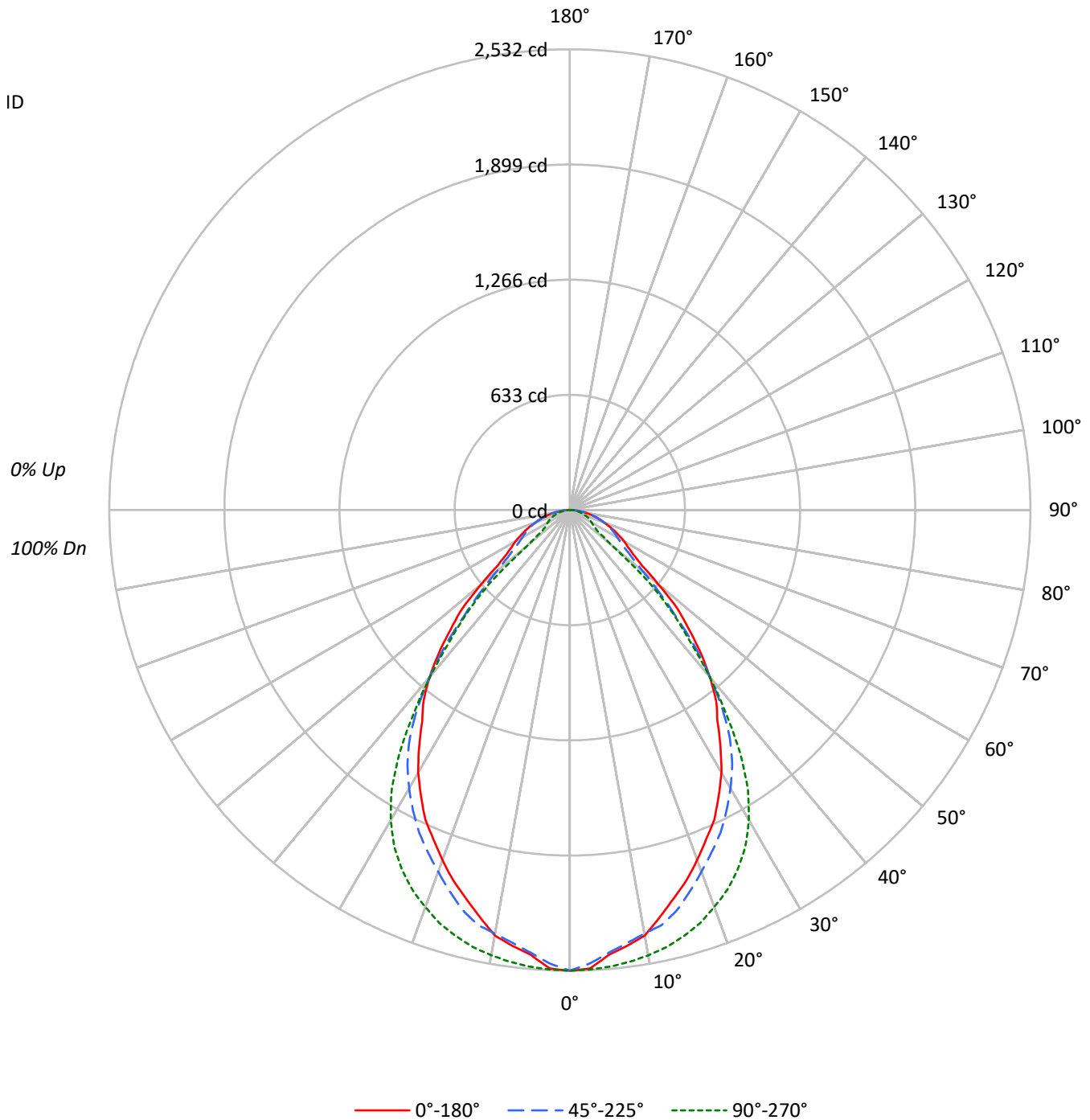
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4109.0 lumens
Efficiency: N/A
Efficacy: 122.7 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): 33.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.9948
Total Harmonic Distortion (THDi): 5.65231997856897
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	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	93	92	90	88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	85	82	80	78
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	78	74	71	69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	71	67	63	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	66	61	57	55
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	61	56	52	50
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	52	47	43	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	49	44	40	38
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	46	40	37	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18014	18014	18014
5°	17528	17448	17994
10°	17155	17080	17952
15°	16270	16770	17851
20°	15499	16022	17579
25°	14743	15373	17130
30°	13697	14512	16174
35°	12282	13336	14187
40°	11127	11151	11091
45°	9303	8240	8037
50°	7028	5800	3286
55°	5286	4638	2072
60°	4912	4272	1996
65°	4569	4263	2000
70°	4181	4181	1968
75°	3964	4071	1902
80°	3663	3852	1950
85°	3200	3355	2131

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 9521 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.9	5.7
10°-20°	644.4	15.7
20°-30°	913.8	22.2
30°-40°	941.4	22.9
40°-50°	657.5	16.0
50°-60°	315.5	7.7
60°-70°	221.3	5.4
70°-80°	138.4	3.4
80°-90°	42.8	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°	1792.0	43.6
0°-40°	2733.4	66.5
0°-60°	3706.5	90.2
0°-90°	4109.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4109.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2532	2532	2532	2532	2532	
5°	2454	2451	2443	2507	2519	232
15°	2209	2225	2277	2342	2424	622
25°	1878	1897	1958	2091	2182	859
35°	1414	1452	1535	1567	1633	891
45°	925	946	819	777	799	712
55°	426	405	374	240	167	399
65°	271	254	253	192	119	269
75°	144	142	148	128	69	152
85°	39	39	41	40	26	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2531.8	2531.8	2531.8	2531.8	2531.8
2.5°	2522.0	2514.2	2495.2	2529.8	2527.2
5°	2454.1	2450.9	2443.0	2507.0	2519.4
7.5°	2415.6	2409.1	2400.0	2470.5	2505.0
10°	2374.5	2382.4	2364.1	2428.7	2484.8
12.5°	2289.7	2310.6	2335.4	2385.6	2460.0
15°	2208.8	2225.1	2276.7	2341.9	2423.5
17.5°	2133.1	2152.0	2196.4	2294.3	2381.1
20°	2047.0	2073.1	2116.1	2241.4	2321.7
22.5°	1958.2	1982.4	2036.5	2170.9	2260.3
25°	1878.0	1896.9	1958.2	2090.7	2182.0
27.5°	1771.6	1806.8	1864.9	1992.8	2088.7
30°	1667.2	1697.2	1766.4	1874.0	1968.7
32.5°	1541.3	1585.0	1661.3	1743.5	1822.5
35°	1414.0	1452.5	1535.4	1567.4	1633.3
37.5°	1321.4	1331.8	1378.8	1374.9	1412.1
40°	1198.0	1218.9	1200.6	1151.7	1194.1
42.5°	1064.9	1089.7	1016.0	959.2	974.2
45°	924.6	946.2	818.9	777.2	798.7
47.5°	803.3	801.3	660.4	632.3	602.3
50°	634.9	655.8	524.0	471.8	296.9
52.5°	495.9	503.7	432.0	301.5	195.1
55°	426.1	405.2	373.9	239.5	167.0
57.5°	378.5	352.4	331.5	222.5	152.7
60°	345.2	315.8	300.2	211.4	140.3
62.5°	307.3	284.5	278.6	201.6	129.2
65°	271.4	253.8	253.2	192.5	118.8
67.5°	235.6	225.8	228.4	181.4	107.0
70°	201.0	199.0	201.0	167.0	94.6
72.5°	171.6	169.7	174.9	148.8	80.9
75°	144.2	142.3	148.1	127.9	69.2
77.5°	114.8	116.1	120.1	106.4	58.1
80°	89.4	89.4	94.0	83.5	47.6
82.5°	63.9	64.6	67.2	61.3	37.2
85°	39.2	39.2	41.1	40.5	26.1
87.5°	13.1	15.0	17.6	18.9	13.1
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	15.69	17.05	16.06	17.36	17.67	12.02	13.38	12.39	13.69	14.00
	3H	17.43	18.64	17.81	18.97	19.33	14.00	15.21	14.38	15.54	15.90
	4H	18.10	19.23	18.50	19.58	19.96	14.70	15.83	15.11	16.18	16.56
	6H	18.61	19.65	19.02	20.02	20.41	15.23	16.27	15.64	16.64	17.03
	8H	18.78	19.77	19.21	20.16	20.56	15.41	16.40	15.84	16.79	17.19
	12H	18.89	19.83	19.32	20.21	20.64	15.55	16.49	15.98	16.88	17.31
4H	2H	16.22	17.35	16.62	17.70	18.08	13.65	14.77	14.05	15.12	15.51
	3H	18.20	19.13	18.61	19.53	19.94	15.82	16.75	16.24	17.16	17.56
	4H	19.00	19.84	19.44	20.26	20.70	16.70	17.54	17.14	17.96	18.40
	6H	19.65	20.37	20.11	20.81	21.28	17.35	18.07	17.81	18.52	18.98
	8H	19.86	20.54	20.33	20.99	21.46	17.56	18.23	18.02	18.68	19.15
	12H	20.02	20.62	20.50	21.10	21.57	17.71	18.31	18.20	18.80	19.27
8H	4H	19.29	19.96	19.75	20.41	20.88	17.35	18.03	17.82	18.48	18.95
	6H	20.07	20.62	20.57	21.12	21.60	18.21	18.77	18.71	19.26	19.74
	8H	20.37	20.87	20.89	21.38	21.87	18.54	19.04	19.06	19.55	20.05
	12H	20.61	21.05	21.12	21.54	22.11	18.81	19.25	19.32	19.74	20.31
12H	4H	19.30	19.90	19.79	20.38	20.86	17.43	18.03	17.91	18.51	18.98
	6H	20.12	20.62	20.64	21.13	21.63	18.35	18.85	18.87	19.36	19.86
	8H	20.49	20.93	21.00	21.42	21.99	18.76	19.20	19.28	19.70	20.27