

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: P893054

Luminaire Tested: 2MB-SC3-LVRA-UNV-CC83-MID-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893054
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: 2MB-SC3-LVRA-UNV-CC83-MID-4000K
Description: Selectable 2FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 80CRI, 4000K CCT, MI lumen setting
Light Source: -
Ballast/Driver: -

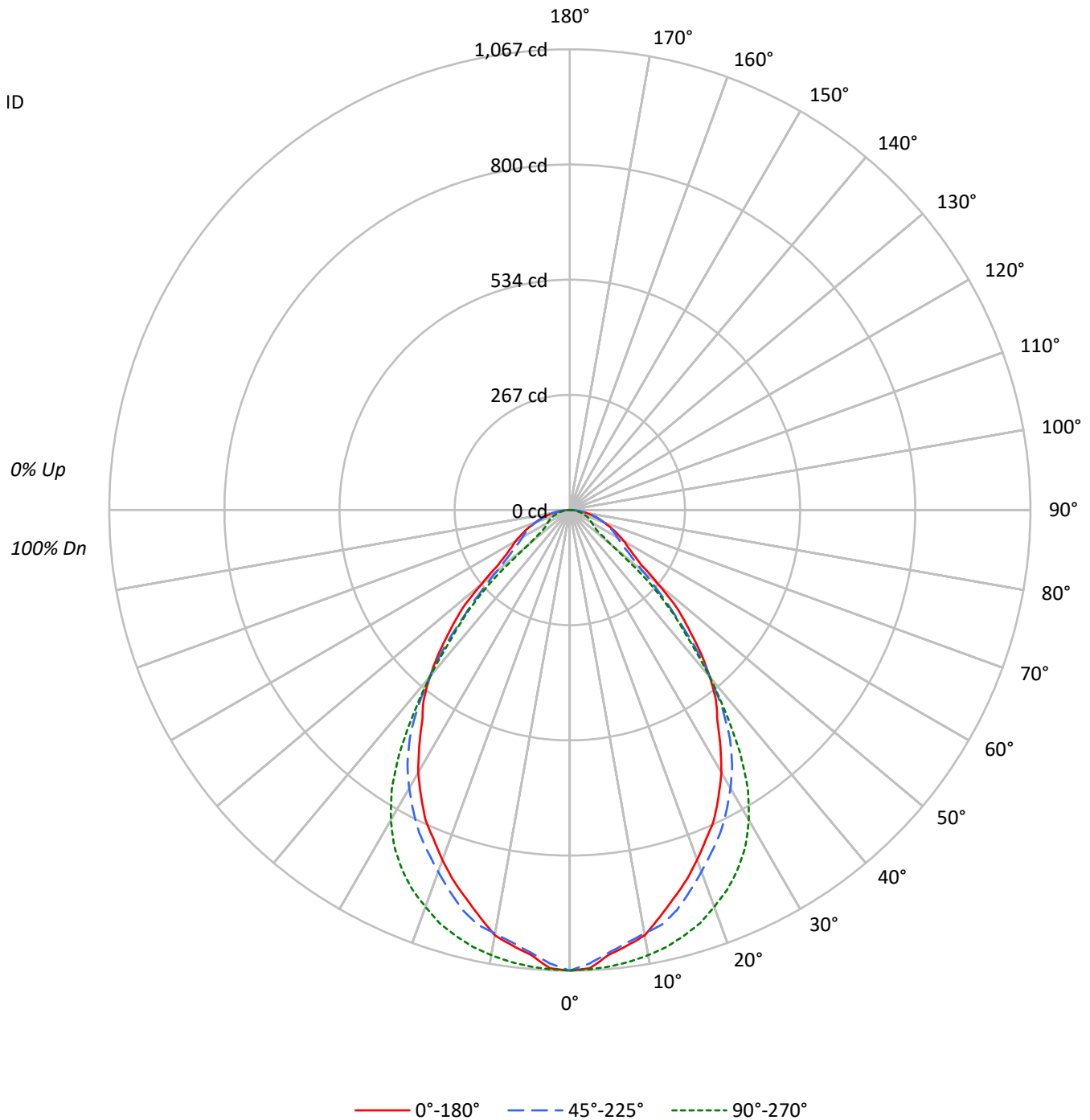
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1731.0 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.16 / 1.12
Luminous Opening: Rectangular (W 0.38' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 13.9
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	100			100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88			88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78			78
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69			69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62			62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55			55
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	50			50
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	45			45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41			41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38			38
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	35			35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15258	15258	15258
5°	14847	14779	15240
10°	14531	14467	15206
15°	13781	14204	15120
20°	13127	13572	14890
25°	12487	13021	14509
30°	11601	12291	13699
35°	10403	11296	12015
40°	9425	9446	9393
45°	7880	6980	6808
50°	5953	4912	2784
55°	4477	3928	1756
60°	4160	3616	1691
65°	3872	3612	1692
70°	3543	3543	1669
75°	3361	3449	1608
80°	3106	3262	1656
85°	2708	2840	1806

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 8064 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.5	5.7
10°-20°	271.5	15.7
20°-30°	384.9	22.2
30°-40°	396.6	22.9
40°-50°	277.0	16.0
50°-60°	132.9	7.7
60°-70°	93.2	5.4
70°-80°	58.3	3.4
80°-90°	18.0	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°	754.9	43.6
0°-40°	1151.5	66.5
0°-60°	1561.4	90.2
0°-90°	1731.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1731.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1067	1067	1067	1067	1067	
5°	1034	1032	1029	1056	1061	98
15°	930	937	959	987	1021	262
25°	791	799	825	881	919	362
35°	596	612	647	660	688	375
45°	390	399	345	327	336	300
55°	180	171	158	101	70	168
65°	114	107	107	81	50	113
75°	61	60	62	54	29	64
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°	1066.6	1066.6	1066.6	1066.6	1066.6
2.5°	1062.4	1059.1	1051.2	1065.7	1064.6
5°	1033.9	1032.5	1029.2	1056.1	1061.3
7.5°	1017.6	1014.9	1011.0	1040.7	1055.3
10°	1000.3	1003.6	995.9	1023.1	1046.8
12.5°	964.6	973.4	983.8	1005.0	1036.3
15°	930.5	937.4	959.1	986.6	1020.9
17.5°	898.6	906.6	925.3	966.5	1003.1
20°	862.3	873.3	891.5	944.2	978.1
22.5°	824.9	835.1	857.9	914.6	952.2
25°	791.1	799.1	824.9	880.7	919.2
27.5°	746.3	761.2	785.6	839.5	879.9
30°	702.3	715.0	744.1	789.5	829.3
32.5°	649.3	667.7	699.9	734.5	767.8
35°	595.7	611.9	646.8	660.3	688.0
37.5°	556.6	561.0	580.8	579.2	594.9
40°	504.7	513.5	505.8	485.2	503.0
42.5°	448.6	459.1	428.0	404.1	410.4
45°	389.5	398.6	345.0	327.4	336.5
47.5°	338.4	337.6	278.2	266.4	253.7
50°	267.5	276.3	220.7	198.7	125.1
52.5°	208.9	212.2	182.0	127.0	82.2
55°	179.5	170.7	157.5	100.9	70.4
57.5°	159.4	148.4	139.6	93.7	64.3
60°	145.4	133.0	126.4	89.1	59.1
62.5°	129.5	119.9	117.4	84.9	54.4
65°	114.4	106.9	106.7	81.1	50.0
67.5°	99.2	95.1	96.2	76.4	45.1
70°	84.7	83.8	84.7	70.4	39.9
72.5°	72.3	71.5	73.7	62.7	34.1
75°	60.8	59.9	62.4	53.9	29.1
77.5°	48.4	48.9	50.6	44.8	24.5
80°	37.7	37.7	39.6	35.2	20.1
82.5°	26.9	27.2	28.3	25.8	15.7
85°	16.5	16.5	17.3	17.0	11.0
87.5°	5.5	6.3	7.4	8.0	5.5
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	15.11	16.47	15.48	16.78	17.09	11.44	12.80	11.81	13.11	13.43
	3H	16.85	18.06	17.23	18.39	18.75	13.42	14.63	13.80	14.96	15.32
	4H	17.52	18.65	17.93	19.00	19.38	14.13	15.25	14.53	15.60	15.99
	6H	18.03	19.07	18.45	19.44	19.83	14.65	15.69	15.07	16.06	16.45
	8H	18.20	19.19	18.63	19.58	19.98	14.84	15.82	15.27	16.21	16.62
	12H	18.31	19.25	18.74	19.64	20.07	14.98	15.92	15.41	16.30	16.73
4H	2H	15.64	16.77	16.05	17.12	17.50	13.07	14.20	13.47	14.55	14.93
	3H	17.62	18.55	18.03	18.95	19.36	15.25	16.18	15.66	16.58	16.98
	4H	18.42	19.26	18.86	19.68	20.12	16.13	16.96	16.56	17.38	17.82
	6H	19.07	19.79	19.53	20.24	20.70	16.77	17.50	17.23	17.94	18.41
	8H	19.29	19.96	19.76	20.41	20.88	16.98	17.66	17.45	18.10	18.57
	12H	19.44	20.04	19.93	20.52	21.00	17.14	17.74	17.62	18.22	18.69
8H	4H	18.71	19.38	19.18	19.83	20.30	16.78	17.45	17.24	17.90	18.37
	6H	19.49	20.05	19.99	20.54	21.02	17.64	18.19	18.14	18.69	19.17
	8H	19.79	20.29	20.31	20.81	21.30	17.97	18.46	18.49	18.98	19.47
	12H	20.03	20.47	20.54	20.96	21.53	18.23	18.67	18.74	19.16	19.73
12H	4H	18.73	19.33	19.21	19.81	20.28	16.85	17.45	17.33	17.93	18.40
	6H	19.54	20.04	20.06	20.56	21.05	17.78	18.28	18.30	18.79	19.28
	8H	19.91	20.35	20.42	20.84	21.41	18.19	18.63	18.70	19.12	19.69