

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: P893055

Luminaire Tested: 2MB-SC3-LVRA-UNV-CC83-MID-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893055
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-5000K
Description: Selectable 2FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 80CRI, 5000K CCT, MI lumen setting
Light Source: -
Ballast/Driver: -

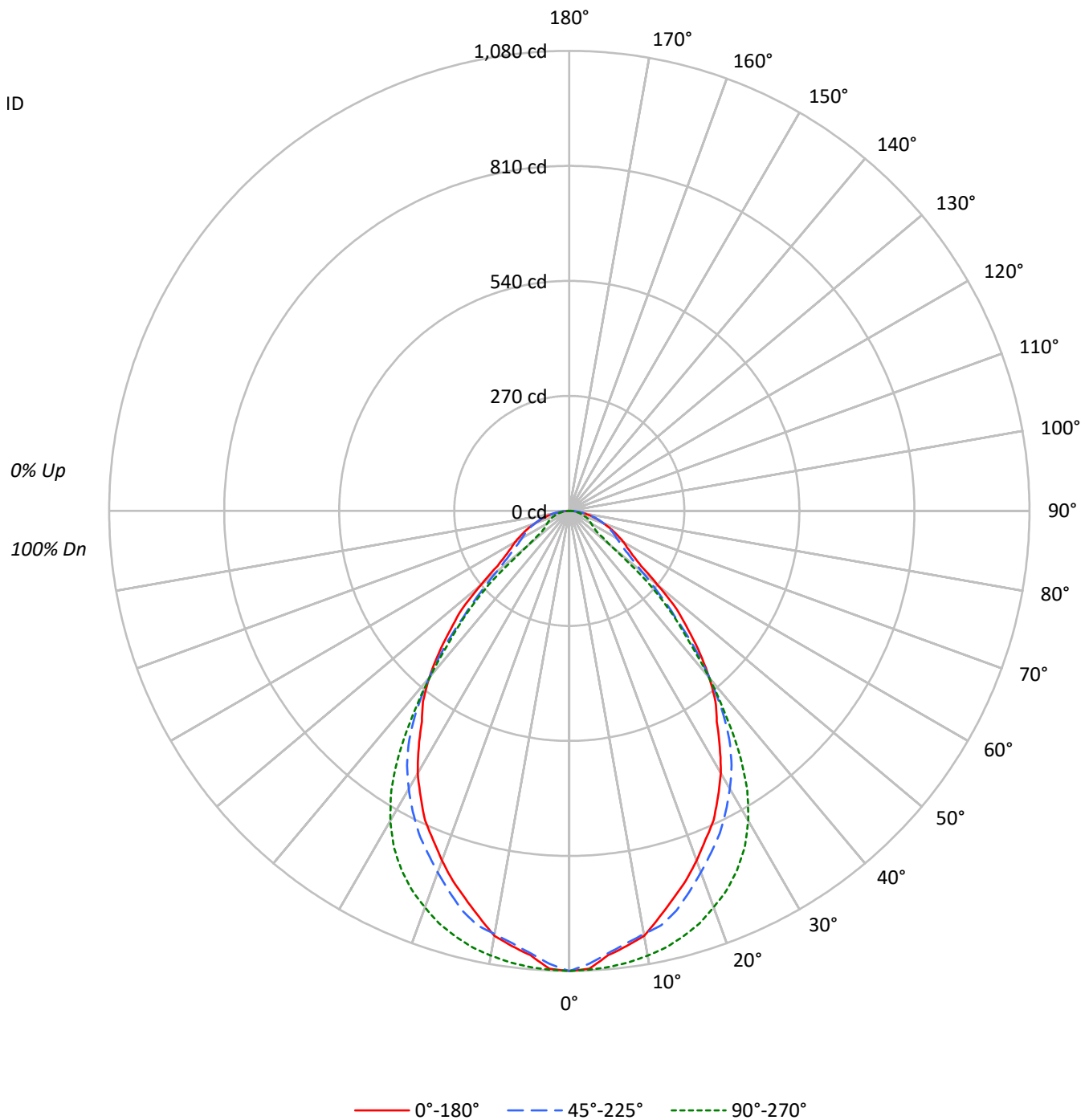
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1753.0 lumens
Efficiency: N/A
Efficacy: 126.1 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	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°	15451	15451	15451
5°	15035	14968	15434
10°	14715	14651	15399
15°	13956	14385	15312
20°	13295	13744	15079
25°	12646	13186	14694
30°	11750	12448	13874
35°	10536	11439	12169
40°	9545	9565	9513
45°	7981	7069	6893
50°	6029	4974	2820
55°	4534	3978	1778
60°	4214	3665	1714
65°	3920	3656	1716
70°	3585	3585	1690
75°	3399	3493	1631
80°	3139	3304	1672
85°	2741	2872	1822

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 8167 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.8	5.7
10°-20°	274.9	15.7
20°-30°	389.8	22.2
30°-40°	401.6	22.9
40°-50°	280.5	16.0
50°-60°	134.6	7.7
60°-70°	94.4	5.4
70°-80°	59.0	3.4
80°-90°	18.3	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°	764.5	43.6
0°-40°	1166.1	66.5
0°-60°	1581.3	90.2
0°-90°	1753.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1753.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1080	1080	1080	1080	1080	
5°	1047	1046	1042	1070	1075	99
15°	942	949	971	999	1034	265
25°	801	809	835	892	931	366
35°	603	620	655	669	697	380
45°	394	404	349	332	341	304
55°	182	173	160	102	71	170
65°	116	108	108	82	51	115
75°	62	61	63	55	30	65
85°	17	17	18	17	11	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1080.1	1080.1	1080.1	1080.1	1080.1
2.5°	1075.9	1072.6	1064.5	1079.3	1078.2
5°	1047.0	1045.6	1042.3	1069.5	1074.8
7.5°	1030.6	1027.8	1023.9	1054.0	1068.7
10°	1013.0	1016.4	1008.6	1036.1	1060.1
12.5°	976.8	985.8	996.3	1017.8	1049.5
15°	942.3	949.3	971.3	999.1	1033.9
17.5°	910.0	918.1	937.0	978.8	1015.8
20°	873.3	884.4	902.8	956.2	990.5
22.5°	835.4	845.7	868.8	926.2	964.3
25°	801.2	809.3	835.4	891.9	930.9
27.5°	755.8	770.8	795.6	850.2	891.1
30°	711.3	724.1	753.6	799.5	839.9
32.5°	657.5	676.2	708.8	743.8	777.5
35°	603.3	619.7	655.0	668.7	696.8
37.5°	563.7	568.2	588.2	586.6	602.4
40°	511.1	520.0	512.2	491.3	509.4
42.5°	454.3	464.9	433.4	409.2	415.6
45°	394.5	403.7	349.4	331.6	340.7
47.5°	342.7	341.9	281.7	269.8	256.9
50°	270.9	279.8	223.5	201.3	126.7
52.5°	211.6	214.9	184.3	128.6	83.2
55°	181.8	172.9	159.5	102.2	71.3
57.5°	161.5	150.3	141.4	94.9	65.1
60°	147.3	134.7	128.1	90.2	59.9
62.5°	131.1	121.4	118.9	86.0	55.1
65°	115.8	108.3	108.0	82.1	50.7
67.5°	100.5	96.3	97.4	77.4	45.7
70°	85.7	84.9	85.7	71.3	40.4
72.5°	73.2	72.4	74.6	63.5	34.5
75°	61.5	60.7	63.2	54.6	29.5
77.5°	49.0	49.6	51.2	45.4	24.8
80°	38.1	38.1	40.1	35.6	20.3
82.5°	27.3	27.6	28.7	26.2	15.9
85°	16.7	16.7	17.5	17.3	11.1
87.5°	5.6	6.4	7.5	8.1	5.6
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	15.16	16.51	15.52	16.82	17.14	11.49	12.84	11.85	13.15	13.47
	3H	16.90	18.10	17.28	18.43	18.80	13.47	14.67	13.85	15.00	15.37
	4H	17.57	18.70	17.97	19.05	19.43	14.17	15.30	14.57	15.65	16.03
	6H	18.07	19.11	18.49	19.48	19.88	14.69	15.73	15.11	16.10	16.50
	8H	18.25	19.23	18.68	19.62	20.03	14.88	15.87	15.31	16.26	16.66
	12H	18.36	19.30	18.79	19.68	20.11	15.02	15.96	15.45	16.34	16.77
4H	2H	15.69	16.82	16.09	17.17	17.55	13.11	14.24	13.51	14.59	14.97
	3H	17.67	18.60	18.08	19.00	19.40	15.29	16.22	15.70	16.62	17.03
	4H	18.47	19.30	18.90	19.72	20.16	16.17	17.01	16.61	17.43	17.87
	6H	19.11	19.84	19.57	20.28	20.75	16.81	17.54	17.28	17.98	18.45
	8H	19.33	20.01	19.80	20.45	20.92	17.02	17.70	17.49	18.15	18.62
	12H	19.49	20.09	19.97	20.57	21.04	17.18	17.78	17.67	18.26	18.74
8H	4H	18.75	19.43	19.22	19.87	20.34	16.82	17.50	17.29	17.94	18.41
	6H	19.54	20.09	20.04	20.59	21.07	17.68	18.24	18.18	18.73	19.21
	8H	19.84	20.34	20.36	20.85	21.34	18.01	18.51	18.53	19.02	19.51
	12H	20.07	20.51	20.59	21.01	21.58	18.27	18.71	18.79	19.21	19.78
12H	4H	18.77	19.37	19.25	19.85	20.32	16.89	17.49	17.38	17.97	18.45
	6H	19.59	20.09	20.11	20.60	21.09	17.82	18.32	18.34	18.83	19.32
	8H	19.95	20.39	20.47	20.89	21.46	18.23	18.67	18.75	19.17	19.74