

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: P893053

Luminaire Tested: 2MB-SC3-LVRA-UNV-CC83-MID-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893053
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-3500K
Description: Selectable 2FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 80CRI, 3500K CCT, MI lumen setting
Light Source: -
Ballast/Driver: -

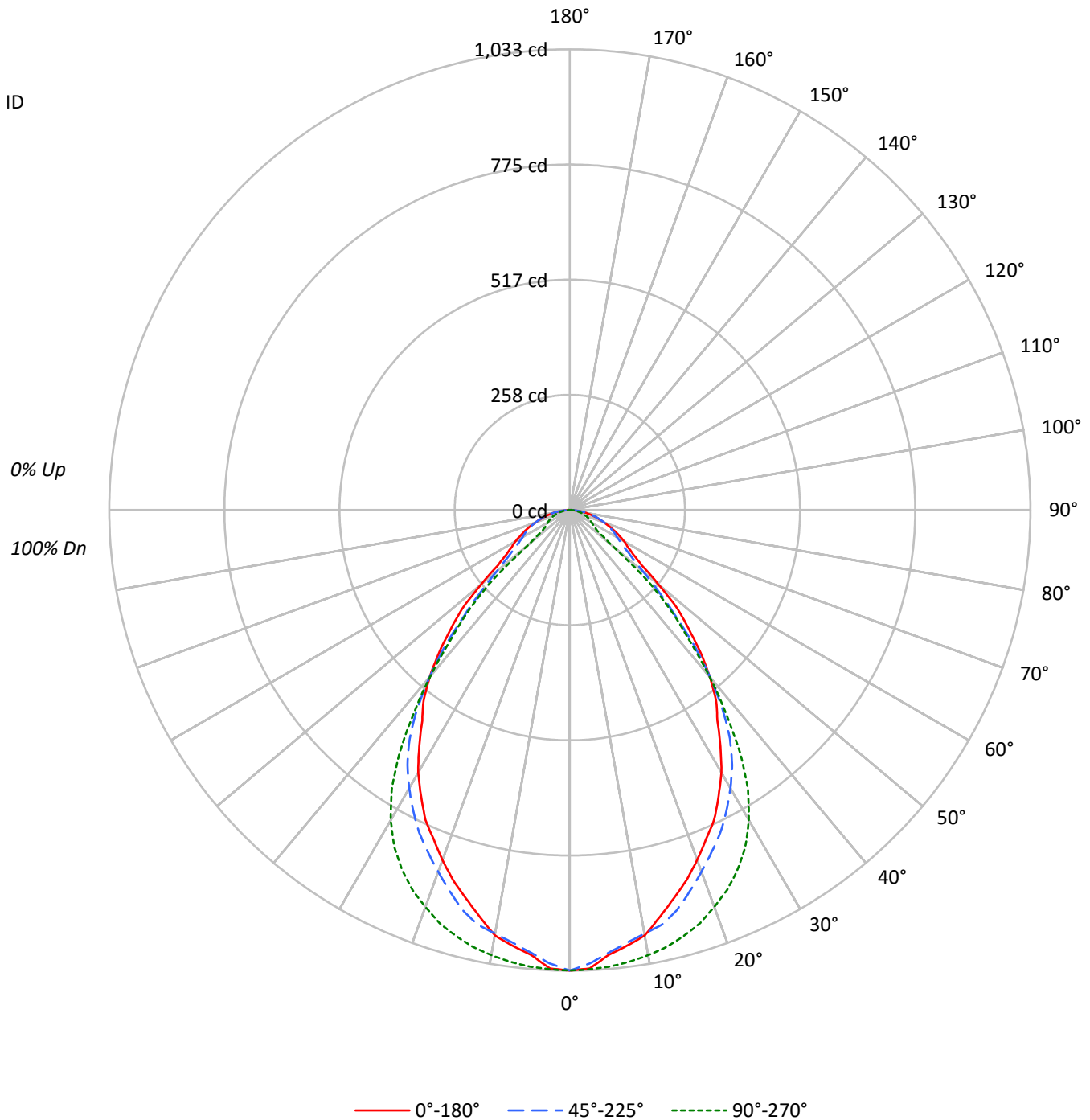
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1676.0 lumens
Efficiency: N/A
Efficacy: 120.6 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°	14773	14773	14773
5°	14374	14310	14756
10°	14069	14008	14722
15°	13342	13753	14640
20°	12710	13139	14417
25°	12091	12607	14048
30°	11233	11902	13264
35°	10073	10938	11634
40°	9126	9145	9096
45°	7629	6757	6591
50°	5764	4756	2695
55°	4335	3803	1698
60°	4028	3502	1637
65°	3747	3497	1638
70°	3430	3430	1615
75°	3250	3338	1559
80°	3007	3155	1598
85°	2626	2758	1740

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 7807 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.4	5.7
10°-20°	262.8	15.7
20°-30°	372.7	22.2
30°-40°	384.0	22.9
40°-50°	268.2	16.0
50°-60°	128.7	7.7
60°-70°	90.3	5.4
70°-80°	56.5	3.4
80°-90°	17.5	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°	730.9	43.6
0°-40°	1114.9	66.5
0°-60°	1511.8	90.2
0°-90°	1676.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1676.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1033	1033	1033	1033	1033	
5°	1001	1000	996	1023	1028	95
15°	901	908	929	955	988	254
25°	766	774	799	853	890	350
35°	577	592	626	639	666	363
45°	377	386	334	317	326	291
55°	174	165	152	98	68	163
65°	111	104	103	78	48	110
75°	59	58	60	52	28	62
85°	16	16	17	16	11	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1032.7	1032.7	1032.7	1032.7	1032.7
2.5°	1028.7	1025.5	1017.8	1031.9	1030.8
5°	1001.0	999.7	996.5	1022.6	1027.6
7.5°	985.3	982.6	978.9	1007.7	1021.8
10°	968.5	971.7	964.3	990.6	1013.5
12.5°	933.9	942.5	952.6	973.1	1003.4
15°	900.9	907.6	928.6	955.2	988.5
17.5°	870.1	877.8	895.9	935.8	971.2
20°	834.9	845.6	863.1	914.2	947.0
22.5°	798.7	808.6	830.7	885.5	922.0
25°	766.0	773.7	798.7	852.8	890.0
27.5°	722.6	737.0	760.7	812.8	852.0
30°	680.0	692.3	720.5	764.4	803.0
32.5°	628.7	646.5	677.6	711.2	743.4
35°	576.8	592.5	626.3	639.3	666.2
37.5°	539.0	543.2	562.4	560.8	576.0
40°	488.7	497.2	489.7	469.8	487.1
42.5°	434.4	444.5	414.4	391.2	397.4
45°	377.1	385.9	334.0	317.0	325.8
47.5°	327.6	326.8	269.3	257.9	245.7
50°	259.0	267.5	213.7	192.4	121.1
52.5°	202.3	205.5	176.2	123.0	79.6
55°	173.8	165.3	152.5	97.7	68.1
57.5°	154.4	143.7	135.2	90.8	62.3
60°	140.8	128.8	122.4	86.2	57.2
62.5°	125.4	116.0	113.6	82.2	52.7
65°	110.7	103.5	103.3	78.5	48.4
67.5°	96.1	92.1	93.2	74.0	43.6
70°	82.0	81.2	82.0	68.1	38.6
72.5°	70.0	69.2	71.3	60.7	33.0
75°	58.8	58.0	60.4	52.2	28.2
77.5°	46.8	47.4	49.0	43.4	23.7
80°	36.5	36.5	38.3	34.1	19.4
82.5°	26.1	26.3	27.4	25.0	15.2
85°	16.0	16.0	16.8	16.5	10.6
87.5°	5.3	6.1	7.2	7.7	5.3
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	15.00	16.36	15.37	16.67	16.98	11.34	12.69	11.70	13.00	13.32
	3H	16.74	17.95	17.12	18.28	18.64	13.31	14.52	13.69	14.85	15.21
	4H	17.41	18.54	17.81	18.89	19.27	14.02	15.14	14.42	15.49	15.88
	6H	17.92	18.96	18.33	19.33	19.72	14.54	15.58	14.95	15.95	16.34
	8H	18.09	19.08	18.52	19.47	19.87	14.72	15.71	15.15	16.10	16.50
	12H	18.20	19.14	18.63	19.53	19.96	14.86	15.81	15.29	16.19	16.62
4H	2H	15.53	16.66	15.93	17.01	17.39	12.96	14.09	13.36	14.44	14.82
	3H	17.51	18.44	17.92	18.84	19.25	15.14	16.07	15.55	16.47	16.87
	4H	18.31	19.15	18.75	19.57	20.01	16.02	16.85	16.45	17.27	17.71
	6H	18.96	19.68	19.42	20.13	20.59	16.66	17.38	17.12	17.83	18.29
	8H	19.18	19.85	19.64	20.30	20.77	16.87	17.54	17.34	17.99	18.46
	12H	19.33	19.93	19.82	20.41	20.89	17.03	17.63	17.51	18.11	18.58
8H	4H	18.60	19.27	19.06	19.72	20.19	16.66	17.34	17.13	17.79	18.26
	6H	19.38	19.94	19.88	20.43	20.91	17.53	18.08	18.03	18.58	19.06
	8H	19.68	20.18	20.20	20.69	21.19	17.85	18.35	18.37	18.87	19.36
	12H	19.92	20.36	20.43	20.85	21.42	18.12	18.56	18.63	19.05	19.62
12H	4H	18.61	19.21	19.10	19.70	20.17	16.74	17.34	17.22	17.82	18.29
	6H	19.43	19.93	19.95	20.45	20.94	17.66	18.16	18.18	18.68	19.17
	8H	19.80	20.24	20.31	20.73	21.30	18.08	18.52	18.59	19.01	19.58