

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: P894267

Luminaire Tested: 4MB-SC3-LVRF-UNV-CC83-MID-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894267
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-7)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4MB-SC3-LVRF-UNV-CC83-MID-3500K
Description: Selectable 4FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 80CRI, 3500K CCT
lumen setting
Light Source: -
Ballast/Driver: -

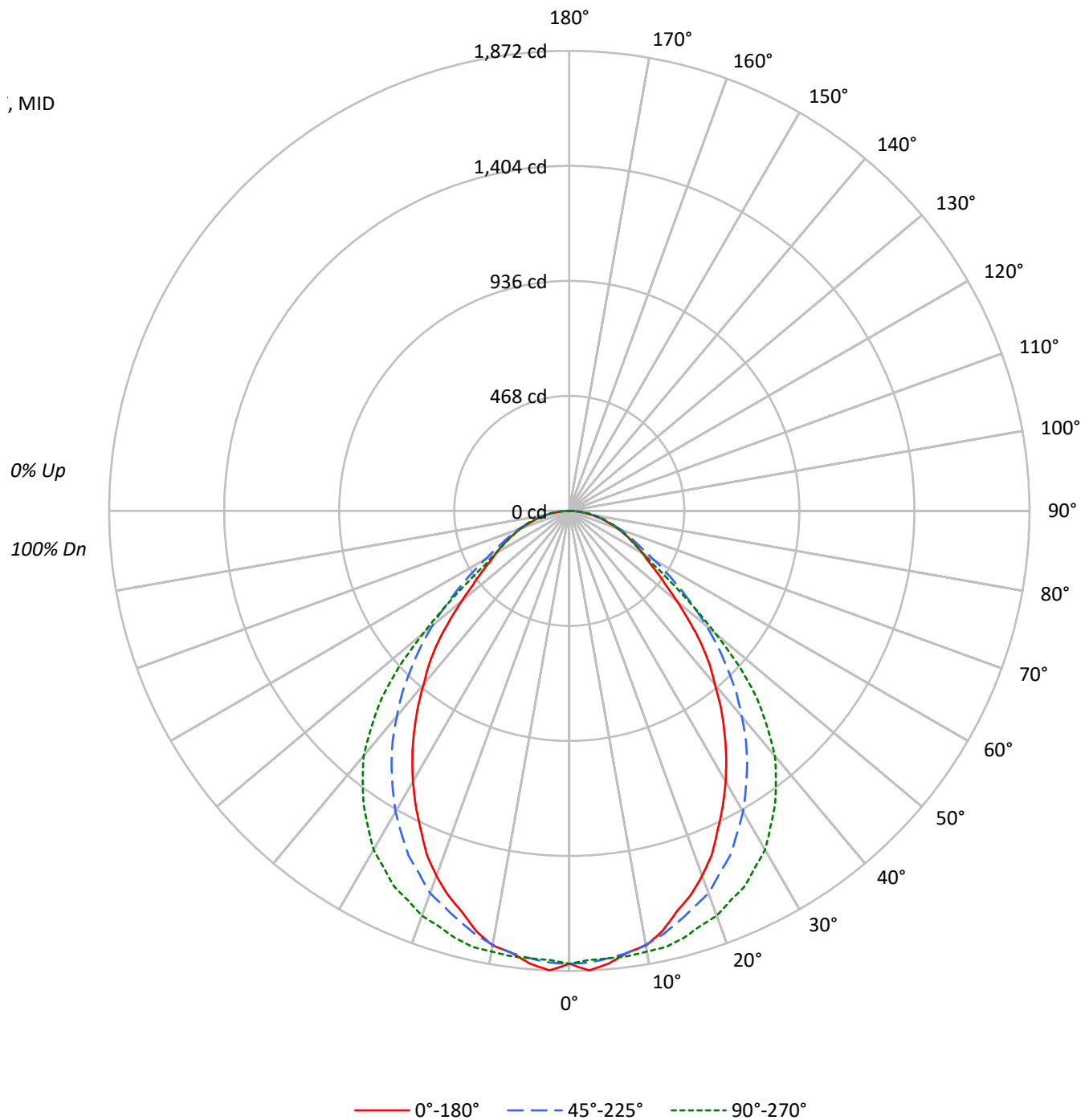
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3830.0 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.27 / 1.23
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	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	89	89	89	87
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	77	77	77	75
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	71	67	67	67	67	65
4	87	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59	59	59	59	57
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	56	52	52	52	52	50
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	47	47	47	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	42	42	42	40
8	65	52	44	39	63	52	44	39	50	44	39	49	43	38	48	42	38	38	38	38	36
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13112	13112	13112
5°	13203	13052	13052
10°	12975	12954	13155
15°	12437	12727	13249
20°	11965	12539	13271
25°	11225	12150	13241
30°	10448	11613	13085
35°	9564	10954	12668
40°	8563	10129	12087
45°	7598	9170	10867
50°	6321	8073	8571
55°	5385	6800	6230
60°	4882	5618	4922
65°	4598	4921	4583
70°	4327	4566	4466
75°	4030	4346	4266
80°	3692	4003	4122
85°	3208	3518	4612

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 10867 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.5	4.6
10°-20°	491.0	12.8
20°-30°	713.0	18.6
30°-40°	793.9	20.7
40°-50°	701.4	18.3
50°-60°	460.2	12.0
60°-70°	281.8	7.4
70°-80°	164.0	4.3
80°-90°	50.2	1.3
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°	1378.4	36.0
0°-40°	2172.3	56.7
0°-60°	3333.9	87.0
0°-90°	3830.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3830.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1843	1843	1843	1843	1843	
5°	1849	1850	1828	1846	1828	174
15°	1688	1708	1728	1796	1799	476
25°	1430	1464	1548	1646	1687	658
35°	1101	1160	1261	1394	1458	687
45°	755	801	911	1034	1080	578
55°	434	465	548	543	502	394
65°	273	278	292	284	272	272
75°	147	148	158	161	155	156
85°	39	41	43	49	56	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1842.8	1842.8	1842.8	1842.8	1842.8
2.5°	1871.6	1848.6	1839.9	1848.6	1829.4
5°	1848.6	1849.5	1827.5	1845.7	1827.5
7.5°	1812.2	1824.6	1814.1	1841.9	1827.5
10°	1795.9	1796.8	1793.0	1821.7	1820.8
12.5°	1750.8	1753.7	1764.2	1807.4	1816.9
15°	1688.5	1707.7	1727.8	1795.9	1798.7
17.5°	1639.7	1662.7	1689.5	1762.3	1770.9
20°	1580.2	1589.8	1656.0	1720.2	1752.7
22.5°	1514.1	1532.3	1596.5	1682.8	1715.4
25°	1429.8	1464.3	1547.7	1646.4	1686.6
27.5°	1352.2	1392.4	1478.7	1588.9	1635.8
30°	1271.7	1317.7	1413.5	1521.8	1592.7
32.5°	1188.3	1245.8	1336.8	1461.4	1523.7
35°	1101.1	1160.5	1261.1	1394.3	1458.5
37.5°	1013.9	1071.4	1180.6	1323.4	1380.9
40°	921.9	978.4	1090.6	1235.3	1301.4
42.5°	842.4	891.2	1006.2	1129.8	1191.2
45°	755.1	801.1	911.3	1034.0	1080.0
47.5°	659.3	713.0	820.3	920.9	939.1
50°	571.1	626.7	729.3	787.7	774.3
52.5°	493.5	540.5	634.4	659.3	627.7
55°	434.1	464.8	548.2	543.4	502.2
57.5°	379.5	398.7	469.6	442.7	403.4
60°	343.1	351.7	394.8	369.9	345.9
62.5°	308.6	312.4	335.4	322.0	303.8
65°	273.1	277.9	292.3	283.7	272.2
67.5°	240.5	242.5	255.9	254.0	239.6
70°	208.0	210.8	219.5	223.3	214.7
72.5°	176.3	179.2	187.8	191.7	184.0
75°	146.6	148.5	158.1	161.0	155.2
77.5°	117.9	121.7	127.5	132.2	125.5
80°	90.1	92.0	97.7	103.5	100.6
82.5°	63.2	66.1	70.0	77.6	79.5
85°	39.3	41.2	43.1	48.9	56.5
87.5°	15.3	16.3	19.2	21.1	27.8
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	16.47	17.95	16.84	18.27	18.58	17.12	18.60	17.49	18.92	19.23
	3H	18.07	19.40	18.45	19.73	20.09	18.56	19.88	18.94	20.21	20.57
	4H	18.69	19.93	19.09	20.28	20.66	19.16	20.41	19.56	20.75	21.13
	6H	19.16	20.31	19.57	20.67	21.07	19.65	20.80	20.06	21.16	21.56
	8H	19.31	20.40	19.74	20.79	21.19	19.85	20.94	20.27	21.33	21.73
	12H	19.41	20.46	19.84	20.84	21.27	20.01	21.06	20.45	21.44	21.87
4H	2H	17.09	18.34	17.49	18.69	19.06	17.62	18.86	18.02	19.21	19.59
	3H	18.91	19.94	19.32	20.34	20.74	19.31	20.34	19.72	20.74	21.14
	4H	19.65	20.58	20.08	20.99	21.43	20.07	20.99	20.50	21.41	21.85
	6H	20.25	21.05	20.71	21.50	21.96	20.70	21.51	21.16	21.95	22.41
	8H	20.45	21.20	20.91	21.64	22.11	20.96	21.71	21.42	22.15	22.62
	12H	20.59	21.26	21.07	21.74	22.21	21.18	21.85	21.66	22.33	22.80
8H	4H	19.97	20.72	20.43	21.17	21.64	20.34	21.09	20.80	21.53	22.00
	6H	20.69	21.32	21.19	21.81	22.29	21.11	21.73	21.61	22.23	22.70
	8H	20.97	21.53	21.48	22.04	22.53	21.46	22.02	21.97	22.53	23.02
	12H	21.18	21.68	21.70	22.17	22.74	21.77	22.27	22.28	22.76	23.33
12H	4H	20.00	20.68	20.49	21.16	21.63	20.36	21.03	20.84	21.51	21.98
	6H	20.76	21.32	21.27	21.83	22.32	21.16	21.72	21.67	22.23	22.72
	8H	21.09	21.59	21.60	22.08	22.65	21.56	22.06	22.07	22.55	23.12