

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: P894231

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894231
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-8)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4MB-SC3-LVR-UNV-CC83-MID-3500K
Description: Selectable 4FT MICROBAY LINEAR BAY with LOUVER, 80CRI, 3500K CCT, MID lumen setting
Light Source: -
Ballast/Driver: -

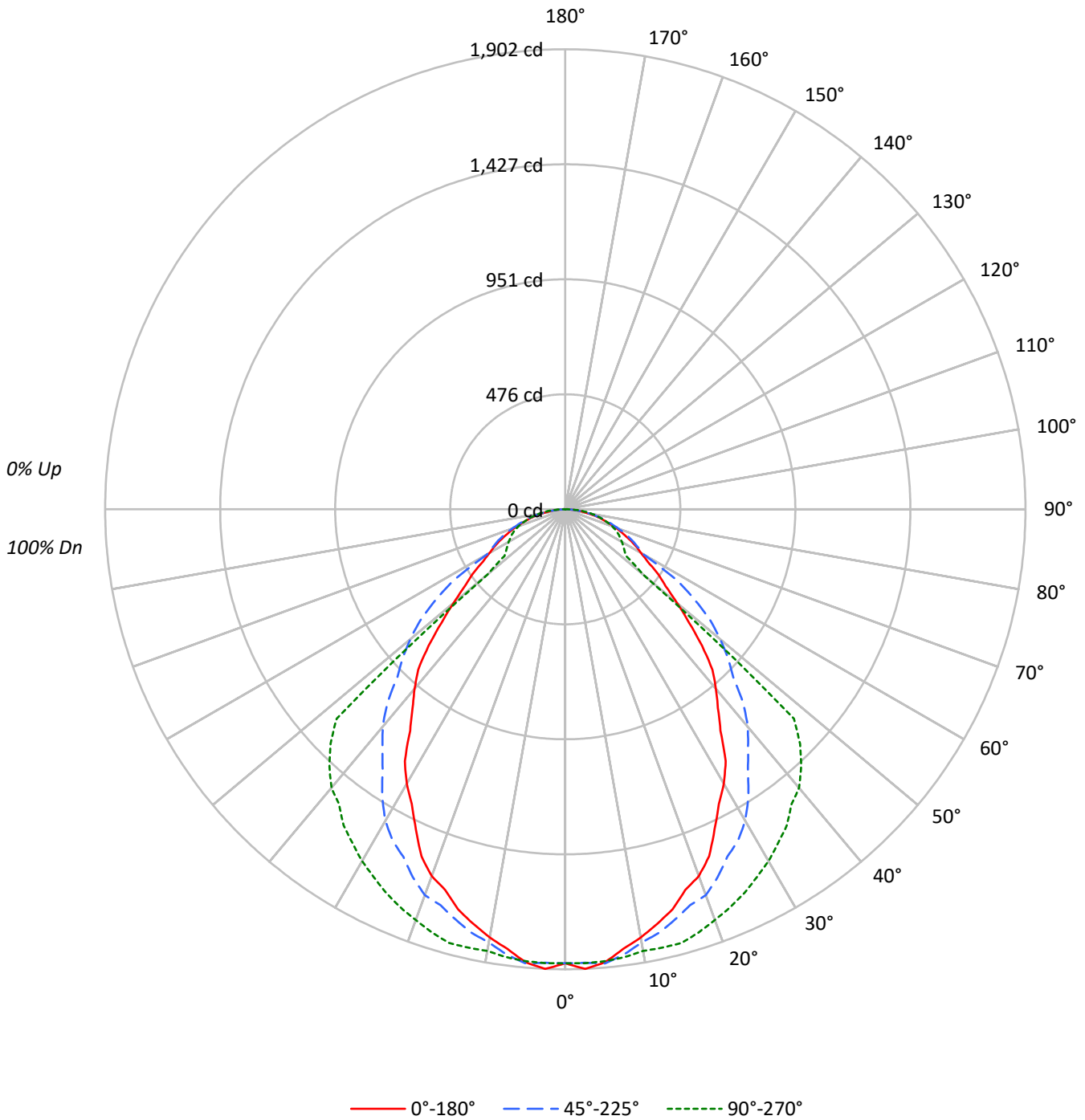
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4006.0 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.32 / 1.27
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 (A_{in}): 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	71	80	74	69	77	72	68	75	71	67	67	67	67	65
4	87	76	68	62	84	74	67	61	72	66	61	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	57	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	43	39	49	43	38	48	42	38	38	38	38	36
9	61	48	40	35	59	48	40	35	47	40	35	45	39	35	44	39	35	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13356	13356	13356
5°	13428	13462	13394
10°	12987	13140	13396
15°	12613	12931	13672
20°	12218	12856	13683
25°	11463	12442	13744
30°	10767	12217	13800
35°	9710	11425	13865
40°	8994	10899	13963
45°	8046	9879	13805
50°	6675	9254	4638
55°	5815	8123	3710
60°	5143	5294	3848
65°	4891	5148	4084
70°	4587	4866	4308
75°	4269	4585	4429
80°	3888	4323	4634
85°	3445	3682	5012

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 13805 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.0	4.4
10°-20°	500.9	12.5
20°-30°	736.8	18.4
30°-40°	842.6	21.0
40°-50°	797.9	19.9
50°-60°	439.6	11.0
60°-70°	282.2	7.0
70°-80°	174.2	4.3
80°-90°	53.6	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°	1415.8	35.3
0°-40°	2258.4	56.4
0°-60°	3495.9	87.3
0°-90°	4006.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4006.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1877	1877	1877	1877	1877	
5°	1880	1895	1885	1885	1875	176
15°	1712	1733	1756	1848	1856	481
25°	1460	1525	1585	1688	1751	672
35°	1118	1214	1315	1506	1596	707
45°	800	875	982	1260	1372	612
55°	469	492	655	338	299	419
65°	290	300	306	272	243	288
75°	155	158	167	175	161	165
85°	42	42	45	52	61	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1877.2	1877.2	1877.2	1877.2	1877.2
2.5°	1902.1	1906.9	1876.3	1875.3	1878.2
5°	1880.1	1895.4	1884.9	1884.9	1875.3
7.5°	1833.1	1859.0	1856.1	1878.2	1867.6
10°	1797.6	1818.7	1818.7	1876.3	1854.2
12.5°	1755.5	1779.4	1792.8	1853.2	1856.1
15°	1712.3	1733.4	1755.5	1847.5	1856.1
17.5°	1650.0	1688.3	1716.1	1806.3	1834.1
20°	1613.6	1636.6	1697.9	1770.8	1807.2
22.5°	1553.2	1586.7	1646.2	1727.7	1781.3
25°	1460.2	1525.4	1584.8	1688.3	1750.7
27.5°	1373.9	1422.8	1545.5	1654.8	1714.2
30°	1310.6	1349.0	1487.0	1605.9	1679.7
32.5°	1233.9	1296.2	1408.4	1558.0	1636.6
35°	1117.9	1213.8	1315.4	1506.2	1596.3
37.5°	1036.4	1102.6	1240.6	1452.5	1535.9
40°	968.3	1028.7	1173.5	1385.4	1503.3
42.5°	900.3	949.2	1089.1	1335.5	1442.9
45°	799.6	875.3	981.8	1259.8	1372.0
47.5°	694.1	774.7	911.8	1195.6	1281.8
50°	603.0	667.3	836.0	1068.0	419.0
52.5°	523.5	582.9	755.5	386.4	316.4
55°	468.8	491.8	654.8	337.5	299.1
57.5°	403.6	441.0	549.4	321.2	283.8
60°	361.4	377.7	372.0	304.9	270.4
62.5°	327.9	339.4	337.5	288.6	255.0
65°	290.5	300.1	305.8	272.3	242.6
67.5°	253.1	261.7	270.4	252.1	225.3
70°	220.5	226.3	233.9	228.2	207.1
72.5°	187.0	193.7	198.5	203.3	183.1
75°	155.3	158.2	166.8	175.4	161.1
77.5°	126.6	129.4	135.2	144.8	137.1
80°	94.9	97.8	105.5	113.1	113.1
82.5°	67.1	69.0	73.8	84.4	89.2
85°	42.2	42.2	45.1	51.8	61.4
87.5°	16.3	16.3	19.2	23.0	30.7
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	16.96	18.44	17.32	18.75	19.07	14.76	16.24	15.12	16.55	16.87
	3H	18.48	19.81	18.86	20.14	20.50	17.09	18.42	17.47	18.74	19.11
	4H	19.07	20.32	19.47	20.67	21.05	18.04	19.28	18.44	19.63	20.01
	6H	19.53	20.68	19.94	21.05	21.44	18.82	19.97	19.24	20.34	20.73
	8H	19.68	20.77	20.10	21.16	21.56	19.13	20.23	19.56	20.62	21.02
	12H	19.77	20.82	20.20	21.20	21.63	19.38	20.43	19.81	20.81	21.24
4H	2H	17.51	18.75	17.91	19.10	19.48	15.86	17.11	16.26	17.45	17.83
	3H	19.28	20.31	19.69	20.71	21.11	18.31	19.34	18.72	19.74	20.14
	4H	20.00	20.92	20.43	21.34	21.78	19.37	20.30	19.81	20.72	21.16
	6H	20.58	21.39	21.04	21.83	22.29	20.26	21.07	20.72	21.51	21.97
	8H	20.77	21.53	21.24	21.97	22.44	20.61	21.37	21.08	21.81	22.28
	12H	20.91	21.58	21.39	22.06	22.53	20.90	21.57	21.39	22.05	22.53
8H	4H	20.30	21.06	20.77	21.50	21.97	19.76	20.51	20.22	20.96	21.43
	6H	21.02	21.64	21.51	22.13	22.61	20.80	21.42	21.29	21.91	22.39
	8H	21.28	21.84	21.79	22.35	22.84	21.24	21.80	21.76	22.31	22.80
	12H	21.49	21.99	22.00	22.48	23.04	21.63	22.12	22.14	22.62	23.18
12H	4H	20.34	21.01	20.82	21.49	21.96	19.80	20.47	20.28	20.95	21.42
	6H	21.08	21.64	21.60	22.15	22.64	20.86	21.42	21.37	21.93	22.42
	8H	21.40	21.90	21.91	22.39	22.96	21.37	21.87	21.88	22.36	22.93