

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: P893634

Luminaire Tested: 4MB-5SL-LVR-UNV-L835

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893634
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-5SL-LVR-UNV-L835
Description: 5000 Lumen 4FT MICROBAY LINEAR BAY with LOUVER, 80CRI, 3500K CCT
Light Source: -
Ballast/Driver: -

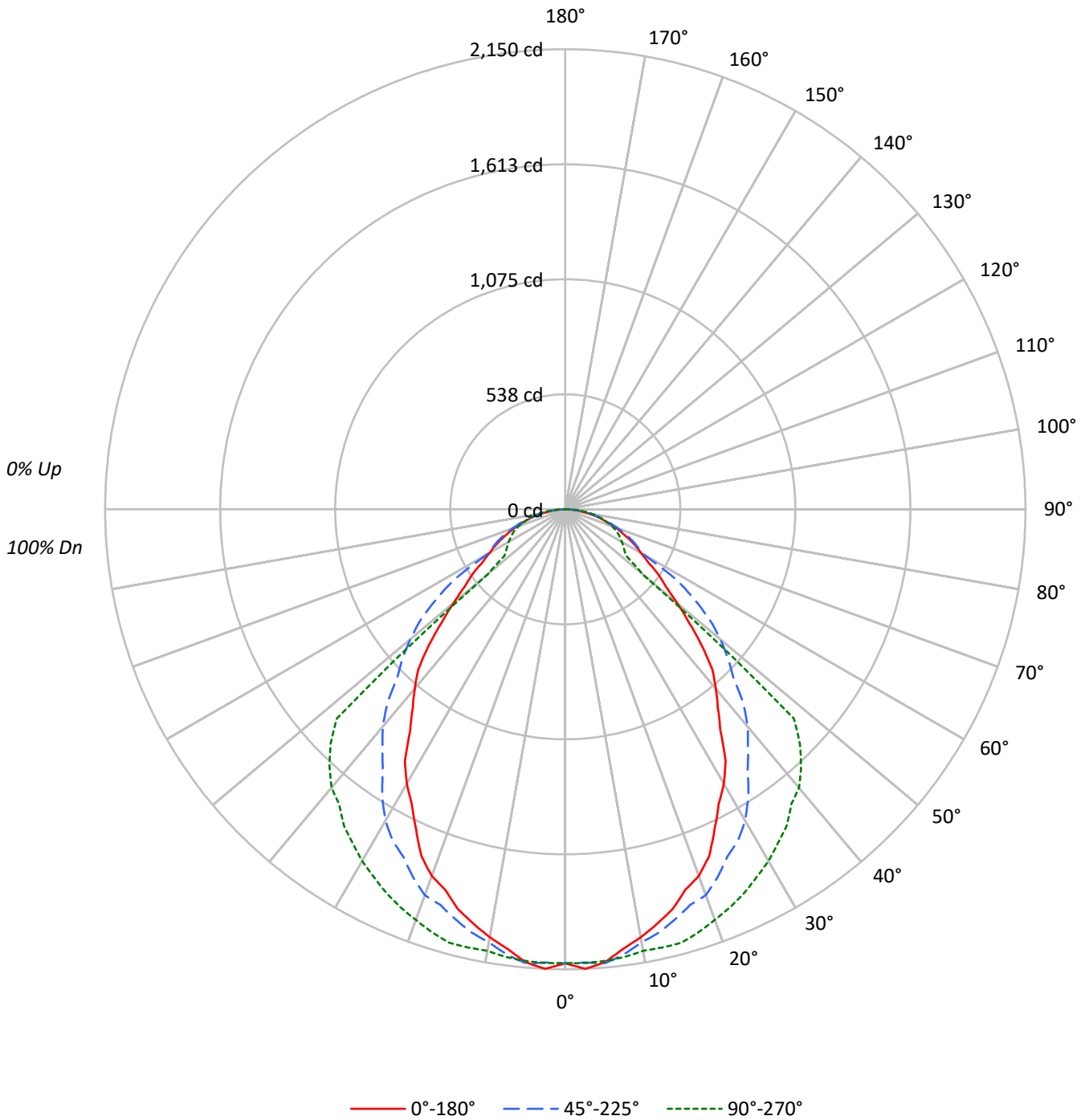
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4527.0 lumens
Efficiency: N/A
Efficacy: 129.3 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): 35
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 9.55
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				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°	15094	15094	15094
5°	15174	15213	15136
10°	14676	14849	15139
15°	14253	14613	15450
20°	13806	14528	15464
25°	12954	14060	15531
30°	12168	13806	15595
35°	10973	12911	15668
40°	10164	12317	15778
45°	9092	11163	15600
50°	7544	10458	5241
55°	6572	9179	4193
60°	5813	5982	4347
65°	5527	5818	4615
70°	5184	5500	4868
75°	4825	5182	5003
80°	4396	4884	5236
85°	3894	4155	5657

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 15600 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.2	4.4
10°-20°	566.0	12.5
20°-30°	832.7	18.4
30°-40°	952.2	21.0
40°-50°	901.7	19.9
50°-60°	496.8	11.0
60°-70°	319.0	7.0
70°-80°	196.9	4.3
80°-90°	60.6	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°	1599.9	35.3
0°-40°	2552.2	56.4
0°-60°	3950.6	87.3
0°-90°	4527.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4527.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2121	2121	2121	2121	2121	
5°	2125	2142	2130	2130	2119	199
15°	1935	1959	1984	2088	2098	543
25°	1650	1724	1791	1908	1978	760
35°	1263	1372	1486	1702	1804	799
45°	904	989	1109	1424	1550	691
55°	530	556	740	381	338	474
65°	328	339	346	308	274	325
75°	176	179	188	198	182	187
85°	48	48	51	58	69	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2121.4	2121.4	2121.4	2121.4	2121.4
2.5°	2149.5	2154.9	2120.3	2119.2	2122.4
5°	2124.6	2141.9	2130.0	2130.0	2119.2
7.5°	2071.5	2100.8	2097.5	2122.4	2110.5
10°	2031.4	2055.3	2055.3	2120.3	2095.4
12.5°	1983.8	2010.8	2026.0	2094.3	2097.5
15°	1935.0	1958.8	1983.8	2087.8	2097.5
17.5°	1864.6	1907.9	1939.3	2041.2	2072.6
20°	1823.4	1849.4	1918.8	2001.1	2042.3
22.5°	1755.2	1793.1	1860.3	1952.3	2013.0
25°	1650.1	1723.7	1790.9	1907.9	1978.3
27.5°	1552.6	1607.8	1746.5	1870.0	1937.2
30°	1481.1	1524.4	1680.4	1814.7	1898.2
32.5°	1394.4	1464.8	1591.6	1760.6	1849.4
35°	1263.3	1371.6	1486.5	1702.1	1803.9
37.5°	1171.2	1245.9	1402.0	1641.4	1735.7
40°	1094.3	1162.5	1326.1	1565.6	1698.8
42.5°	1017.3	1072.6	1230.8	1509.2	1630.6
45°	903.6	989.2	1109.4	1423.6	1550.4
47.5°	784.4	875.4	1030.3	1351.0	1448.5
50°	681.5	754.1	944.8	1206.9	473.5
52.5°	591.6	658.7	853.7	436.6	357.5
55°	529.8	555.8	740.0	381.4	338.0
57.5°	456.1	498.4	620.8	362.9	320.7
60°	408.5	426.9	420.4	344.5	305.5
62.5°	370.5	383.5	381.4	326.1	288.2
65°	328.3	339.1	345.6	307.7	274.1
67.5°	286.0	295.8	305.5	284.9	254.6
70°	249.2	255.7	264.4	257.9	234.0
72.5°	211.3	218.9	224.3	229.7	206.9
75°	175.5	178.8	188.5	198.3	182.0
77.5°	143.0	146.3	152.8	163.6	154.9
80°	107.3	110.5	119.2	127.8	127.8
82.5°	75.8	78.0	83.4	95.3	100.8
85°	47.7	47.7	50.9	58.5	69.3
87.5°	18.4	18.4	21.7	26.0	34.7
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	17.38	18.86	17.75	19.18	19.49	15.18	16.66	15.55	16.98	17.29
	3H	18.91	20.23	19.28	20.56	20.92	17.51	18.84	17.89	19.17	19.53
	4H	19.50	20.74	19.90	21.09	21.47	18.46	19.71	18.86	20.05	20.43
	6H	19.96	21.10	20.37	21.47	21.86	19.25	20.39	19.66	20.76	21.15
	8H	20.10	21.19	20.53	21.58	21.98	19.56	20.65	19.99	21.04	21.44
	12H	20.20	21.24	20.63	21.62	22.05	19.81	20.85	20.24	21.23	21.66
4H	2H	17.93	19.17	18.33	19.52	19.90	16.29	17.53	16.69	17.88	18.26
	3H	19.70	20.73	20.11	21.13	21.53	18.73	19.76	19.14	20.16	20.56
	4H	20.42	21.35	20.86	21.77	22.20	19.80	20.72	20.23	21.14	21.58
	6H	21.01	21.81	21.47	22.26	22.72	20.69	21.49	21.14	21.94	22.40
	8H	21.20	21.95	21.66	22.40	22.86	21.04	21.79	21.50	22.24	22.70
	12H	21.33	22.01	21.82	22.49	22.96	21.33	22.00	21.81	22.48	22.95
8H	4H	20.73	21.48	21.19	21.93	22.40	20.18	20.94	20.65	21.38	21.85
	6H	21.44	22.07	21.94	22.56	23.04	21.22	21.84	21.72	22.34	22.81
	8H	21.70	22.27	22.22	22.78	23.26	21.67	22.23	22.18	22.74	23.23
	12H	21.91	22.41	22.42	22.90	23.47	22.05	22.55	22.56	23.04	23.61
12H	4H	20.77	21.44	21.25	21.92	22.39	20.22	20.89	20.70	21.37	21.84
	6H	21.51	22.07	22.02	22.58	23.07	21.28	21.85	21.80	22.36	22.85
	8H	21.83	22.32	22.34	22.82	23.38	21.79	22.29	22.30	22.78	23.35