

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: P893746

Luminaire Tested: 4MB-6SL-LVR-UNV-L835

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893746
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-6SL-LVR-UNV-L835
Description: 6000 Lumen 4FT MICROBAY LINEAR BAY with LOUVER, 80CRI, 3500K CCT
Light Source: -
Ballast/Driver: -

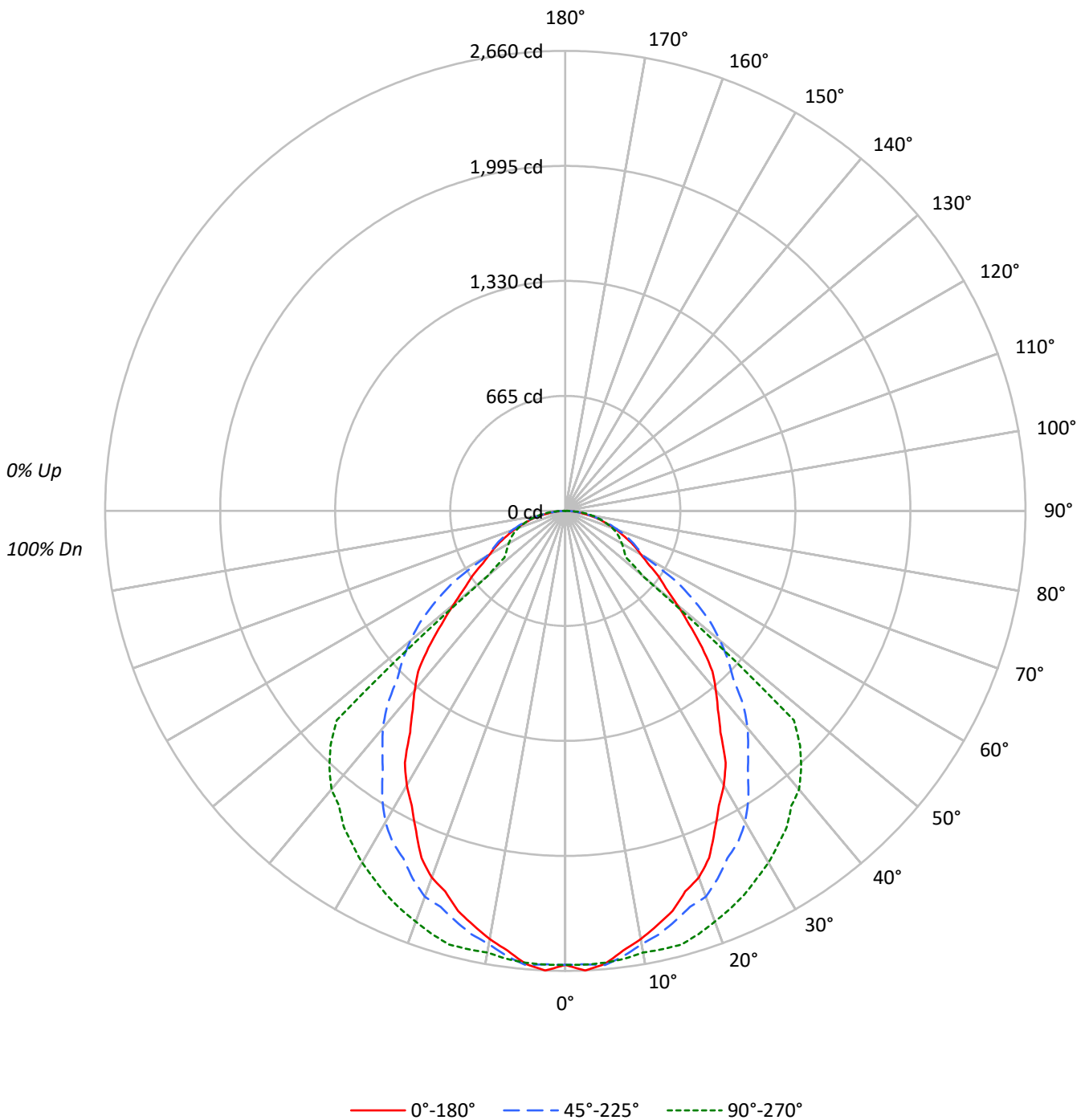
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5602.0 lumens
Efficiency: N/A
Efficacy: 126.2 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): 44.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 4
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°	18678	18678	18678
5°	18777	18825	18730
10°	18162	18375	18733
15°	17638	18082	19119
20°	17085	17978	19135
25°	16030	17398	19219
30°	15057	17084	19298
35°	13579	15978	19389
40°	12577	15242	19525
45°	11251	13814	19305
50°	9334	12941	6485
55°	8132	11359	5189
60°	7192	7402	5380
65°	6839	7201	5711
70°	6416	6805	6025
75°	5971	6413	6191
80°	5437	6044	6482
85°	4816	5143	7004

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 19305 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.0	4.4
10°-20°	700.5	12.5
20°-30°	1030.4	18.4
30°-40°	1178.4	21.0
40°-50°	1115.8	19.9
50°-60°	614.7	11.0
60°-70°	394.7	7.0
70°-80°	243.6	4.3
80°-90°	75.0	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°	1979.8	35.3
0°-40°	3158.2	56.4
0°-60°	4888.7	87.3
0°-90°	5602.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5602.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2625	2625	2625	2625	2625	
5°	2629	2651	2636	2636	2622	247
15°	2394	2424	2455	2584	2596	672
25°	2042	2133	2216	2361	2448	940
35°	1563	1697	1840	2106	2232	988
45°	1118	1224	1373	1762	1919	855
55°	656	688	916	472	418	586
65°	406	420	428	381	339	402
75°	217	221	233	245	225	231
85°	59	59	63	72	86	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2625.1	2625.1	2625.1	2625.1	2625.1
2.5°	2660.0	2666.7	2623.8	2622.4	2626.4
5°	2629.1	2650.6	2635.8	2635.8	2622.4
7.5°	2563.4	2599.6	2595.6	2626.4	2611.7
10°	2513.8	2543.3	2543.3	2623.8	2592.9
12.5°	2454.8	2488.4	2507.1	2591.6	2595.6
15°	2394.5	2424.0	2454.8	2583.5	2595.6
17.5°	2307.4	2361.0	2399.9	2525.9	2564.8
20°	2256.4	2288.6	2374.4	2476.3	2527.2
22.5°	2171.9	2218.9	2302.0	2416.0	2491.0
25°	2041.9	2133.1	2216.2	2361.0	2448.1
27.5°	1921.2	1989.6	2161.2	2314.1	2397.2
30°	1832.7	1886.4	2079.4	2245.7	2348.9
32.5°	1725.5	1812.6	1969.5	2178.7	2288.6
35°	1563.3	1697.3	1839.5	2106.3	2232.3
37.5°	1449.3	1541.8	1734.9	2031.2	2147.8
40°	1354.1	1438.6	1641.0	1937.3	2102.2
42.5°	1258.9	1327.3	1523.0	1867.6	2017.8
45°	1118.2	1224.1	1372.9	1761.7	1918.6
47.5°	970.7	1083.3	1275.0	1671.9	1792.5
50°	843.3	933.1	1169.1	1493.5	585.9
52.5°	732.0	815.2	1056.5	540.3	442.4
55°	655.6	687.8	915.7	471.9	418.3
57.5°	564.4	616.7	768.2	449.1	396.8
60°	505.4	528.2	520.2	426.3	378.1
62.5°	458.5	474.6	471.9	403.6	356.6
65°	406.2	419.6	427.7	380.8	339.2
67.5°	353.9	366.0	378.1	352.6	315.1
70°	308.4	316.4	327.1	319.1	289.6
72.5°	261.4	270.8	277.5	284.2	256.1
75°	217.2	221.2	233.3	245.3	225.2
77.5°	177.0	181.0	189.0	202.4	191.7
80°	132.7	136.8	147.5	158.2	158.2
82.5°	93.8	96.5	103.2	118.0	124.7
85°	59.0	59.0	63.0	72.4	85.8
87.5°	22.8	22.8	26.8	32.2	42.9
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	18.12	19.60	18.49	19.92	20.23	15.92	17.40	16.29	17.72	18.03
	3H	19.65	20.97	20.02	21.30	21.66	18.25	19.58	18.63	19.91	20.27
	4H	20.24	21.48	20.64	21.83	22.21	19.20	20.45	19.60	20.80	21.17
	6H	20.70	21.84	21.11	22.21	22.60	19.99	21.13	20.40	21.50	21.89
	8H	20.84	21.93	21.27	22.32	22.72	20.30	21.39	20.73	21.78	22.18
	12H	20.94	21.98	21.37	22.36	22.79	20.55	21.59	20.98	21.97	22.40
4H	2H	18.67	19.91	19.07	20.26	20.64	17.03	18.27	17.43	18.62	19.00
	3H	20.44	21.47	20.85	21.87	22.27	19.47	20.50	19.88	20.90	21.30
	4H	21.16	22.09	21.60	22.50	22.94	20.54	21.46	20.97	21.88	22.32
	6H	21.75	22.55	22.21	23.00	23.46	21.43	22.23	21.88	22.68	23.14
	8H	21.94	22.69	22.40	23.14	23.60	21.78	22.53	22.24	22.98	23.44
	12H	22.07	22.75	22.56	23.23	23.70	22.07	22.74	22.55	23.22	23.69
8H	4H	21.47	22.22	21.93	22.67	23.14	20.92	21.68	21.39	22.12	22.59
	6H	22.18	22.81	22.68	23.30	23.78	21.96	22.59	22.46	23.08	23.56
	8H	22.44	23.00	22.96	23.52	24.00	22.41	22.97	22.92	23.48	23.97
	12H	22.65	23.15	23.16	23.64	24.21	22.79	23.29	23.30	23.78	24.35
12H	4H	21.51	22.18	21.99	22.66	23.13	20.96	21.63	21.44	22.11	22.58
	6H	22.25	22.81	22.76	23.32	23.81	22.02	22.59	22.54	23.10	23.59
	8H	22.57	23.06	23.08	23.56	24.12	22.53	23.03	23.04	23.52	24.09