

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: P893747

Luminaire Tested: 4MB-6SL-LVR-UNV-L840

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893747
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-L840
Description: 6000 Lumen 4FT MICROBAY LINEAR BAY with LOUVER, 80CRI, 4000K CCT
Light Source: -
Ballast/Driver: -

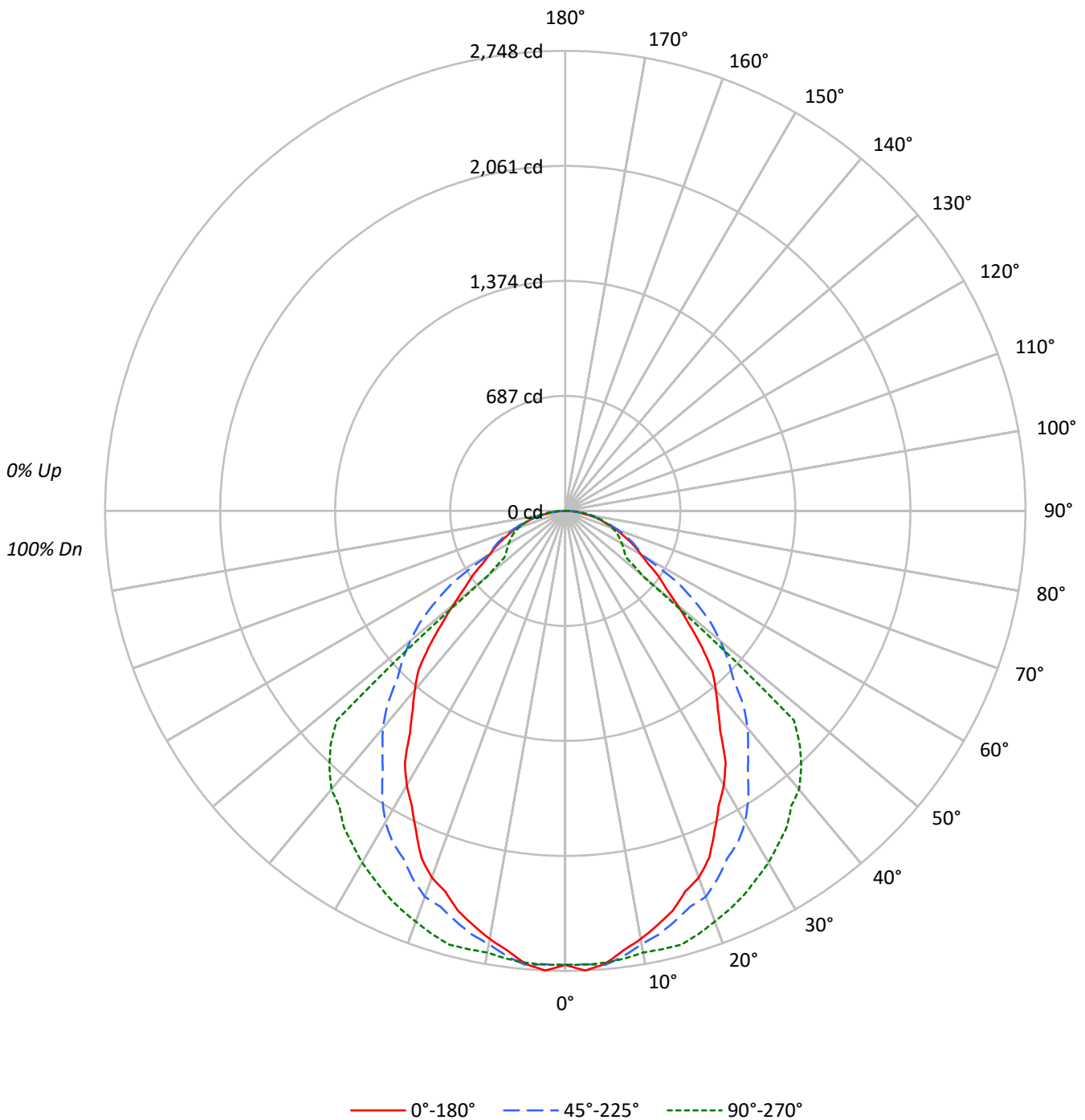
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5787.0 lumens
Efficiency: N/A
Efficacy: 130.3 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): 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				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°	19294	19294	19294
5°	19398	19447	19348
10°	18761	18982	19352
15°	18221	18679	19750
20°	17649	18572	19767
25°	16559	17973	19854
30°	15555	17648	19935
35°	14027	16505	20029
40°	12992	15745	20171
45°	11623	14270	19942
50°	9643	13368	6699
55°	8402	11734	5360
60°	7429	7647	5558
65°	7066	7438	5899
70°	6626	7029	6224
75°	6169	6625	6397
80°	5617	6240	6695
85°	4972	5314	7233

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 19942 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.2	4.4
10°-20°	723.6	12.5
20°-30°	1064.4	18.4
30°-40°	1217.3	21.0
40°-50°	1152.6	19.9
50°-60°	635.1	11.0
60°-70°	407.7	7.0
70°-80°	251.6	4.3
80°-90°	77.4	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°	2045.2	35.3
0°-40°	3262.5	56.4
0°-60°	5050.2	87.3
0°-90°	5787.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5787.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2712	2712	2712	2712	2712	
5°	2716	2738	2723	2723	2709	255
15°	2474	2504	2536	2669	2681	694
25°	2109	2204	2289	2439	2529	971
35°	1615	1753	1900	2176	2306	1021
45°	1155	1264	1418	1820	1982	883
55°	677	710	946	488	432	606
65°	420	434	442	393	350	415
75°	224	228	241	254	233	239
85°	61	61	65	75	89	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2711.8	2711.8	2711.8	2711.8	2711.8
2.5°	2747.8	2754.7	2710.4	2709.0	2713.2
5°	2716.0	2738.1	2722.9	2722.9	2709.0
7.5°	2648.1	2685.5	2681.3	2713.2	2697.9
10°	2596.8	2627.3	2627.3	2710.4	2678.6
12.5°	2535.9	2570.5	2589.9	2677.2	2681.3
15°	2473.6	2504.1	2535.9	2668.9	2681.3
17.5°	2383.6	2439.0	2479.1	2609.3	2649.5
20°	2330.9	2364.2	2452.8	2558.1	2610.7
22.5°	2243.7	2292.1	2378.0	2495.7	2573.3
25°	2109.3	2203.5	2289.4	2439.0	2529.0
27.5°	1984.7	2055.3	2232.6	2390.5	2476.4
30°	1893.3	1948.7	2148.1	2319.8	2426.5
32.5°	1782.5	1872.5	2034.5	2250.6	2364.2
35°	1614.9	1753.4	1900.2	2175.8	2306.0
37.5°	1497.2	1592.7	1792.2	2098.3	2218.7
40°	1398.8	1486.1	1695.2	2001.3	2171.7
42.5°	1300.5	1371.1	1573.3	1929.3	2084.4
45°	1155.1	1264.5	1418.2	1819.9	1981.9
47.5°	1002.7	1119.1	1317.1	1727.1	1851.7
50°	871.2	963.9	1207.7	1542.9	605.2
52.5°	756.2	842.1	1091.4	558.1	457.0
55°	677.3	710.5	945.9	487.5	432.1
57.5°	583.1	637.1	793.6	464.0	410.0
60°	522.1	545.7	537.4	440.4	390.6
62.5°	473.7	490.3	487.5	416.9	368.4
65°	419.7	433.5	441.8	393.3	350.4
67.5°	365.6	378.1	390.6	364.3	325.5
70°	318.5	326.9	337.9	329.6	299.2
72.5°	270.1	279.8	286.7	293.6	264.5
75°	224.4	228.5	241.0	253.5	232.7
77.5°	182.8	187.0	195.3	209.1	198.1
80°	137.1	141.3	152.3	163.4	163.4
82.5°	96.9	99.7	106.6	121.9	128.8
85°	60.9	60.9	65.1	74.8	88.6
87.5°	23.5	23.5	27.7	33.2	44.3
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	18.23	19.72	18.60	20.03	20.34	16.04	17.52	16.40	17.83	18.15
	3H	19.76	21.09	20.14	21.41	21.78	18.37	19.69	18.75	20.02	20.38
	4H	20.35	21.60	20.75	21.94	22.32	19.32	20.56	19.72	20.91	21.29
	6H	20.81	21.96	21.22	22.32	22.72	20.10	21.25	20.51	21.62	22.01
	8H	20.95	22.05	21.38	22.44	22.84	20.41	21.50	20.84	21.89	22.30
	12H	21.05	22.09	21.48	22.48	22.91	20.66	21.71	21.09	22.09	22.52
4H	2H	18.78	20.03	19.18	20.38	20.76	17.14	18.38	17.54	18.73	19.11
	3H	20.56	21.58	20.97	21.99	22.39	19.59	20.61	20.00	21.02	21.42
	4H	21.28	22.20	21.71	22.62	23.06	20.65	21.58	21.09	21.99	22.43
	6H	21.86	22.67	22.32	23.11	23.57	21.54	22.35	22.00	22.79	23.25
	8H	22.05	22.80	22.51	23.25	23.72	21.89	22.64	22.36	23.09	23.56
	12H	22.19	22.86	22.67	23.34	23.81	22.18	22.85	22.66	23.33	23.80
8H	4H	21.58	22.34	22.05	22.78	23.25	21.04	21.79	21.50	22.24	22.70
	6H	22.29	22.92	22.79	23.41	23.89	22.07	22.70	22.57	23.19	23.67
	8H	22.56	23.12	23.07	23.63	24.12	22.52	23.08	23.03	23.59	24.08
	12H	22.76	23.26	23.27	23.76	24.32	22.90	23.40	23.41	23.89	24.46
12H	4H	21.62	22.29	22.10	22.77	23.24	21.07	21.75	21.56	22.23	22.70
	6H	22.36	22.92	22.87	23.43	23.92	22.14	22.70	22.65	23.21	23.70
	8H	22.68	23.18	23.19	23.67	24.24	22.65	23.15	23.16	23.64	24.20