

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: P893766

Luminaire Tested: 4MB-6SL-LVRF-UNV-L935

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893766
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-6SL-LVRF-UNV-L935
Description: 6000 Lumen 4FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 90CRI, 3500K C
Light Source: -
Ballast/Driver: -

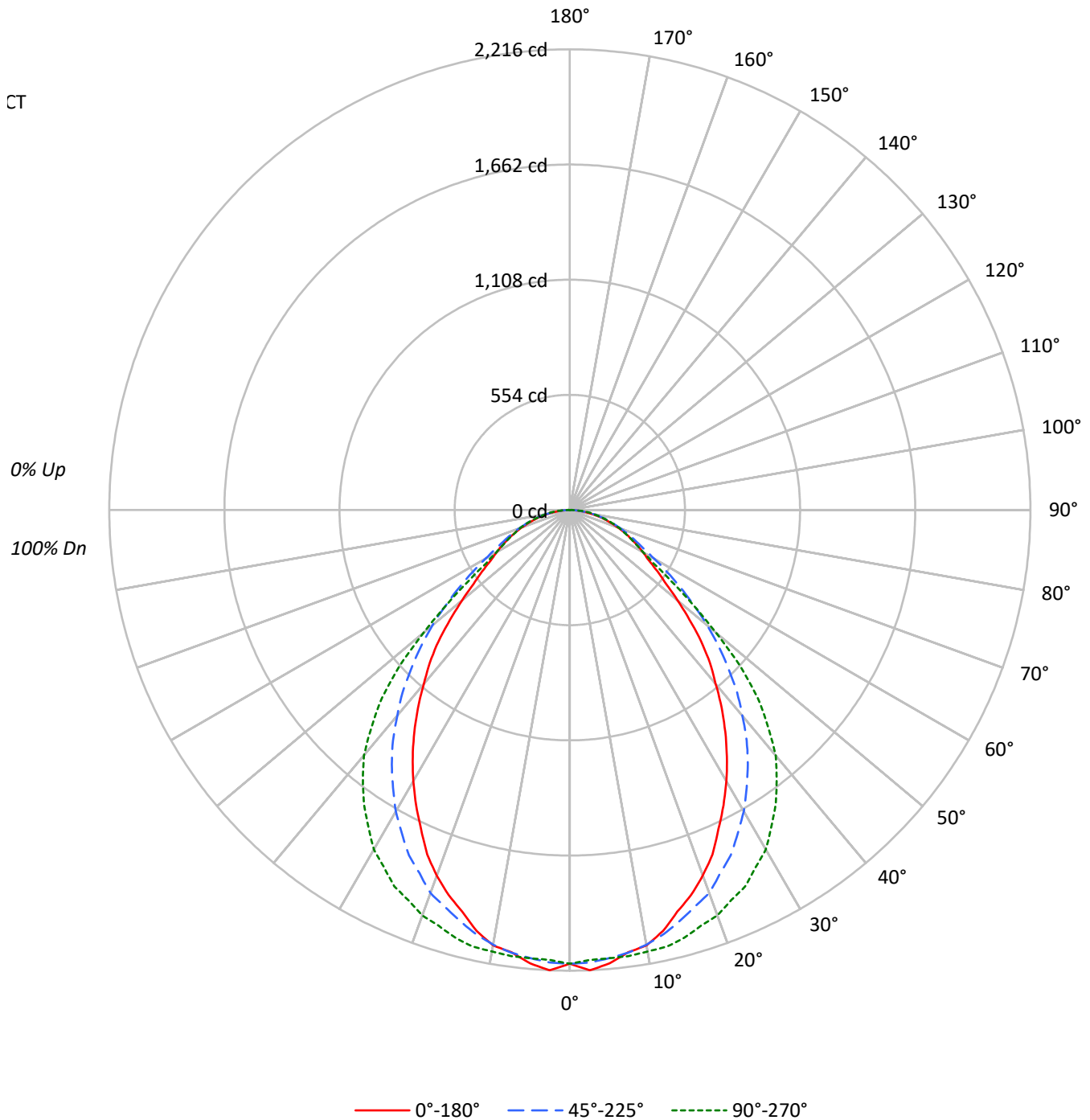
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4535.0 lumens
Efficiency: N/A
Efficacy: 102.1 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): 44.4
Input Voltage (V): 120
Input Current (Ain): 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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	100	
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87	87	
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	75	75	
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	71	67	65	65	
4	87	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59	57	57	
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	56	52	50	50	
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	45	45	
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40	40	
8	65	52	44	39	63	52	44	39	50	44	39	49	43	38	48	42	38	36	36	
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	33	33	
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30	30	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15525	15525	15525
5°	15633	15455	15455
10°	15363	15338	15576
15°	14727	15070	15688
20°	14167	14846	15714
25°	13291	14386	15678
30°	12371	13751	15494
35°	11325	12971	15000
40°	10139	11994	14312
45°	8997	10858	12867
50°	7486	9558	10148
55°	6376	8052	7376
60°	5780	6653	5829
65°	5445	5827	5426
70°	5122	5405	5288
75°	4772	5146	5053
80°	4372	4741	4880
85°	3796	4172	5461

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 12867 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.6	4.6
10°-20°	581.3	12.8
20°-30°	844.2	18.6
30°-40°	940.1	20.7
40°-50°	830.5	18.3
50°-60°	545.0	12.0
60°-70°	333.7	7.4
70°-80°	194.2	4.3
80°-90°	59.5	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°	1632.1	36.0
0°-40°	2572.1	56.7
0°-60°	3947.6	87.0
0°-90°	4535.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4535.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2182	2182	2182	2182	2182	
5°	2189	2190	2164	2185	2164	206
15°	1999	2022	2046	2126	2130	564
25°	1693	1734	1832	1949	1997	779
35°	1304	1374	1493	1651	1727	813
45°	894	949	1079	1224	1279	684
55°	514	550	649	643	595	466
65°	323	329	346	336	322	322
75°	174	176	187	191	184	184
85°	46	49	51	58	67	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2182.0	2182.0	2182.0	2182.0	2182.0
2.5°	2216.1	2188.8	2178.6	2188.8	2166.1
5°	2188.8	2190.0	2163.9	2185.4	2163.9
7.5°	2145.7	2160.5	2148.0	2180.9	2163.9
10°	2126.4	2127.6	2123.0	2157.1	2155.9
12.5°	2073.1	2076.5	2089.0	2140.1	2151.4
15°	1999.3	2022.0	2045.9	2126.4	2129.8
17.5°	1941.5	1968.7	2000.5	2086.7	2096.9
20°	1871.1	1882.5	1960.8	2036.8	2075.4
22.5°	1792.8	1814.4	1890.4	1992.5	2031.1
25°	1693.0	1733.8	1832.5	1949.4	1997.1
27.5°	1601.1	1648.7	1750.8	1881.3	1936.9
30°	1505.8	1560.2	1673.7	1801.9	1885.9
32.5°	1407.0	1475.1	1582.9	1730.4	1804.2
35°	1303.8	1374.1	1493.3	1651.0	1727.0
37.5°	1200.5	1268.6	1398.0	1567.0	1635.1
40°	1091.6	1158.5	1291.3	1462.6	1540.9
42.5°	997.4	1055.3	1191.4	1337.8	1410.4
45°	894.1	948.6	1079.1	1224.3	1278.8
47.5°	780.7	844.2	971.3	1090.4	1112.0
50°	676.3	742.1	863.5	932.7	916.8
52.5°	584.4	640.0	751.2	780.7	743.2
55°	514.0	550.3	649.1	643.4	594.6
57.5°	449.3	472.0	556.0	524.2	477.7
60°	406.2	416.4	467.5	438.0	409.6
62.5°	365.4	369.9	397.1	381.3	359.7
65°	323.4	329.1	346.1	335.9	322.3
67.5°	284.8	287.1	303.0	300.7	283.7
70°	246.2	249.6	259.8	264.4	254.2
72.5°	208.8	212.2	222.4	226.9	217.9
75°	173.6	175.9	187.2	190.6	183.8
77.5°	139.6	144.1	150.9	156.6	148.6
80°	106.7	108.9	115.7	122.5	119.1
82.5°	74.9	78.3	82.8	91.9	94.2
85°	46.5	48.8	51.1	57.9	66.9
87.5°	18.2	19.3	22.7	25.0	32.9
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	17.06	18.54	17.42	18.85	19.17	17.71	19.19	18.07	19.50	19.82
	3H	18.66	19.98	19.04	20.31	20.67	19.15	20.47	19.52	20.80	21.16
	4H	19.28	20.52	19.68	20.87	21.25	19.75	20.99	20.15	21.34	21.72
	6H	19.75	20.89	20.16	21.26	21.65	20.24	21.38	20.65	21.75	22.14
	8H	19.90	20.99	20.33	21.38	21.78	20.43	21.53	20.86	21.92	22.32
	12H	20.00	21.04	20.43	21.42	21.85	20.60	21.65	21.03	22.03	22.46
4H	2H	17.68	18.92	18.08	19.27	19.65	18.20	19.45	18.60	19.79	20.17
	3H	19.50	20.53	19.91	20.93	21.33	19.90	20.93	20.31	21.33	21.73
	4H	20.24	21.16	20.67	21.58	22.02	20.65	21.58	21.09	22.00	22.44
	6H	20.84	21.64	21.29	22.08	22.55	21.29	22.09	21.75	22.54	23.00
	8H	21.03	21.79	21.50	22.23	22.70	21.54	22.30	22.01	22.74	23.21
	12H	21.18	21.85	21.66	22.33	22.80	21.77	22.44	22.25	22.92	23.39
8H	4H	20.56	21.31	21.02	21.75	22.22	20.92	21.68	21.39	22.12	22.59
	6H	21.28	21.90	21.78	22.40	22.87	21.70	22.32	22.20	22.81	23.29
	8H	21.55	22.11	22.07	22.62	23.11	22.04	22.60	22.56	23.11	23.60
	12H	21.77	22.27	22.28	22.76	23.33	22.36	22.86	22.87	23.35	23.92
12H	4H	20.59	21.26	21.07	21.74	22.21	20.94	21.62	21.43	22.09	22.57
	6H	21.35	21.91	21.86	22.42	22.91	21.74	22.31	22.26	22.82	23.30
	8H	21.68	22.18	22.19	22.67	23.23	22.15	22.65	22.66	23.14	23.70