

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: P893767

Luminaire Tested: 4MB-6SL-LVRF-UNV-L940

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893767
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-L940
Description: 6000 Lumen 4FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 90CRI, 4000K C
Light Source: -
Ballast/Driver: -

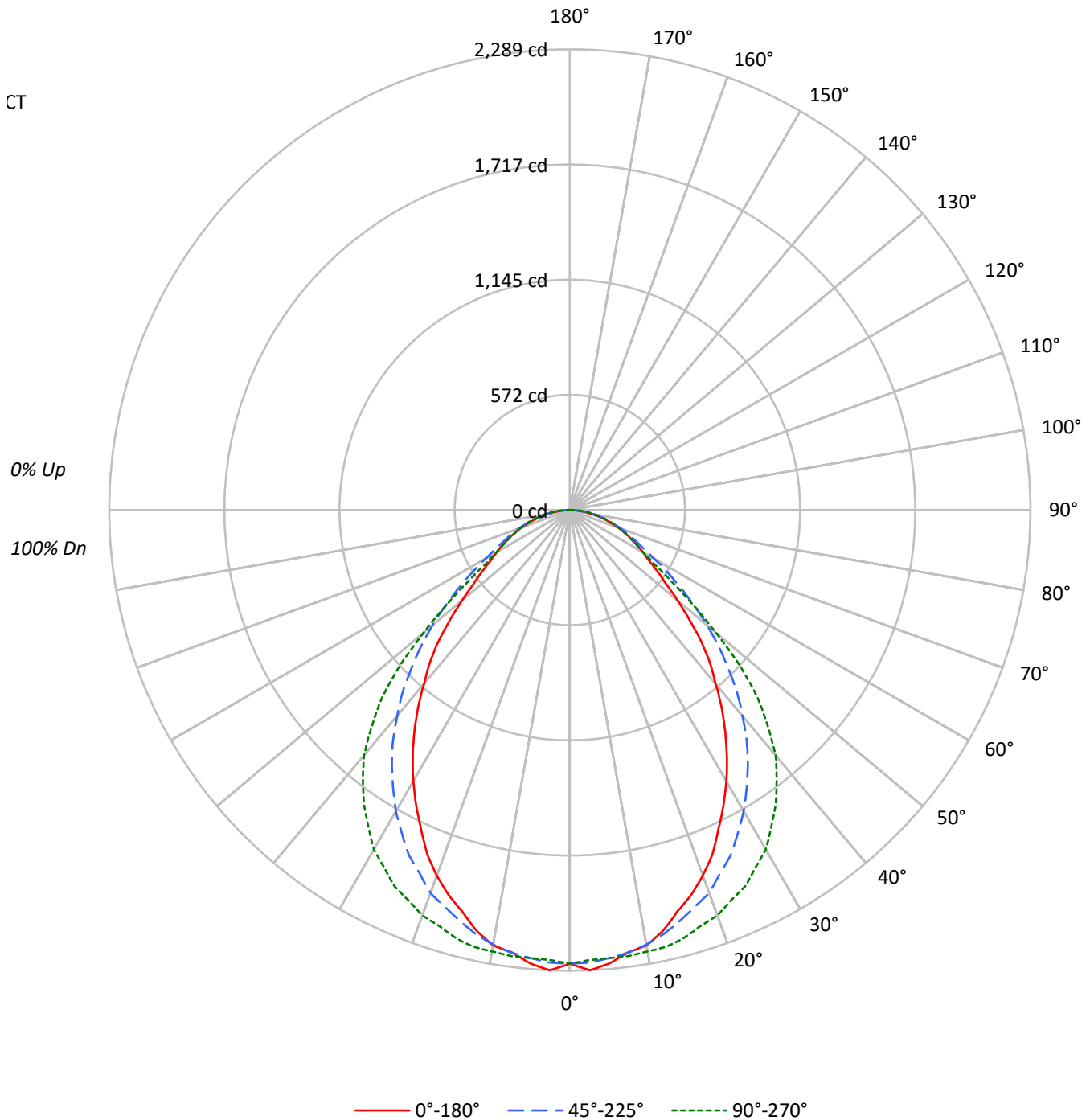
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4684.0 lumens
Efficiency: N/A
Efficacy: 105.5 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 (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	70	80	74	69	77	72	68	75	71	67	67	67	67	65
4	87	76	68	62	84	74	67	61	72	66	60	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	56	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	44	39	49	43	38	48	42	38	38	38	38	36
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16035	16035	16035
5°	16147	15963	15963
10°	15868	15842	16088
15°	15211	15565	16204
20°	14633	15334	16231
25°	13727	14859	16193
30°	12777	14202	16003
35°	11696	13396	15494
40°	10471	12387	14783
45°	9292	11215	13290
50°	7732	9872	10482
55°	6586	8316	7618
60°	5971	6872	6021
65°	5623	6019	5603
70°	5290	5583	5461
75°	4929	5317	5220
80°	4515	4896	5044
85°	3927	4302	5641

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 13290 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.4	4.6
10°-20°	600.4	12.8
20°-30°	871.9	18.6
30°-40°	970.9	20.7
40°-50°	857.8	18.3
50°-60°	562.9	12.0
60°-70°	344.7	7.4
70°-80°	200.6	4.3
80°-90°	61.4	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°	1685.7	36.0
0°-40°	2656.7	56.7
0°-60°	4077.3	87.0
0°-90°	4684.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4684.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2254	2254	2254	2254	2254	
5°	2261	2262	2235	2257	2235	213
15°	2065	2088	2113	2196	2200	583
25°	1749	1791	1893	2014	2063	805
35°	1347	1419	1542	1705	1784	840
45°	924	980	1115	1265	1321	707
55°	531	568	670	664	614	482
65°	334	340	358	347	333	332
75°	179	182	193	197	190	190
85°	48	50	53	60	69	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2253.7	2253.7	2253.7	2253.7	2253.7
2.5°	2288.9	2260.8	2250.2	2260.8	2237.3
5°	2260.8	2261.9	2235.0	2257.2	2235.0
7.5°	2216.2	2231.5	2218.6	2252.6	2235.0
10°	2196.3	2197.5	2192.8	2227.9	2226.8
12.5°	2141.2	2144.7	2157.6	2210.4	2222.1
15°	2065.0	2088.5	2113.1	2196.3	2199.8
17.5°	2005.3	2033.4	2066.2	2155.3	2165.8
20°	1932.6	1944.3	2025.2	2103.7	2143.6
22.5°	1851.7	1874.0	1952.5	2058.0	2097.9
25°	1748.6	1790.8	1892.8	2013.5	2062.7
27.5°	1653.7	1702.9	1808.4	1943.2	2000.6
30°	1555.2	1611.5	1728.7	1861.1	1947.8
32.5°	1453.3	1523.6	1634.9	1787.3	1863.5
35°	1346.6	1419.3	1542.3	1705.2	1783.8
37.5°	1240.0	1310.3	1443.9	1618.5	1688.8
40°	1127.4	1196.6	1333.7	1510.7	1591.6
42.5°	1030.2	1089.9	1230.6	1381.8	1456.8
45°	923.5	979.8	1114.6	1264.6	1320.8
47.5°	806.3	872.0	1003.2	1126.3	1148.5
50°	698.5	766.5	891.9	963.4	947.0
52.5°	603.6	661.0	775.9	806.3	767.6
55°	530.9	568.4	670.4	664.5	614.1
57.5°	464.1	487.5	574.3	541.5	493.4
60°	419.6	430.1	482.9	452.4	423.1
62.5°	377.4	382.1	410.2	393.8	371.5
65°	334.0	339.9	357.5	346.9	332.8
67.5°	294.2	296.5	312.9	310.6	293.0
70°	254.3	257.8	268.4	273.1	262.5
72.5°	215.6	219.2	229.7	234.4	225.0
75°	179.3	181.7	193.4	196.9	189.9
77.5°	144.2	148.8	155.9	161.7	153.5
80°	110.2	112.5	119.5	126.6	123.1
82.5°	77.4	80.9	85.6	94.9	97.3
85°	48.1	50.4	52.7	59.8	69.1
87.5°	18.8	19.9	23.4	25.8	34.0
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	17.17	18.65	17.53	18.96	19.28	17.82	19.30	18.19	19.62	19.93
	3H	18.77	20.10	19.15	20.42	20.79	19.26	20.58	19.64	20.91	21.27
	4H	19.39	20.63	19.79	20.98	21.36	19.86	21.11	20.26	21.45	21.83
	6H	19.86	21.01	20.27	21.37	21.77	20.35	21.50	20.76	21.86	22.26
	8H	20.01	21.10	20.44	21.49	21.89	20.55	21.64	20.97	22.03	22.43
	12H	20.11	21.16	20.54	21.54	21.97	20.71	21.76	21.15	22.14	22.57
4H	2H	17.79	19.03	18.19	19.38	19.76	18.32	19.56	18.72	19.91	20.29
	3H	19.61	20.64	20.02	21.04	21.44	20.01	21.04	20.42	21.44	21.84
	4H	20.35	21.28	20.78	21.69	22.13	20.77	21.69	21.20	22.11	22.55
	6H	20.95	21.75	21.41	22.20	22.66	21.40	22.21	21.86	22.65	23.11
	8H	21.15	21.90	21.61	22.34	22.81	21.66	22.41	22.12	22.85	23.32
	12H	21.29	21.96	21.77	22.44	22.91	21.88	22.55	22.36	23.03	23.50
8H	4H	20.67	21.42	21.13	21.87	22.33	21.04	21.79	21.50	22.23	22.70
	6H	21.39	22.02	21.89	22.51	22.99	21.81	22.43	22.31	22.93	23.40
	8H	21.67	22.23	22.18	22.74	23.23	22.16	22.72	22.67	23.23	23.72
	12H	21.88	22.38	22.40	22.87	23.44	22.47	22.97	22.98	23.46	24.03
12H	4H	20.70	21.38	21.19	21.86	22.33	21.06	21.73	21.54	22.21	22.68
	6H	21.46	22.02	21.97	22.53	23.02	21.86	22.42	22.37	22.93	23.42
	8H	21.79	22.29	22.30	22.78	23.35	22.26	22.76	22.77	23.25	23.82