

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: P894262

Luminaire Tested: 4MB-SC3-LVRF-UNV-CC83-HI-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894262
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-SC3-LVRF-UNV-CC83-HI-4000K
Description: Selectable 4FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 80CRI, 4000K CCT
lumen setting
Light Source: -
Ballast/Driver: -

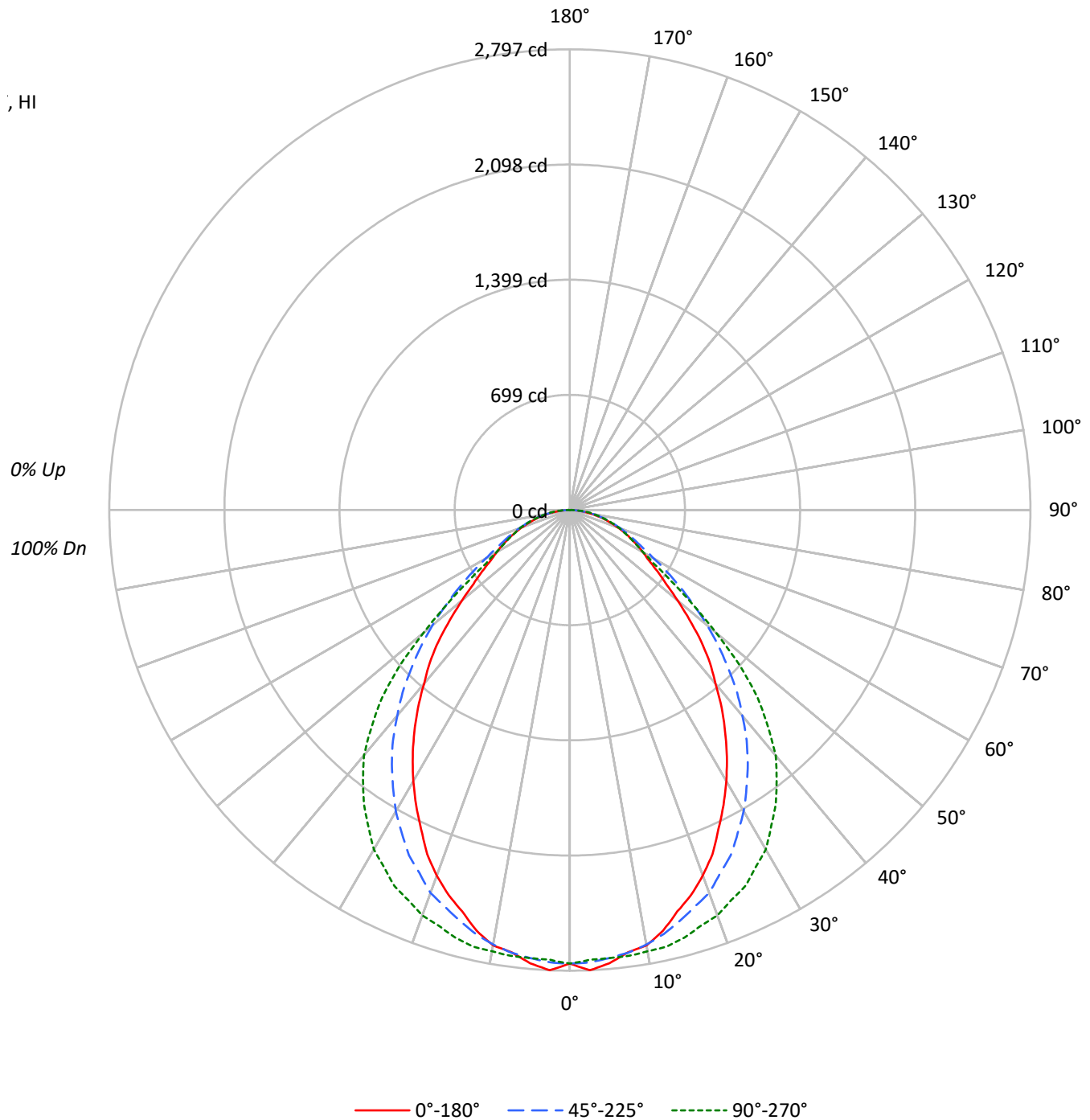
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5723.0 lumens
Efficiency: N/A
Efficacy: 112.9 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): 50.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 5.39961257980444
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°	19592	19592	19592
5°	19728	19503	19503
10°	19388	19357	19656
15°	18585	19018	19798
20°	17879	18735	19830
25°	16773	18155	19785
30°	15611	17352	19553
35°	14291	16368	18930
40°	12794	15136	18061
45°	11354	13703	16238
50°	9446	12062	12807
55°	8047	10161	9307
60°	7294	8396	7355
65°	6871	7352	6847
70°	6463	6821	6674
75°	6023	6496	6378
80°	5515	5986	6162
85°	4792	5257	6898

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 16238 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.7	4.6
10°-20°	733.6	12.8
20°-30°	1065.3	18.6
30°-40°	1186.3	20.7
40°-50°	1048.1	18.3
50°-60°	687.7	12.0
60°-70°	421.1	7.4
70°-80°	245.1	4.3
80°-90°	75.1	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°	2059.6	36.0
0°-40°	3245.9	56.7
0°-60°	4981.8	87.0
0°-90°	5723.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5723.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2754	2754	2754	2754	2754	
5°	2762	2764	2731	2758	2731	260
15°	2523	2552	2582	2684	2688	712
25°	2136	2188	2313	2460	2520	983
35°	1645	1734	1884	2084	2179	1026
45°	1128	1197	1362	1545	1614	863
55°	649	694	819	812	750	588
65°	408	415	437	424	407	406
75°	219	222	236	241	232	232
85°	59	62	64	73	84	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2753.6	2753.6	2753.6	2753.6	2753.6
2.5°	2796.6	2762.2	2749.3	2762.2	2733.6
5°	2762.2	2763.7	2730.7	2757.9	2730.7
7.5°	2707.8	2726.4	2710.7	2752.2	2730.7
10°	2683.5	2684.9	2679.2	2722.1	2720.7
12.5°	2616.2	2620.5	2636.2	2700.7	2715.0
15°	2523.1	2551.7	2581.8	2683.5	2687.8
17.5°	2450.1	2484.4	2524.5	2633.4	2646.2
20°	2361.3	2375.6	2474.4	2570.4	2619.0
22.5°	2262.5	2289.7	2385.6	2514.5	2563.2
25°	2136.5	2188.0	2312.6	2460.1	2520.2
27.5°	2020.5	2080.6	2209.5	2374.2	2444.3
30°	1900.2	1968.9	2112.1	2273.9	2379.9
32.5°	1775.6	1861.5	1997.6	2183.7	2276.8
35°	1645.3	1734.1	1884.4	2083.5	2179.4
37.5°	1515.0	1600.9	1764.2	1977.5	2063.4
40°	1377.5	1462.0	1629.6	1845.8	1944.6
42.5°	1258.7	1331.7	1503.6	1688.3	1779.9
45°	1128.4	1197.1	1361.8	1545.1	1613.8
47.5°	985.2	1065.4	1225.8	1376.1	1403.3
50°	853.4	936.5	1089.7	1177.1	1157.0
52.5°	737.5	807.6	948.0	985.2	937.9
55°	648.7	694.5	819.1	811.9	750.3
57.5°	567.1	595.7	701.7	661.6	602.9
60°	512.6	525.5	590.0	552.7	516.9
62.5°	461.1	466.8	501.2	481.1	453.9
65°	408.1	415.3	436.7	423.9	406.7
67.5°	359.4	362.3	382.3	379.5	358.0
70°	310.7	315.0	327.9	333.6	320.8
72.5°	263.5	267.8	280.7	286.4	274.9
75°	219.1	222.0	236.3	240.6	232.0
77.5°	176.1	181.9	190.4	197.6	187.6
80°	134.6	137.5	146.1	154.7	150.4
82.5°	94.5	98.8	104.5	116.0	118.9
85°	58.7	61.6	64.4	73.0	84.5
87.5°	22.9	24.3	28.6	31.5	41.5
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	17.87	19.35	18.23	19.66	19.98	18.52	20.00	18.88	20.31	20.63
	3H	19.47	20.79	19.85	21.12	21.48	19.95	21.28	20.33	21.61	21.97
	4H	20.08	21.33	20.48	21.68	22.05	20.56	21.80	20.96	22.15	22.53
	6H	20.55	21.70	20.97	22.07	22.46	21.05	22.19	21.46	22.56	22.95
	8H	20.71	21.80	21.13	22.19	22.59	21.24	22.33	21.67	22.72	23.13
	12H	20.81	21.85	21.24	22.23	22.66	21.41	22.46	21.84	22.84	23.27
4H	2H	18.49	19.73	18.89	20.08	20.46	19.01	20.25	19.41	20.60	20.98
	3H	20.31	21.34	20.72	21.74	22.14	20.71	21.74	21.12	22.14	22.54
	4H	21.05	21.97	21.48	22.39	22.83	21.46	22.39	21.90	22.80	23.24
	6H	21.65	22.45	22.10	22.89	23.35	22.10	22.90	22.56	23.35	23.81
	8H	21.84	22.59	22.31	23.04	23.51	22.35	23.11	22.82	23.55	24.02
	12H	21.98	22.66	22.47	23.13	23.61	22.58	23.25	23.06	23.73	24.20
8H	4H	21.37	22.12	21.83	22.56	23.03	21.73	22.49	22.20	22.93	23.40
	6H	22.09	22.71	22.59	23.20	23.68	22.51	23.13	23.01	23.62	24.10
	8H	22.36	22.92	22.88	23.43	23.92	22.85	23.41	23.37	23.92	24.41
	12H	22.58	23.08	23.09	23.57	24.14	23.17	23.67	23.68	24.16	24.73
12H	4H	21.40	22.07	21.88	22.55	23.02	21.75	22.42	22.24	22.90	23.38
	6H	22.15	22.72	22.67	23.23	23.71	22.55	23.11	23.07	23.63	24.11
	8H	22.49	22.98	23.00	23.48	24.04	22.96	23.46	23.47	23.95	24.51