

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: P894226

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894226
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-SC3-LVR-UNV-CC83-HI-4000K
Description: Selectable 4FT MICROBAY LINEAR BAY with LOUVER, 80CRI, 4000K CCT, HI lumen setting
Light Source: -
Ballast/Driver: -

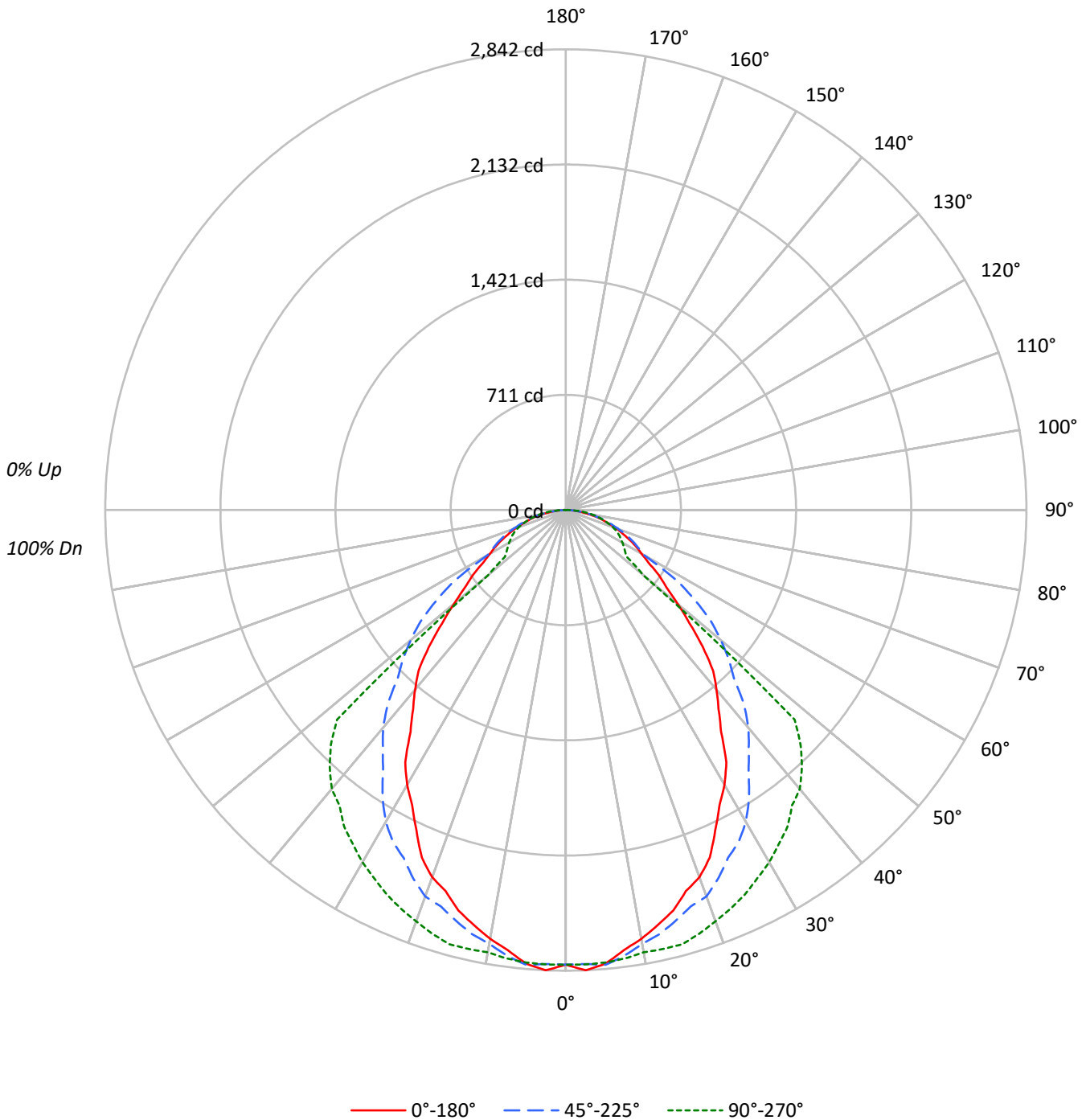
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5985.0 lumens
Efficiency: N/A
Efficacy: 118.0 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): 50.7
Input Voltage (V): 120
Input Current (A_{in}): 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	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°	19955	19955	19955
5°	20062	20112	20010
10°	19404	19631	20014
15°	18844	19319	20427
20°	18253	19207	20443
25°	17126	18588	20533
30°	16087	18252	20617
35°	14506	17069	20715
40°	13437	16284	20861
45°	12020	14758	20624
50°	9973	13825	6928
55°	8688	12135	5544
60°	7684	7909	5747
65°	7307	7692	6101
70°	6852	7271	6436
75°	6378	6851	6614
80°	5810	6457	6925
85°	5143	5494	7486

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 20624 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.0	4.4
10°-20°	748.4	12.5
20°-30°	1100.8	18.4
30°-40°	1258.9	21.0
40°-50°	1192.1	19.9
50°-60°	656.8	11.0
60°-70°	421.7	7.0
70°-80°	260.2	4.3
80°-90°	80.1	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°	2115.2	35.3
0°-40°	3374.1	56.4
0°-60°	5223.0	87.3
0°-90°	5985.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5985.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2805	2805	2805	2805	2805	
5°	2809	2832	2816	2816	2802	263
15°	2558	2590	2623	2760	2773	718
25°	2182	2279	2368	2522	2616	1005
35°	1670	1813	1965	2250	2385	1056
45°	1195	1308	1467	1882	2050	914
55°	700	735	978	504	447	626
65°	434	448	457	407	362	430
75°	232	236	249	262	241	247
85°	63	63	67	77	92	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2804.6	2804.6	2804.6	2804.6	2804.6
2.5°	2841.8	2849.0	2803.1	2801.7	2806.0
5°	2808.9	2831.8	2816.0	2816.0	2801.7
7.5°	2738.7	2777.4	2773.1	2806.0	2790.3
10°	2685.7	2717.2	2717.2	2803.1	2770.2
12.5°	2622.7	2658.5	2678.5	2768.8	2773.1
15°	2558.2	2589.7	2622.7	2760.2	2773.1
17.5°	2465.1	2522.4	2563.9	2698.6	2740.1
20°	2410.7	2445.1	2536.7	2645.6	2700.0
22.5°	2320.4	2370.6	2459.4	2581.1	2661.3
25°	2181.5	2278.9	2367.7	2522.4	2615.5
27.5°	2052.6	2125.6	2309.0	2472.3	2561.1
30°	1958.1	2015.3	2221.6	2399.2	2509.5
32.5°	1843.5	1936.6	2104.2	2327.6	2445.1
35°	1670.1	1813.4	1965.2	2250.3	2384.9
37.5°	1548.4	1647.2	1853.5	2170.0	2294.7
40°	1446.7	1536.9	1753.2	2069.8	2246.0
42.5°	1345.0	1418.0	1627.2	1995.3	2155.7
45°	1194.6	1307.8	1466.7	1882.1	2049.7
47.5°	1037.0	1157.4	1362.2	1786.2	1915.1
50°	901.0	996.9	1249.0	1595.7	625.9
52.5°	782.1	870.9	1128.7	577.2	472.7
55°	700.4	734.8	978.3	504.2	446.9
57.5°	603.0	658.9	820.7	479.8	424.0
60°	540.0	564.4	555.8	455.5	403.9
62.5°	489.9	507.1	504.2	431.1	381.0
65°	434.0	448.3	456.9	406.8	362.4
67.5°	378.1	391.0	403.9	376.7	336.6
70°	329.4	338.0	349.5	340.9	309.4
72.5°	279.3	289.3	296.5	303.7	273.6
75°	232.0	236.3	249.2	262.1	240.6
77.5°	189.1	193.4	202.0	216.3	204.8
80°	141.8	146.1	157.6	169.0	169.0
82.5°	100.3	103.1	110.3	126.0	133.2
85°	63.0	63.0	67.3	77.3	91.7
87.5°	24.4	24.4	28.6	34.4	45.8
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	18.35	19.83	18.72	20.15	20.46	16.15	17.63	16.52	17.95	18.26
	3H	19.88	21.20	20.25	21.53	21.89	18.48	19.81	18.86	20.14	20.50
	4H	20.47	21.71	20.87	22.06	22.44	19.43	20.68	19.83	21.02	21.40
	6H	20.93	22.07	21.34	22.44	22.83	20.22	21.36	20.63	21.73	22.12
	8H	21.07	22.16	21.50	22.55	22.95	20.53	21.62	20.96	22.01	22.41
	12H	21.17	22.21	21.60	22.59	23.02	20.78	21.82	21.21	22.20	22.63
4H	2H	18.90	20.14	19.30	20.49	20.87	17.26	18.50	17.66	18.85	19.23
	3H	20.67	21.70	21.08	22.10	22.50	19.70	20.73	20.11	21.13	21.53
	4H	21.39	22.32	21.83	22.73	23.17	20.77	21.69	21.20	22.11	22.55
	6H	21.98	22.78	22.44	23.23	23.69	21.66	22.46	22.11	22.91	23.37
	8H	22.17	22.92	22.63	23.36	23.83	22.01	22.76	22.47	23.21	23.67
	12H	22.30	22.98	22.79	23.46	23.93	22.30	22.97	22.78	23.45	23.92
8H	4H	21.70	22.45	22.16	22.90	23.37	21.15	21.91	21.62	22.35	22.82
	6H	22.41	23.04	22.91	23.53	24.01	22.19	22.82	22.69	23.31	23.79
	8H	22.67	23.23	23.19	23.75	24.23	22.64	23.20	23.15	23.71	24.20
	12H	22.88	23.38	23.39	23.87	24.44	23.02	23.52	23.53	24.01	24.58
12H	4H	21.74	22.41	22.22	22.89	23.36	21.19	21.86	21.67	22.34	22.81
	6H	22.48	23.04	22.99	23.55	24.04	22.25	22.82	22.77	23.33	23.82
	8H	22.80	23.29	23.31	23.79	24.35	22.76	23.26	23.27	23.75	24.32