

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: P894244

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894244
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-26)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4MB-SC3-LVRA-UNV-CC83-HI-4000K
Description: Selectable 4FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 80CRI, 4000K CCT, HI lumen setting
Light Source: -
Ballast/Driver: -

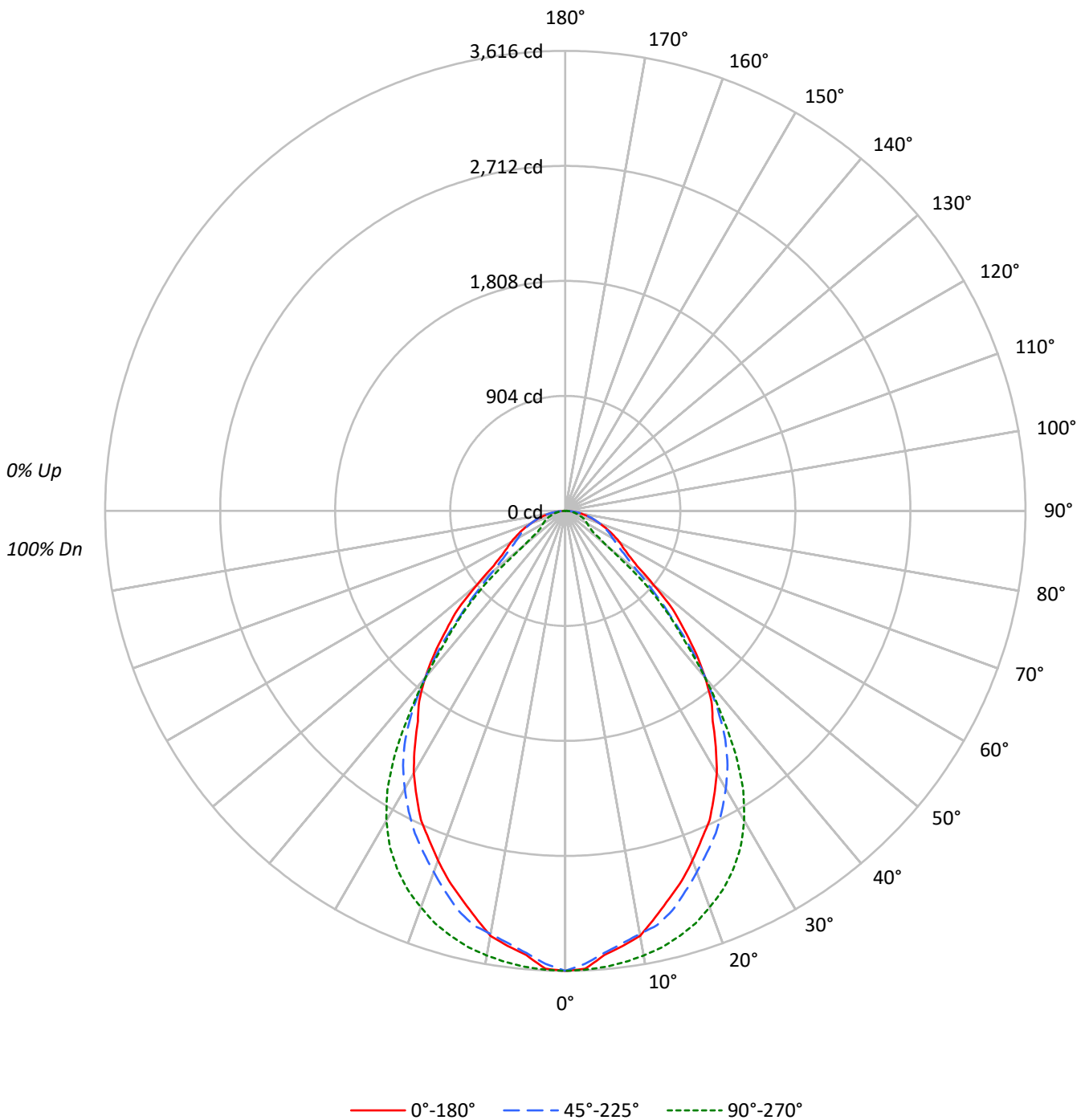
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5868.0 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.16 / 1.12
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

TEST NUMBER: P894244
CATALOG NUMBER: 4MB-SC3-LVRA-UNV-CC83-HI-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P894244

CATALOG NUMBER: 4MB-SC3-LVRA-UNV-CC83-HI-4000K

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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	90	90	90	88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	80	80	80	78
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	71	71	71	69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	63	63	63	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	57	57	57	55
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	52	52	52	50
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	47	47	47	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	43	43	43	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	40	40	40	38
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	37	37	37	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25725	25725	25725
5°	25031	24918	25697
10°	24499	24392	25637
15°	23235	23949	25493
20°	22133	22881	25104
25°	21054	21954	24463
30°	19561	20724	23098
35°	17539	19045	20259
40°	15891	15925	15839
45°	13286	11768	11477
50°	10036	8283	4693
55°	7548	6624	2960
60°	7015	6100	2850
65°	6527	6088	2855
70°	5970	5970	2810
75°	5660	5814	2716
80°	5232	5499	2786
85°	4563	4792	3045

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 13596 cd/sqm



TEST NUMBER: P894244
 CATALOG NUMBER: 4MB-SC3-LVRA-UNV-CC83-HI-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.0	5.7
10°-20°	920.3	15.7
20°-30°	1304.9	22.2
30°-40°	1344.4	22.9
40°-50°	939.0	16.0
50°-60°	450.6	7.7
60°-70°	316.1	5.4
70°-80°	197.6	3.4
80°-90°	61.1	1.0
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°	2559.2	43.6
0°-40°	3903.5	66.5
0°-60°	5293.1	90.2
0°-90°	5868.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5868.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3616	3616	3616	3616	3616	
5°	3505	3500	3489	3580	3598	332
15°	3154	3178	3251	3344	3461	888
25°	2682	2709	2796	2986	3116	1226
35°	2019	2074	2193	2238	2332	1272
45°	1320	1351	1170	1110	1141	1017
55°	608	579	534	342	239	570
65°	388	362	362	275	170	384
75°	206	203	212	183	99	217
85°	56	56	59	58	37	62
90°	0	0	0	0	0	



TEST NUMBER: P894244

CATALOG NUMBER: 4MB-SC3-LVRA-UNV-CC83-HI-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3615.6	3615.6	3615.6	3615.6	3615.6
2.5°	3601.6	3590.5	3563.4	3612.8	3609.1
5°	3504.7	3500.1	3488.9	3580.2	3597.9
7.5°	3449.7	3440.4	3427.4	3528.0	3577.4
10°	3391.0	3402.2	3376.1	3468.4	3548.5
12.5°	3269.9	3299.7	3335.1	3406.9	3513.1
15°	3154.3	3177.6	3251.3	3344.4	3460.9
17.5°	3046.2	3073.3	3136.6	3276.4	3400.4
20°	2923.2	2960.5	3022.0	3200.9	3315.6
22.5°	2796.5	2831.0	2908.3	3100.3	3228.0
25°	2681.9	2708.9	2796.5	2985.7	3116.1
27.5°	2530.0	2580.3	2663.3	2845.9	2982.9
30°	2380.9	2423.8	2522.5	2676.3	2811.4
32.5°	2201.1	2263.5	2372.5	2489.9	2602.7
35°	2019.3	2074.3	2192.7	2238.3	2332.4
37.5°	1887.0	1901.9	1969.0	1963.4	2016.5
40°	1710.9	1740.7	1714.6	1644.7	1705.3
42.5°	1520.8	1556.2	1450.9	1369.8	1391.3
45°	1320.4	1351.2	1169.5	1109.8	1140.6
47.5°	1147.1	1144.3	943.0	903.0	860.1
50°	906.7	936.5	748.3	673.7	424.0
52.5°	708.2	719.4	616.9	430.5	278.6
55°	608.5	578.7	534.0	342.0	238.6
57.5°	540.5	503.2	473.4	317.8	218.1
60°	493.0	451.0	428.7	301.9	200.3
62.5°	438.9	406.3	397.9	287.9	184.5
65°	387.7	362.5	361.6	274.9	169.6
67.5°	336.4	322.4	326.2	259.1	152.8
70°	287.0	284.2	287.0	238.6	135.1
72.5°	245.1	242.3	249.7	212.5	115.6
75°	205.9	203.1	211.5	182.6	98.8
77.5°	164.0	165.9	171.5	151.9	82.9
80°	127.7	127.7	134.2	119.3	68.0
82.5°	91.3	92.3	96.0	87.6	53.1
85°	55.9	55.9	58.7	57.8	37.3
87.5°	18.6	21.4	25.2	27.0	18.6
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P894244
 CATALOG NUMBER: 4MB-SC3-LVRA-UNV-CC83-HI-4000K

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	16.93	18.28	17.29	18.60	18.91	13.26	14.62	13.63	14.93	15.24
	3H	18.67	19.87	19.05	20.20	20.57	15.24	16.45	15.62	16.77	17.14
	4H	19.34	20.47	19.74	20.82	21.20	15.94	17.07	16.34	17.42	17.80
	6H	19.85	20.88	20.26	21.25	21.65	16.47	17.50	16.88	17.87	18.27
	8H	20.02	21.00	20.45	21.39	21.80	16.65	17.64	17.08	18.03	18.43
	12H	20.13	21.07	20.56	21.45	21.88	16.79	17.73	17.22	18.12	18.55
4H	2H	17.46	18.59	17.86	18.94	19.32	14.88	16.01	15.29	16.36	16.74
	3H	19.44	20.37	19.85	20.77	21.17	17.06	17.99	17.47	18.40	18.80
	4H	20.24	21.07	20.67	21.49	21.94	17.94	18.78	18.38	19.20	19.64
	6H	20.88	21.61	21.34	22.05	22.52	18.59	19.31	19.05	19.75	20.22
	8H	21.10	21.78	21.57	22.23	22.70	18.79	19.47	19.26	19.92	20.39
	12H	21.26	21.86	21.74	22.34	22.81	18.95	19.55	19.44	20.03	20.51
8H	4H	20.52	21.20	20.99	21.65	22.12	18.59	19.27	19.06	19.71	20.18
	6H	21.31	21.86	21.81	22.36	22.84	19.45	20.01	19.95	20.50	20.98
	8H	21.61	22.11	22.13	22.62	23.11	19.78	20.28	20.30	20.79	21.28
	12H	21.84	22.28	22.36	22.78	23.35	20.04	20.48	20.56	20.98	21.55
12H	4H	20.54	21.14	21.03	21.62	22.10	18.66	19.26	19.15	19.75	20.22
	6H	21.36	21.86	21.88	22.37	22.86	19.59	20.09	20.11	20.60	21.09
	8H	21.72	22.16	22.24	22.66	23.23	20.00	20.44	20.52	20.94	21.51