

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: P894245

Luminaire Tested: 4MB-SC3-LVRA-UNV-CC83-HI-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894245
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-5000K
Description: Selectable 4FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 80CRI, 5000K CCT, HI lumen setting
Light Source: -
Ballast/Driver: -

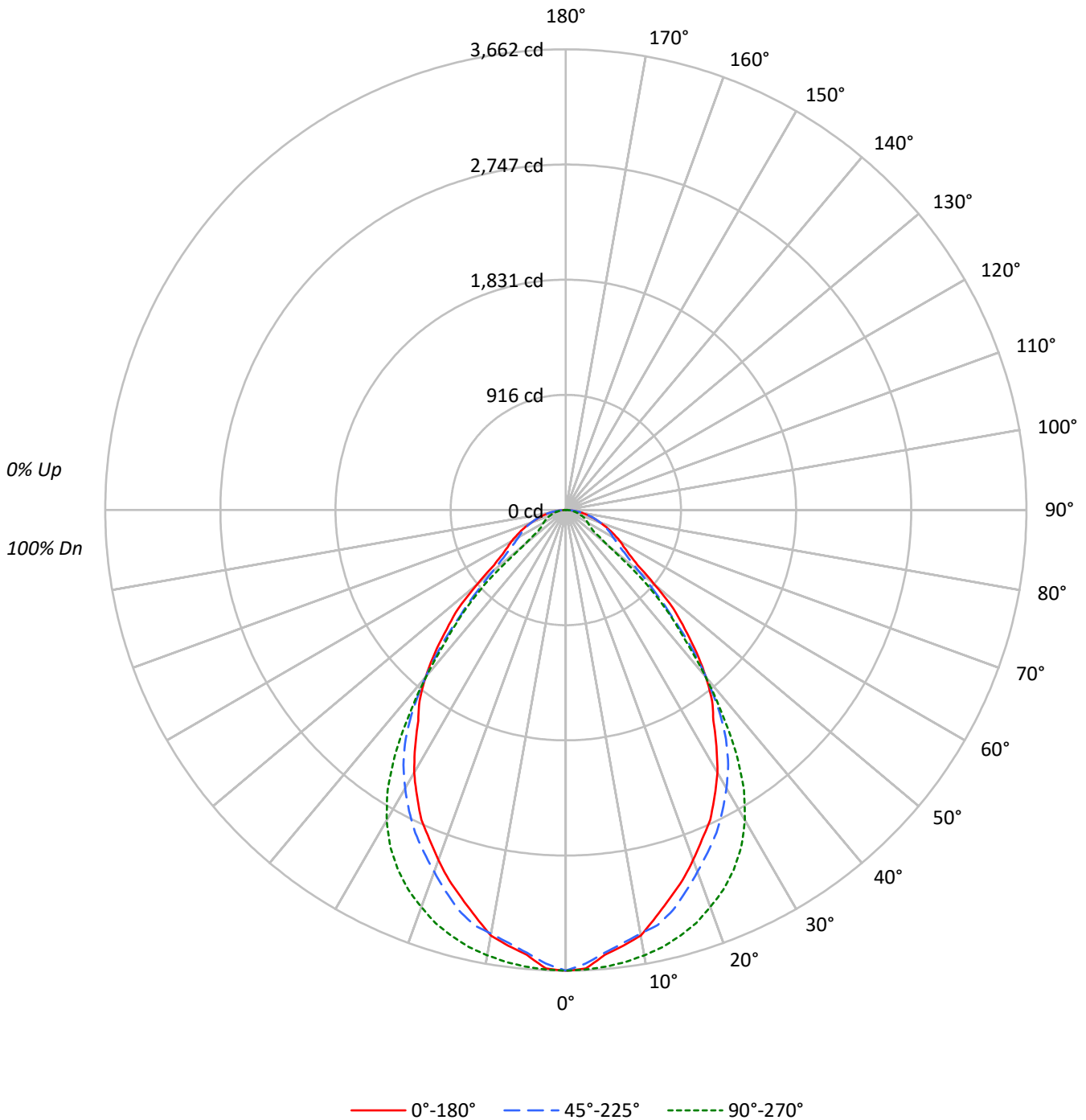
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5943.0 lumens
Efficiency: N/A
Efficacy: 117.2 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: P894245
CATALOG NUMBER: 4MB-SC3-LVRA-UNV-CC83-HI-5000K

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26054	26054	26054
5°	25351	25237	26025
10°	24813	24704	25965
15°	23532	24255	25819
20°	22417	23174	25425
25°	21324	22235	24776
30°	19810	20989	23393
35°	17763	19289	20518
40°	16094	16129	16041
45°	13456	11918	11624
50°	10165	8388	4753
55°	7645	6708	2997
60°	7105	6177	2887
65°	6610	6165	2892
70°	6047	6047	2846
75°	5734	5888	2749
80°	5298	5568	2823
85°	4621	4857	3086

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 13770 cd/sqm



TEST NUMBER: P894245
 CATALOG NUMBER: 4MB-SC3-LVRA-UNV-CC83-HI-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.3	5.7
10°-20°	932.0	15.7
20°-30°	1321.6	22.2
30°-40°	1361.6	22.9
40°-50°	951.0	16.0
50°-60°	456.3	7.7
60°-70°	320.1	5.4
70°-80°	200.2	3.4
80°-90°	61.9	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°	2591.9	43.6
0°-40°	3953.4	66.5
0°-60°	5360.8	90.2
0°-90°	5943.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5943.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3662	3662	3662	3662	3662	
5°	3550	3545	3534	3626	3644	336
15°	3195	3218	3293	3387	3505	900
25°	2716	2744	2832	3024	3156	1242
35°	2045	2101	2221	2267	2362	1289
45°	1337	1368	1184	1124	1155	1030
55°	616	586	541	346	242	578
65°	393	367	366	278	172	389
75°	209	206	214	185	100	220
85°	57	57	60	58	38	63
90°	0	0	0	0	0	



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CATALOG NUMBER: 4MB-SC3-LVRA-UNV-CC83-HI-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3661.8	3661.8	3661.8	3661.8	3661.8
2.5°	3647.7	3636.3	3609.0	3659.0	3655.2
5°	3549.5	3544.8	3533.5	3626.0	3643.9
7.5°	3493.8	3484.4	3471.2	3573.1	3623.1
10°	3434.4	3445.7	3419.3	3512.7	3593.9
12.5°	3311.7	3341.9	3377.7	3450.4	3558.0
15°	3194.7	3218.3	3292.8	3387.2	3505.2
17.5°	3085.2	3112.6	3176.7	3318.3	3443.8
20°	2960.6	2998.4	3060.6	3241.8	3357.9
22.5°	2832.3	2867.2	2945.5	3139.9	3269.2
25°	2716.2	2743.5	2832.3	3023.8	3156.0
27.5°	2562.3	2613.3	2697.3	2882.3	3021.0
30°	2411.3	2454.7	2554.8	2710.5	2847.4
32.5°	2229.2	2292.4	2402.8	2521.8	2635.9
35°	2045.1	2100.8	2220.7	2266.9	2362.3
37.5°	1911.1	1926.2	1994.2	1988.5	2042.3
40°	1732.8	1763.0	1736.5	1665.8	1727.1
42.5°	1540.2	1576.1	1469.4	1387.3	1409.0
45°	1337.3	1368.5	1184.4	1124.0	1155.2
47.5°	1161.8	1158.9	955.1	914.5	871.1
50°	918.3	948.5	757.8	682.3	429.4
52.5°	717.3	728.6	624.8	436.0	282.2
55°	616.3	586.1	540.8	346.4	241.6
57.5°	547.4	509.6	479.4	321.8	220.8
60°	499.3	456.8	434.1	305.8	202.9
62.5°	444.5	411.5	403.0	291.6	186.9
65°	392.6	367.1	366.2	278.4	171.8
67.5°	340.7	326.5	330.3	262.4	154.8
70°	290.7	287.8	290.7	241.6	136.8
72.5°	248.2	245.4	252.9	215.2	117.0
75°	208.6	205.7	214.2	185.0	100.0
77.5°	166.1	168.0	173.7	153.8	84.0
80°	129.3	129.3	135.9	120.8	68.9
82.5°	92.5	93.4	97.2	88.7	53.8
85°	56.6	56.6	59.5	58.5	37.8
87.5°	18.9	21.7	25.5	27.4	18.9
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	16.97	18.33	17.34	18.64	18.95	13.31	14.66	13.67	14.97	15.29
	3H	18.71	19.92	19.09	20.25	20.61	15.28	16.49	15.66	16.82	17.18
	4H	19.38	20.51	19.79	20.86	21.24	15.99	17.11	16.39	17.46	17.85
	6H	19.89	20.93	20.30	21.30	21.69	16.51	17.55	16.92	17.92	18.31
	8H	20.06	21.05	20.49	21.44	21.84	16.69	17.68	17.12	18.07	18.47
	12H	20.17	21.11	20.60	21.50	21.93	16.83	17.78	17.27	18.16	18.59
4H	2H	17.50	18.63	17.91	18.98	19.36	14.93	16.06	15.33	16.41	16.79
	3H	19.48	20.41	19.89	20.81	21.22	17.11	18.04	17.52	18.44	18.84
	4H	20.28	21.12	20.72	21.54	21.98	17.99	18.82	18.42	19.24	19.68
	6H	20.93	21.65	21.39	22.10	22.56	18.63	19.35	19.09	19.80	20.26
	8H	21.15	21.82	21.61	22.27	22.74	18.84	19.51	19.31	19.96	20.43
	12H	21.30	21.90	21.79	22.38	22.86	19.00	19.60	19.48	20.08	20.55
8H	4H	20.57	21.24	21.04	21.69	22.16	18.63	19.31	19.10	19.76	20.23
	6H	21.35	21.91	21.85	22.40	22.88	19.50	20.05	20.00	20.55	21.03
	8H	21.65	22.15	22.17	22.67	23.16	19.82	20.32	20.34	20.84	21.33
	12H	21.89	22.33	22.40	22.82	23.39	20.09	20.53	20.60	21.02	21.59
12H	4H	20.58	21.18	21.07	21.67	22.14	18.71	19.31	19.19	19.79	20.26
	6H	21.40	21.90	21.92	22.42	22.91	19.63	20.13	20.15	20.65	21.14
	8H	21.77	22.21	22.28	22.70	23.27	20.05	20.49	20.56	20.98	21.55