

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: P894263

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894263
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-5000K
Description: Selectable 4FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 80CRI, 5000K CCT
lumen setting
Light Source: -
Ballast/Driver: -

Summary

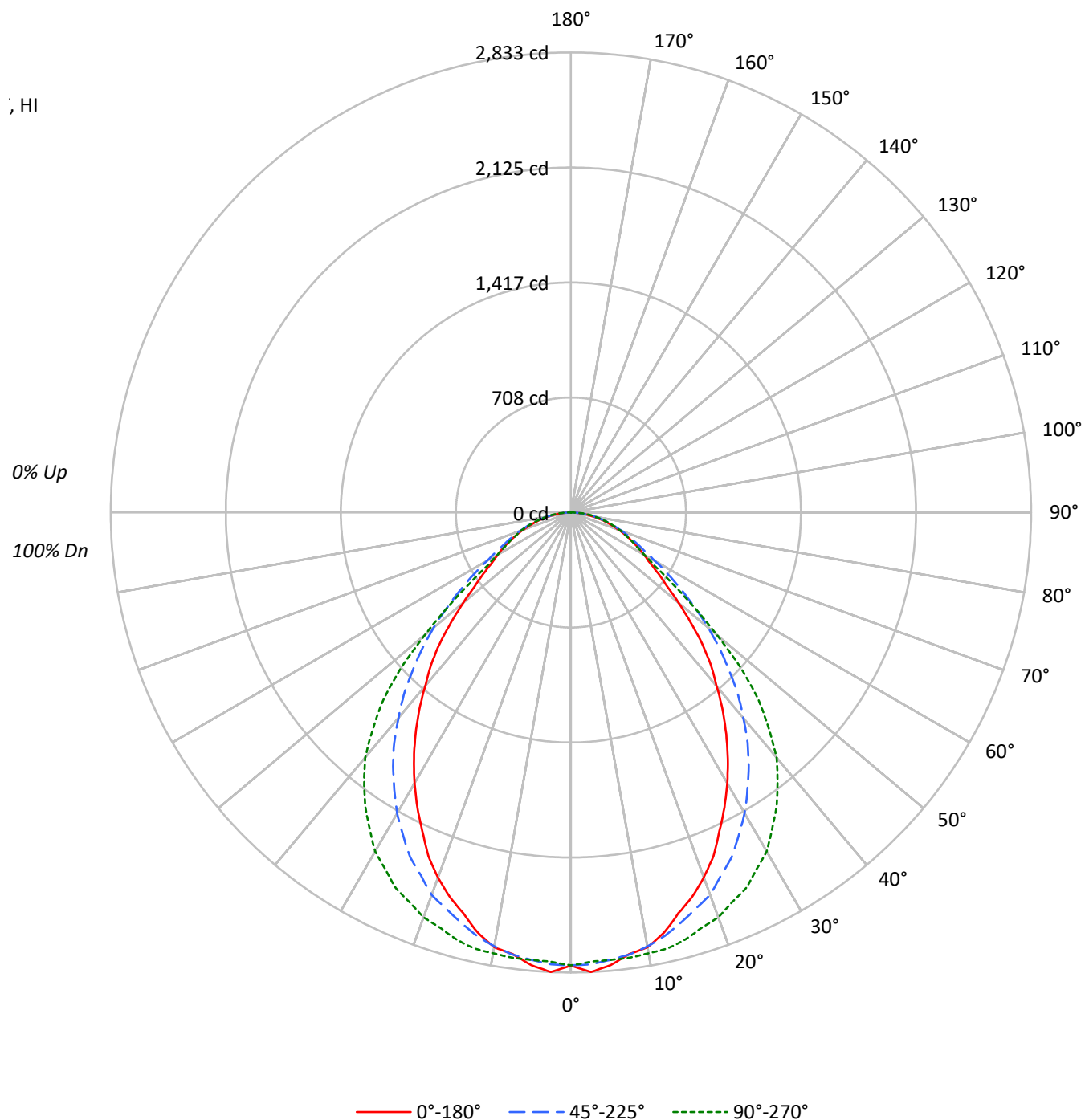
Lumens per Lamp: N/A
Luminaire Lumens: 5797.0 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.27 / 1.23
Luminous Opening: Rectangular (W 0.38' x L: 3.98' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P894263

CATALOG NUMBER: 4MB-SC3-LVRF-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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	106	102	99	108	104	100	97	100	97	94		96	93	91		92
2	102	94	88	83	99	92	87	82	89	84	80		86	82	79		83
3	94	84	77	71	91	83	76	70	80	74	69		77	72	68		75
4	87	76	68	62	84	74	67	61	72	66	60		70	64	60		68
5	80	68	60	54	78	67	60	54	65	59	53		63	58	53		62
6	75	62	54	48	73	61	54	48	60	53	48		58	52	47		56
7	69	57	49	43	68	56	48	43	55	48	43		53	47	42		52
8	65	52	44	39	63	52	44	39	50	44	39		49	43	38		48
9	61	48	41	35	60	48	40	35	47	40	35		46	39	35		45
10	57	45	37	32	56	44	37	32	43	37	32		42	36	32		42

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19846	19846	19846
5°	19984	19755	19755
10°	19638	19607	19911
15°	18825	19264	20054
20°	18110	18978	20087
25°	16989	18390	20041
30°	15814	17577	19806
35°	14476	16579	19175
40°	12960	15331	18295
45°	11501	13880	16449
50°	9569	12218	12973
55°	8151	10292	9428
60°	7390	8504	7451
65°	6960	7448	6935
70°	6549	6911	6759
75°	6100	6578	6460
80°	5585	6060	6240
85°	4857	5331	6988

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 16449 cd/sqm

TEST NUMBER: P894263

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.1	4.6
10°-20°	743.1	12.8
20°-30°	1079.1	18.6
30°-40°	1201.6	20.7
40°-50°	1061.6	18.3
50°-60°	696.6	12.0
60°-70°	426.6	7.4
70°-80°	248.2	4.3
80°-90°	76.0	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°	2086.3	36.0
0°-40°	3287.9	56.7
0°-60°	5046.2	87.0
0°-90°	5797.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5797.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2789	2789	2789	2789	2789	
5°	2798	2799	2766	2794	2766	264
15°	2556	2585	2615	2718	2722	721
25°	2164	2216	2342	2492	2553	996
35°	1667	1756	1909	2110	2208	1039
45°	1143	1213	1379	1565	1635	874
55°	657	704	830	822	760	596
65°	413	421	442	429	412	411
75°	222	225	239	244	235	235
85°	60	62	65	74	86	67
90°	0	0	0	0	0	

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2789.3	2789.3	2789.3	2789.3	2789.3
2.5°	2832.8	2798.0	2784.9	2798.0	2768.9
5°	2798.0	2799.4	2766.0	2793.6	2766.0
7.5°	2742.8	2761.7	2745.7	2787.8	2766.0
10°	2718.2	2719.6	2713.8	2757.3	2755.9
12.5°	2650.0	2654.4	2670.3	2735.6	2750.1
15°	2555.7	2584.7	2615.2	2718.2	2722.5
17.5°	2481.8	2516.6	2557.2	2667.4	2680.5
20°	2391.8	2406.3	2506.4	2603.6	2652.9
22.5°	2291.7	2319.3	2416.5	2547.0	2596.3
25°	2164.1	2216.3	2342.5	2491.9	2552.8
27.5°	2046.6	2107.5	2238.1	2404.9	2475.9
30°	1924.8	1994.4	2139.4	2303.3	2410.7
32.5°	1798.6	1885.6	2023.4	2212.0	2306.2
35°	1666.6	1756.5	1908.8	2110.4	2207.6
37.5°	1534.6	1621.6	1787.0	2003.1	2090.1
40°	1395.4	1480.9	1650.6	1869.7	1969.7
42.5°	1275.0	1348.9	1523.0	1710.1	1802.9
45°	1143.0	1212.6	1379.4	1565.1	1634.7
47.5°	997.9	1079.1	1241.6	1393.9	1421.5
50°	864.5	948.6	1103.8	1192.3	1172.0
52.5°	747.0	818.1	960.2	997.9	950.1
55°	657.1	703.5	829.7	822.4	760.0
57.5°	574.4	603.4	710.7	670.1	610.6
60°	519.3	532.3	597.6	559.9	523.6
62.5°	467.1	472.9	507.7	487.4	459.8
65°	413.4	420.6	442.4	429.3	411.9
67.5°	364.1	367.0	387.3	384.4	362.6
70°	314.8	319.1	332.2	338.0	324.9
72.5°	266.9	271.2	284.3	290.1	278.5
75°	221.9	224.8	239.3	243.7	235.0
77.5°	178.4	184.2	192.9	200.2	190.0
80°	136.3	139.2	147.9	156.7	152.3
82.5°	95.7	100.1	105.9	117.5	120.4
85°	59.5	62.4	65.3	74.0	85.6
87.5°	23.2	24.7	29.0	31.9	42.1
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	17.91	19.39	18.28	19.71	20.02	18.56	20.04	18.93	20.36	20.67
	3H	19.51	20.84	19.89	21.17	21.53	20.00	21.32	20.38	21.65	22.01
	4H	20.13	21.37	20.53	21.72	22.10	20.60	21.85	21.00	22.20	22.57
	6H	20.60	21.75	21.01	22.11	22.51	21.09	22.24	21.50	22.60	23.00
	8H	20.75	21.84	21.18	22.23	22.63	21.29	22.38	21.71	22.77	23.17
	12H	20.85	21.90	21.28	22.28	22.71	21.46	22.50	21.89	22.88	23.31
4H	2H	18.53	19.78	18.93	20.12	20.50	19.06	20.30	19.46	20.65	21.03
	3H	20.35	21.38	20.76	21.78	22.18	20.75	21.78	21.16	22.18	22.58
	4H	21.09	22.02	21.52	22.43	22.87	21.51	22.43	21.94	22.85	23.29
	6H	21.69	22.49	22.15	22.94	23.40	22.14	22.95	22.60	23.39	23.85
	8H	21.89	22.64	22.35	23.08	23.55	22.40	23.15	22.86	23.59	24.06
	12H	22.03	22.70	22.51	23.18	23.65	22.62	23.29	23.10	23.77	24.24
8H	4H	21.41	22.16	21.87	22.61	23.08	21.78	22.53	22.24	22.97	23.44
	6H	22.13	22.76	22.63	23.25	23.73	22.55	23.18	23.05	23.67	24.15
	8H	22.41	22.97	22.92	23.48	23.97	22.90	23.46	23.41	23.97	24.46
	12H	22.62	23.12	23.14	23.61	24.18	23.22	23.71	23.73	24.20	24.77
12H	4H	21.44	22.12	21.93	22.60	23.07	21.80	22.47	22.28	22.95	23.42
	6H	22.20	22.76	22.71	23.27	23.76	22.60	23.16	23.11	23.67	24.16
	8H	22.53	23.03	23.04	23.52	24.09	23.00	23.50	23.51	23.99	24.56