

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: P893035

Luminaire Tested: 2MB-SC3-LVR-UNV-CC83-MID-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893035
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-SC3-LVR-UNV-CC83-MID-3500K
Description: Selectable 2FT MICROBAY LINEAR BAY with LOUVER, 80CRI, 3500K CCT, MID lumen setting
Light Source: -
Ballast/Driver: -

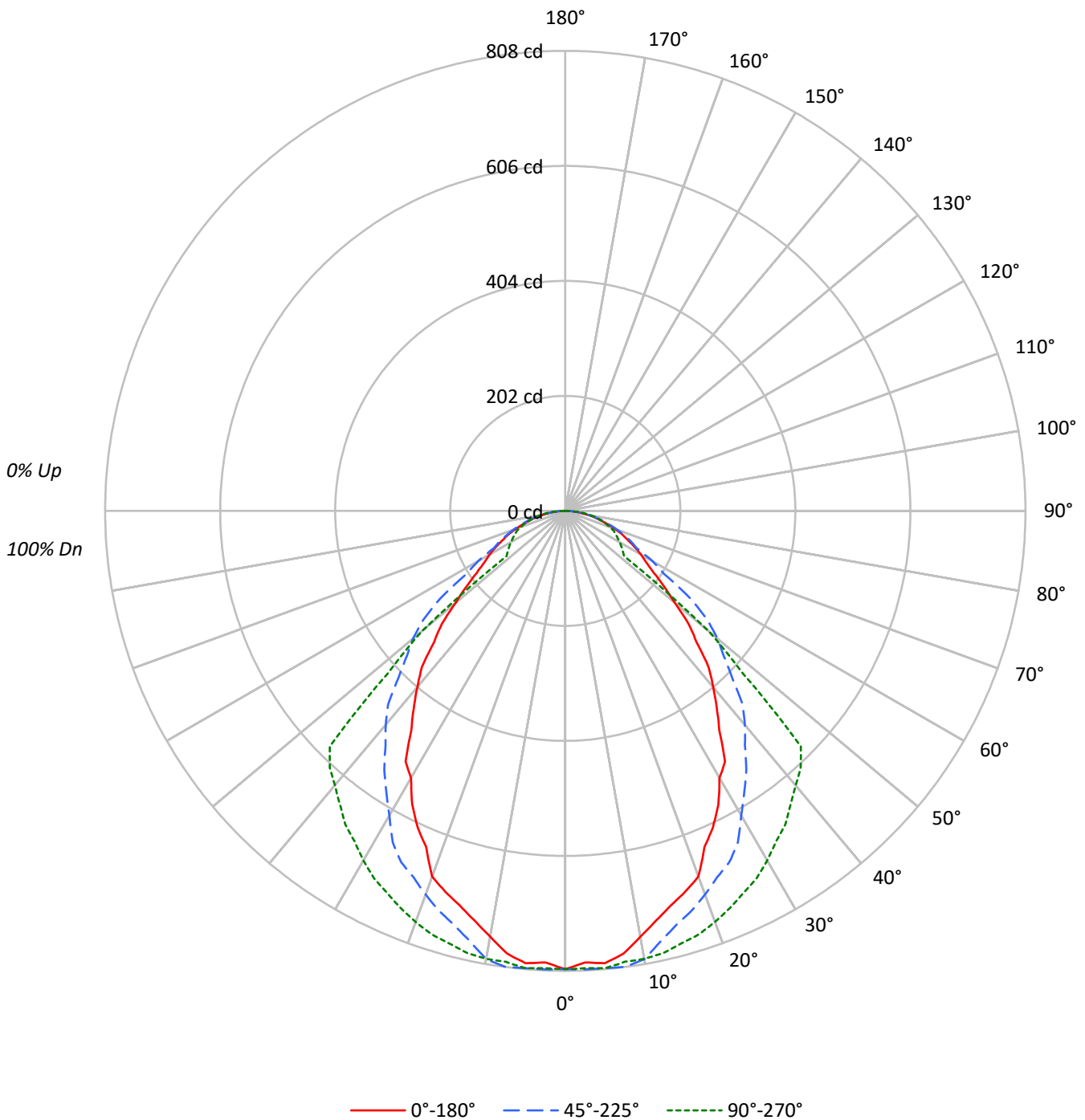
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1679.0 lumens
Efficiency: N/A
Efficacy: 120.8 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.3 / 1.26
Luminous Opening: Rectangular (W 0.38' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 13.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.9948
Total Harmonic Distortion (THDi): 5.65231997856897
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P893035
CATALOG NUMBER: 2MB-SC3-LVR-UNV-CC83-MID-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P893035

CATALOG NUMBER: 2MB-SC3-LVR-UNV-CC83-MID-3500K

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	94	91	92	90	89	89	89	89	87
2	102	94	88	83	99	93	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	75	67	62	72	66	61	70	64	60	68	63	59	59	59	59	57
5	80	69	60	54	78	68	60	54	66	59	54	64	58	53	62	57	53	53	53	53	51
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	47	47	47	45
7	70	57	49	43	68	56	49	43	55	48	43	53	47	43	52	47	42	42	42	42	40
8	65	52	45	39	64	52	44	39	50	44	39	49	43	39	48	43	38	38	38	38	37
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°	11513	11513	11513
5°	11452	11577	11577
10°	11031	11615	11605
15°	10620	11151	11648
20°	10404	10917	11695
25°	9681	10752	11687
30°	8946	10202	11712
35°	8234	9677	11757
40°	7548	9160	11752
45°	6595	8370	11831
50°	5579	7760	7320
55°	4739	6672	3063
60°	4392	5061	3159
65°	4082	4306	3314
70°	3852	4066	3484
75°	3554	3836	3598
80°	3254	3551	3790
85°	2872	3234	4087

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 11831 cd/sqm



TEST NUMBER: P893035
 CATALOG NUMBER: 2MB-SC3-LVR-UNV-CC83-MID-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.3	4.5
10°-20°	213.7	12.7
20°-30°	310.5	18.5
30°-40°	351.6	20.9
40°-50°	328.5	19.6
50°-60°	186.6	11.1
60°-70°	117.3	7.0
70°-80°	72.0	4.3
80°-90°	22.6	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°	600.5	35.8
0°-40°	952.1	56.7
0°-60°	1467.2	87.4
0°-90°	1679.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1679.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	805	805	805	805	805	
5°	798	806	806	803	806	75
15°	717	730	753	794	786	203
25°	613	625	681	712	740	281
35°	472	503	554	626	673	297
45°	326	360	414	526	585	254
55°	190	208	268	140	123	174
65°	121	125	127	110	98	121
75°	64	66	69	71	65	69
85°	18	18	20	22	25	20
90°	0	0	0	0	0	



TEST NUMBER: P893035

CATALOG NUMBER: 2MB-SC3-LVR-UNV-CC83-MID-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	804.8	804.8	804.8	804.8	804.8
2.5°	793.8	802.6	806.2	805.5	804.0
5°	797.5	805.5	806.2	803.3	806.2
7.5°	784.3	803.3	807.7	800.4	798.9
10°	759.4	770.4	799.6	802.6	798.9
12.5°	736.8	749.9	774.1	802.6	795.3
15°	717.1	729.5	752.9	793.8	786.5
17.5°	701.0	705.4	736.8	784.3	779.9
20°	683.4	692.2	717.1	760.9	768.2
22.5°	638.8	663.0	696.6	740.4	755.1
25°	613.3	625.0	681.2	711.9	740.4
27.5°	581.8	603.0	656.4	690.0	727.3
30°	541.6	565.7	617.6	667.3	709.0
32.5°	521.9	530.7	584.8	649.1	688.5
35°	471.5	502.9	554.1	626.4	673.2
37.5°	437.1	456.1	518.2	604.5	649.8
40°	404.2	426.1	490.5	580.4	629.3
42.5°	372.8	392.5	460.5	556.2	611.8
45°	326.0	359.6	413.7	525.5	584.8
47.5°	293.8	315.0	377.2	488.3	423.9
50°	250.7	276.3	348.7	334.8	328.9
52.5°	219.3	233.2	314.3	282.9	130.1
55°	190.0	207.6	267.5	140.3	122.8
57.5°	168.1	179.8	205.4	130.1	117.0
60°	153.5	156.4	176.9	124.3	110.4
62.5°	137.4	140.3	141.1	117.7	103.8
65°	120.6	125.0	127.2	110.4	97.9
67.5°	108.2	108.9	111.8	102.3	92.1
70°	92.1	93.6	97.2	93.6	83.3
72.5°	78.2	80.4	82.6	83.3	74.6
75°	64.3	66.5	69.4	70.9	65.1
77.5°	52.6	53.4	56.3	59.9	55.6
80°	39.5	41.7	43.1	46.8	46.0
82.5°	28.5	29.2	31.4	34.4	35.8
85°	17.5	18.3	19.7	21.9	24.9
87.5°	7.3	8.0	8.8	10.2	11.7
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P893035
 CATALOG NUMBER: 2MB-SC3-LVR-UNV-CC83-MID-3500K

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	16.21	17.69	16.57	18.00	18.31	13.95	15.43	14.32	15.75	16.06
	3H	17.79	19.12	18.17	19.45	19.81	16.29	17.61	16.67	17.94	18.30
	4H	18.40	19.64	18.80	19.98	20.36	17.23	18.47	17.63	18.82	19.20
	6H	18.86	20.00	19.27	20.37	20.76	18.02	19.17	18.44	19.53	19.93
	8H	19.01	20.10	19.44	20.49	20.89	18.33	19.42	18.76	19.81	20.21
	12H	19.11	20.15	19.54	20.53	20.96	18.58	19.62	19.01	20.00	20.43
4H	2H	16.78	18.02	17.18	18.37	18.75	15.11	16.35	15.51	16.70	17.08
	3H	18.60	19.62	19.01	20.03	20.43	17.55	18.57	17.96	18.97	19.38
	4H	19.33	20.25	19.77	20.67	21.11	18.60	19.52	19.03	19.94	20.38
	6H	19.92	20.73	20.38	21.17	21.63	19.49	20.29	19.95	20.74	21.20
	8H	20.12	20.87	20.59	21.32	21.78	19.84	20.59	20.30	21.03	21.50
	12H	20.26	20.93	20.75	21.41	21.88	20.12	20.79	20.61	21.27	21.74
8H	4H	19.64	20.39	20.10	20.83	21.30	19.00	19.75	19.46	20.19	20.66
	6H	20.36	20.98	20.86	21.47	21.95	20.04	20.66	20.54	21.16	21.63
	8H	20.63	21.19	21.15	21.70	22.19	20.48	21.04	21.00	21.55	22.04
	12H	20.85	21.35	21.36	21.84	22.41	20.87	21.36	21.38	21.86	22.42
12H	4H	19.67	20.34	20.16	20.82	21.29	19.04	19.71	19.52	20.19	20.66
	6H	20.42	20.99	20.94	21.50	21.98	20.11	20.67	20.63	21.18	21.67
	8H	20.76	21.26	21.27	21.75	22.31	20.62	21.11	21.13	21.61	22.17