

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: P893071

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893071
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-SC3-LVRF-UNV-CC83-MID-3500K
Description: Selectable 2FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 80CRI, 3500K CCT
lumen setting
Light Source: -
Ballast/Driver: -

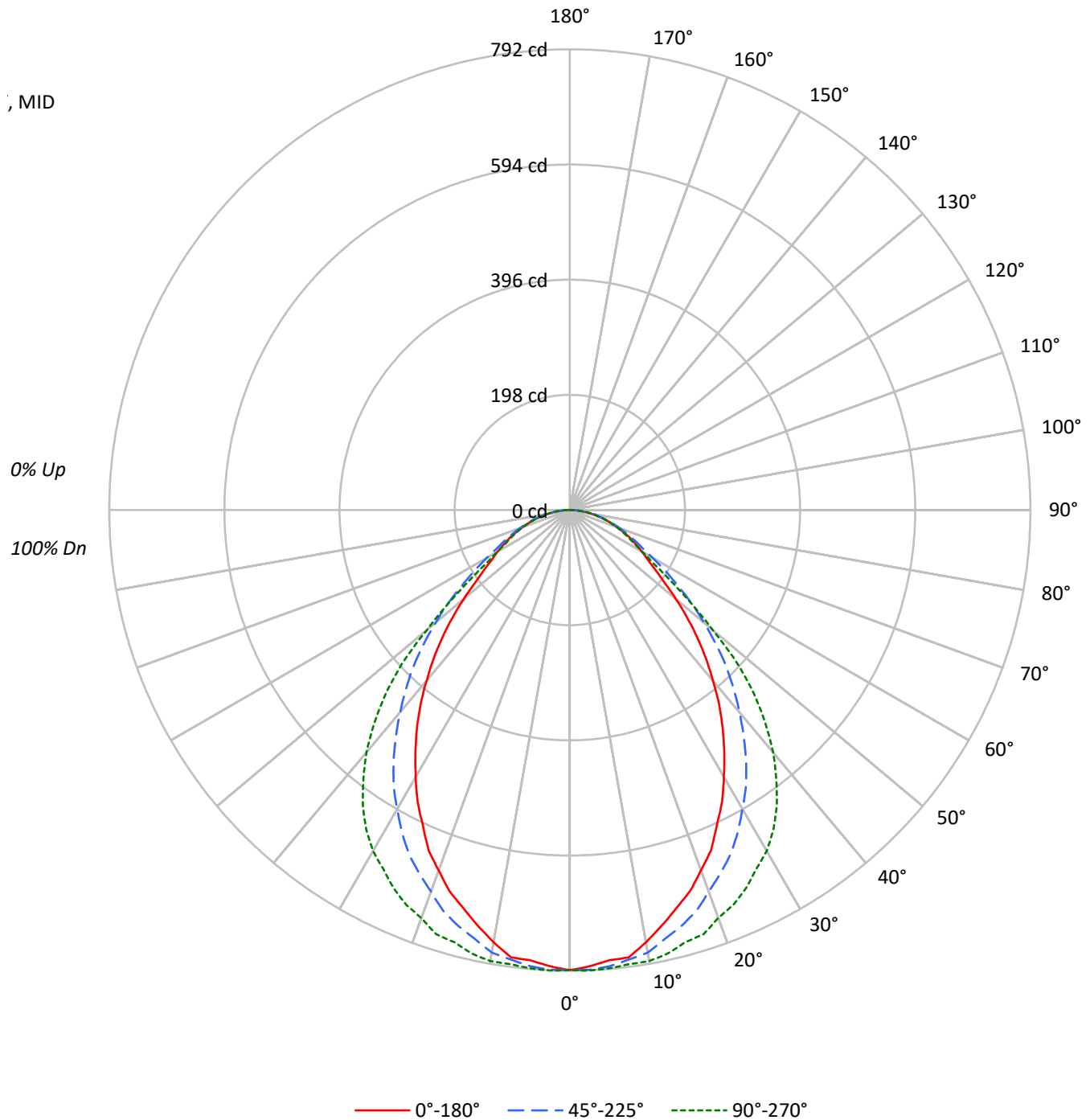
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1603.0 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Spacing Criteria (0/90/45): 1.04 / 1.26 / 1.21
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 (Ain): 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

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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	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	61	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	54	47	43	52	47	42	42	42	42	41
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	38	38	38	37
9	61	49	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	35	35	35	33
10	57	45	38	33	56	45	37	33	44	37	32	43	37	32	42	36	32	32	32	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11314	11314	11314
5°	11158	11306	11357
10°	10959	11223	11436
15°	10490	10967	11389
20°	10037	10628	11361
25°	9437	10315	11319
30°	8755	9805	11181
35°	8004	9230	10838
40°	7152	8476	10157
45°	6270	7690	9080
50°	5303	6703	7142
55°	4484	5634	5233
60°	4100	4707	4120
65°	3886	4133	3737
70°	3639	3823	3576
75°	3394	3598	3432
80°	3131	3369	3312
85°	2758	3004	3595

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 9080 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.6	4.7
10°-20°	208.8	13.0
20°-30°	300.9	18.8
30°-40°	332.0	20.7
40°-50°	290.6	18.1
50°-60°	190.9	11.9
60°-70°	116.7	7.3
70°-80°	67.5	4.2
80°-90°	20.9	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°	584.4	36.5
0°-40°	916.3	57.2
0°-60°	1397.8	87.2
0°-90°	1603.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1603.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	791	791	791	791	791	
5°	777	785	787	792	791	74
15°	708	720	740	765	769	199
25°	598	618	654	693	717	275
35°	458	478	528	587	621	286
45°	310	329	380	427	449	239
55°	180	189	226	227	210	164
65°	115	115	122	117	110	113
75°	61	61	65	66	62	65
85°	17	17	18	20	22	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	790.9	790.9	790.9	790.9	790.9
2.5°	785.1	789.5	790.9	793.8	792.4
5°	777.0	785.1	787.3	791.7	790.9
7.5°	775.6	772.6	779.2	788.0	787.3
10°	754.4	760.2	772.6	785.8	787.3
12.5°	731.7	741.2	755.1	777.8	780.7
15°	708.3	720.0	740.5	764.6	769.0
17.5°	687.1	698.8	722.9	750.0	764.6
20°	659.3	675.4	698.1	731.7	746.3
22.5°	633.8	646.9	676.2	712.7	734.6
25°	597.9	618.4	653.5	693.0	717.1
27.5°	566.5	585.5	625.0	668.8	695.2
30°	530.0	551.2	593.6	642.5	676.9
32.5°	494.1	513.9	563.6	614.0	651.3
35°	458.3	478.1	528.5	587.0	620.6
37.5°	421.8	442.2	491.2	551.2	583.3
40°	383.0	406.4	453.9	513.1	543.9
42.5°	346.5	368.4	416.7	474.4	497.8
45°	309.9	328.9	380.1	426.9	448.8
47.5°	273.4	291.7	340.6	379.4	391.8
50°	238.3	255.1	301.2	325.3	320.9
52.5°	205.4	220.8	264.6	274.1	261.7
55°	179.8	189.3	225.9	226.6	209.8
57.5°	158.6	165.9	194.4	187.1	168.9
60°	143.3	145.5	164.5	156.4	144.0
62.5°	127.9	129.4	139.6	133.8	124.3
65°	114.8	114.8	122.1	117.0	110.4
67.5°	100.1	100.9	106.0	103.1	98.0
70°	87.0	87.0	91.4	91.4	85.5
72.5°	73.8	73.8	77.5	78.2	74.6
75°	61.4	61.4	65.1	66.5	62.1
77.5°	49.7	49.7	52.6	54.8	49.7
80°	38.0	38.0	40.9	43.1	40.2
82.5°	27.0	27.8	29.2	31.4	31.4
85°	16.8	16.8	18.3	19.7	21.9
87.5°	7.3	8.0	8.8	9.5	11.0
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	15.84	17.32	16.21	17.63	17.94	16.59	18.06	16.95	18.38	18.69
	3H	17.44	18.76	17.82	19.09	19.45	17.93	19.25	18.31	19.58	19.94
	4H	18.06	19.29	18.46	19.64	20.02	18.50	19.74	18.90	20.09	20.47
	6H	18.53	19.67	18.95	20.04	20.43	18.96	20.10	19.37	20.47	20.86
	8H	18.69	19.78	19.12	20.17	20.57	19.14	20.22	19.56	20.61	21.02
	12H	18.80	19.84	19.23	20.22	20.65	19.29	20.33	19.72	20.71	21.14
4H	2H	16.47	17.70	16.87	18.05	18.43	17.07	18.30	17.47	18.65	19.03
	3H	18.28	19.30	18.69	19.70	20.10	18.67	19.70	19.08	20.10	20.50
	4H	19.01	19.93	19.44	20.35	20.79	19.40	20.32	19.83	20.74	21.18
	6H	19.61	20.41	20.07	20.85	21.32	20.01	20.81	20.47	21.25	21.72
	8H	19.81	20.56	20.28	21.01	21.48	20.25	21.00	20.71	21.44	21.91
	12H	19.96	20.63	20.44	21.11	21.58	20.45	21.12	20.93	21.60	22.07
8H	4H	19.32	20.07	19.79	20.52	20.98	19.67	20.42	20.13	20.86	21.33
	6H	20.05	20.67	20.54	21.16	21.64	20.42	21.04	20.92	21.53	22.01
	8H	20.33	20.89	20.84	21.40	21.88	20.75	21.31	21.26	21.82	22.30
	12H	20.55	21.05	21.06	21.54	22.10	21.04	21.53	21.55	22.03	22.59
12H	4H	19.36	20.02	19.84	20.50	20.98	19.69	20.35	20.17	20.83	21.31
	6H	20.11	20.67	20.63	21.18	21.67	20.47	21.03	20.98	21.54	22.03
	8H	20.45	20.95	20.96	21.44	22.01	20.86	21.35	21.37	21.84	22.41