

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: P893096

Luminaire Tested: 2MB-SC3-RFLW-UNV-CC93-LOW-4000K

Issue Date: 11/11/2024

**Test Information**

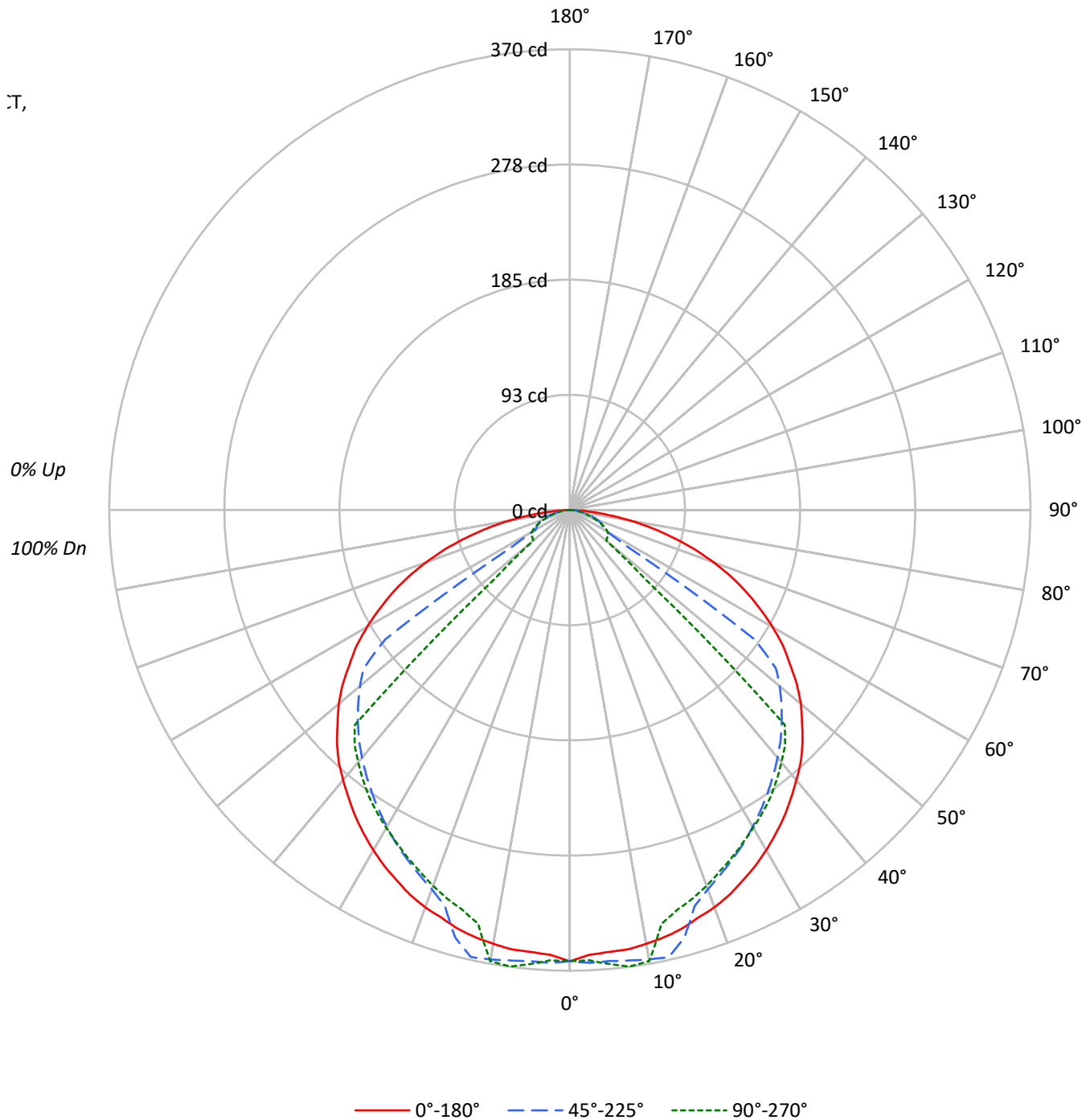
Test Method: LM-79-2019  
Report Number: P893096  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2408-210-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-SC3-RFLW-UNV-CC93-LOW-4000K  
Description: Selectable 2FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 90CRI, 4000K CC  
LOW lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 851.0 lumens  
Efficiency: N/A  
Efficacy: 123.3 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 1.22 / 1.37  
Luminous Opening: Rectangular (W 0.21' x L: 1.98' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 6.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.9915  
Total Harmonic Distortion (THDi): 6.67573310469889  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

TEST NUMBER: P893096  
CATALOG NUMBER: 2MB-SC3-RFLW-UNV-CC93-LOW-4000K

### Luminous Intensity Polar Plot





TEST NUMBER: P893096

CATALOG NUMBER: 2MB-SC3-RFLW-UNV-CC93-LOW-4000K

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				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	101	98	100	97	94	96	94	92	92	91	89	89	89	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	77	77	77	75
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	67	67	67	67	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	58	58	58	56
5	80	68	59	53	77	67	59	53	64	58	52	63	57	52	61	55	51	51	51	51	49
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46	46	46	46	44
7	69	56	48	42	67	55	47	42	53	46	41	52	46	41	51	45	41	41	41	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	42	37	47	41	37	37	37	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	37	33	33	33	33	32
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	30	30	30	29

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	9462	9462	9462
5°	9338	9529	9595
10°	9379	9716	9748
15°	9409	9609	8990
20°	9435	9005	8924
25°	9463	8913	8875
30°	9511	8857	8884
35°	9574	8832	8962
40°	9652	8848	9015
45°	9766	8891	9013
50°	9845	8936	1560
55°	9827	8230	1689
60°	9822	1660	1833
65°	9705	1767	1816
70°	9374	1840	1679
75°	8726	1725	1483
80°	7487	1534	1293
85°	5003	1468	1108

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 57.5°  
 Luminance: 9874 cd/sqm



TEST NUMBER: P893096

CATALOG NUMBER: 2MB-SC3-RFLW-UNV-CC93-LOW-4000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	34.7	4.1
10°-20°	97.9	11.5
20°-30°	146.5	17.2
30°-40°	176.7	20.8
40°-50°	177.9	20.9
50°-60°	111.0	13.0
60°-70°	69.8	8.2
70°-80°	29.0	3.4
80°-90°	7.4	0.9
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°	279.2	32.8
0°-40°	455.9	53.6
0°-60°	744.8	87.5
0°-90°	851.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	851.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	362	362	362	362	362	
5°	356	364	364	364	366	34
15°	348	359	356	333	333	98
25°	328	341	309	307	308	152
35°	300	281	277	279	281	188
45°	264	239	241	244	244	204
55°	216	190	181	36	37	193
65°	157	136	29	30	29	155
75°	86	21	17	15	15	91
85°	17	6	5	4	4	22
90°	0	0	0	0	0	



TEST NUMBER: P893096

CATALOG NUMBER: 2MB-SC3-RFLW-UNV-CC93-LOW-4000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	362.4	362.4	362.4	362.4	362.4
2.5°	357.5	364.0	364.0	362.4	362.0
5°	356.3	363.6	363.6	364.0	366.1
7.5°	355.9	362.8	364.9	367.3	369.8
10°	353.8	362.0	366.5	369.8	367.7
12.5°	351.4	360.4	367.7	346.9	340.4
15°	348.1	358.7	355.5	332.6	332.6
17.5°	343.2	356.3	333.4	326.9	327.3
20°	339.6	354.3	324.1	320.4	321.2
22.5°	334.7	350.2	316.7	313.4	314.3
25°	328.5	341.2	309.4	306.9	308.1
27.5°	322.4	322.8	302.0	300.4	301.2
30°	315.5	305.3	293.8	293.4	294.7
32.5°	308.1	292.2	285.7	286.5	288.1
35°	300.4	281.2	277.1	278.7	281.2
37.5°	291.8	271.0	268.5	271.4	273.0
40°	283.2	260.4	259.6	262.4	264.5
42.5°	274.7	250.2	250.6	253.4	255.9
45°	264.5	239.2	240.8	244.1	244.1
47.5°	253.0	227.3	230.6	223.7	82.8
50°	242.4	215.5	220.0	66.1	38.4
52.5°	229.8	202.8	208.6	36.3	37.5
55°	215.9	190.2	180.8	35.5	37.1
57.5°	203.2	177.1	53.9	35.1	36.3
60°	188.1	164.1	31.8	34.3	35.1
62.5°	172.6	150.2	30.2	32.6	32.6
65°	157.1	135.9	28.6	29.8	29.4
67.5°	140.4	121.2	26.9	26.1	25.7
70°	122.8	74.7	24.1	22.4	22.0
72.5°	105.3	25.7	20.8	18.8	18.4
75°	86.5	20.8	17.1	15.1	14.7
77.5°	68.2	17.1	13.5	11.8	11.4
80°	49.8	13.1	10.2	9.0	8.6
82.5°	32.2	9.4	7.8	6.1	5.7
85°	16.7	6.1	4.9	3.7	3.7
87.5°	6.5	3.7	2.4	1.6	1.2
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P893096  
 CATALOG NUMBER: 2MB-SC3-RFLW-UNV-CC93-LOW-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	20.80	22.31	21.16	22.63	22.94	9.44	10.95	9.80	11.27	11.58
	3H	22.72	24.07	23.10	24.40	24.76	11.57	12.92	11.94	13.25	13.61
	4H	23.20	24.47	23.60	24.82	25.20	12.25	13.52	12.65	13.87	14.25
	6H	23.64	24.81	24.05	25.17	25.57	12.72	13.88	13.13	14.25	14.64
	8H	23.78	24.89	24.21	25.28	25.68	12.85	13.96	13.28	14.35	14.75
	12H	23.86	24.92	24.29	25.30	25.73	12.94	14.00	13.37	14.38	14.81
4H	2H	20.65	21.91	21.05	22.26	22.64	10.19	11.46	10.59	11.81	12.19
	3H	22.67	23.72	23.08	24.12	24.52	12.53	13.57	12.94	13.97	14.38
	4H	23.16	24.10	23.59	24.51	24.95	13.32	14.26	13.76	14.68	15.12
	6H	23.67	24.49	24.13	24.93	25.39	13.90	14.71	14.35	15.15	15.61
	8H	23.86	24.62	24.32	25.06	25.53	14.07	14.83	14.53	15.27	15.74
	12H	23.99	24.66	24.47	25.14	25.61	14.19	14.87	14.67	15.34	15.82
8H	4H	23.09	23.84	23.55	24.29	24.76	13.91	14.67	14.38	15.12	15.58
	6H	23.60	24.22	24.09	24.72	25.19	14.57	15.19	15.06	15.68	16.16
	8H	23.80	24.36	24.31	24.87	25.36	14.79	15.35	15.30	15.86	16.35
	12H	23.96	24.45	24.47	24.95	25.51	14.96	15.46	15.47	15.95	16.52
12H	4H	23.06	23.73	23.54	24.21	24.68	13.99	14.67	14.48	15.15	15.62
	6H	23.55	24.12	24.07	24.63	25.12	14.68	15.24	15.19	15.75	16.24
	8H	23.78	24.28	24.29	24.77	25.33	14.96	15.46	15.47	15.95	16.52