

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: P893097

Luminaire Tested: 2MB-SC3-RFLW-UNV-CC93-LOW-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893097
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-5000K
Description: Selectable 2FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 90CRI, 5000K CC
LOW lumen setting
Light Source: -
Ballast/Driver: -

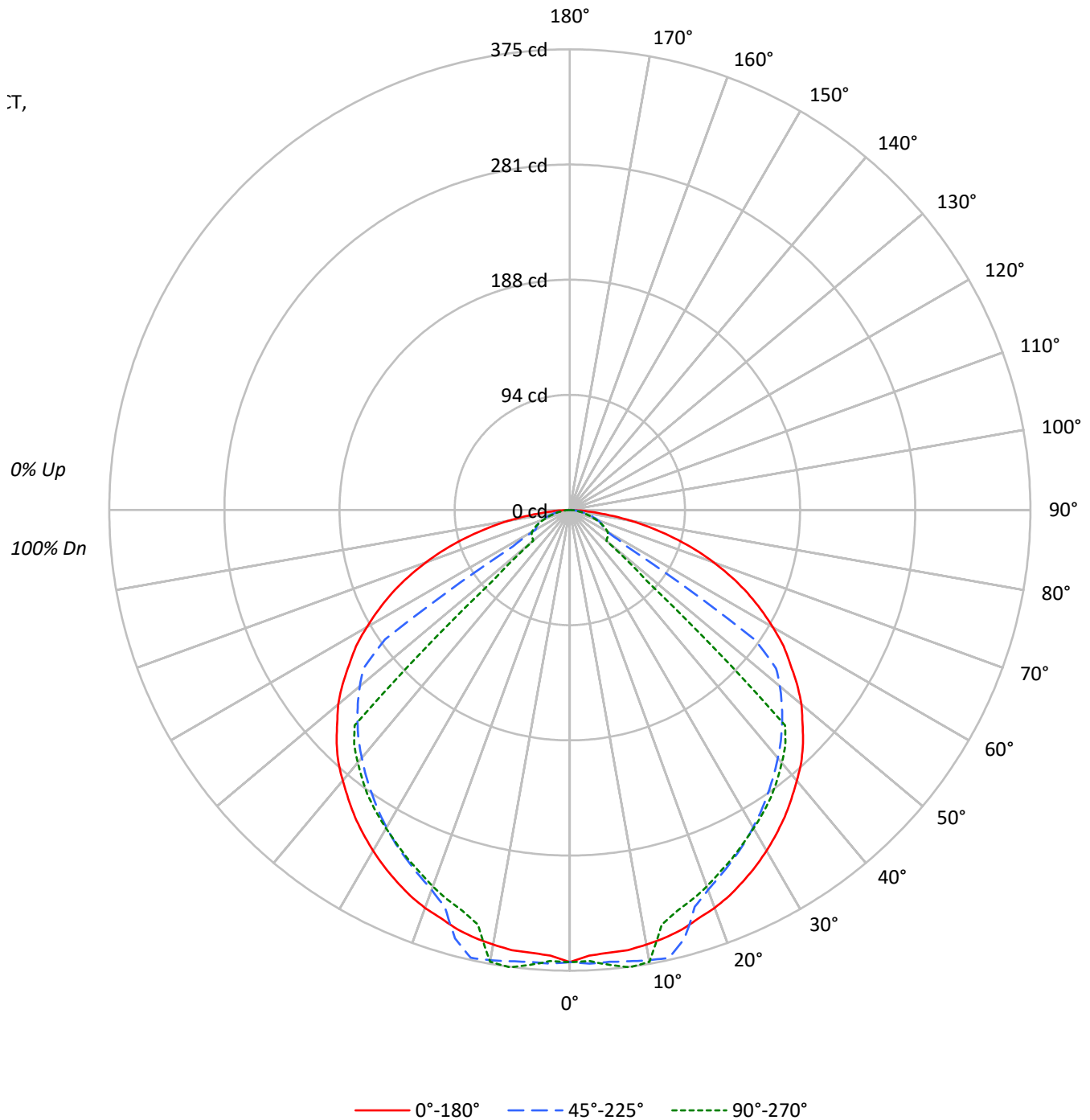
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 864.0 lumens
Efficiency: N/A
Efficacy: 125.2 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: P893097
CATALOG NUMBER: 2MB-SC3-RFLW-UNV-CC93-LOW-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P893097

CATALOG NUMBER: 2MB-SC3-RFLW-UNV-CC93-LOW-5000K

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	100				100
1	110	106	102	99	108	104	101	98	100	97	94	96	94	92	92	91	89	87				87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75				75
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	67	64				64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56				56
5	80	68	59	53	77	67	59	53	64	58	52	63	57	52	61	55	51	49				49
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46	44				44
7	69	56	48	42	67	55	47	42	53	46	41	52	46	41	51	45	41	39				39
8	64	51	43	37	62	50	43	37	49	42	37	48	42	37	47	41	37	35				35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	37	33	32				32
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29				29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9608	9608	9608
5°	9479	9676	9741
10°	9523	9865	9896
15°	9552	9755	9128
20°	9577	9141	9060
25°	9610	9048	9011
30°	9656	8993	9020
35°	9721	8966	9099
40°	9802	8980	9151
45°	9914	9027	9149
50°	9996	9070	1580
55°	9978	8357	1716
60°	9973	1687	1859
65°	9853	1792	1841
70°	9519	1863	1710
75°	8857	1755	1503
80°	7608	1564	1308
85°	5092	1498	1108

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 10029 cd/sqm



TEST NUMBER: P893097

CATALOG NUMBER: 2MB-SC3-RFLW-UNV-CC93-LOW-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.3	4.1
10°-20°	99.4	11.5
20°-30°	148.8	17.2
30°-40°	179.4	20.8
40°-50°	180.6	20.9
50°-60°	112.7	13.0
60°-70°	70.8	8.2
70°-80°	29.5	3.4
80°-90°	7.6	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°	283.5	32.8
0°-40°	462.8	53.6
0°-60°	756.1	87.5
0°-90°	864.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	864.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	368	368	368	368	368	
5°	362	369	369	370	372	34
15°	353	364	361	338	338	100
25°	334	346	314	312	313	154
35°	305	286	281	283	286	191
45°	268	243	244	248	248	207
55°	219	193	184	36	38	196
65°	160	138	29	30	30	157
75°	88	21	17	15	15	93
85°	17	6	5	4	4	22
90°	0	0	0	0	0	



TEST NUMBER: P893097

CATALOG NUMBER: 2MB-SC3-RFLW-UNV-CC93-LOW-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	368.0	368.0	368.0	368.0	368.0
2.5°	363.0	369.6	369.6	368.0	367.5
5°	361.7	369.2	369.2	369.6	371.7
7.5°	361.3	368.4	370.4	372.9	375.4
10°	359.2	367.5	372.1	375.4	373.3
12.5°	356.8	365.9	373.3	352.2	345.6
15°	353.4	364.2	360.9	337.7	337.7
17.5°	348.5	361.7	338.5	331.9	332.3
20°	344.7	359.7	329.0	325.3	326.1
22.5°	339.8	355.5	321.5	318.2	319.1
25°	333.6	346.4	314.1	311.6	312.8
27.5°	327.3	327.8	306.6	305.0	305.8
30°	320.3	309.9	298.3	297.9	299.2
32.5°	312.8	296.7	290.1	290.9	292.5
35°	305.0	285.5	281.3	283.0	285.5
37.5°	296.3	275.1	272.6	275.5	277.2
40°	287.6	264.4	263.5	266.4	268.5
42.5°	278.9	254.0	254.4	257.3	259.8
45°	268.5	242.8	244.5	247.8	247.8
47.5°	256.9	230.8	234.1	227.1	84.1
50°	246.1	218.8	223.3	67.1	38.9
52.5°	233.3	205.9	211.7	36.9	38.1
55°	219.2	193.1	183.6	36.0	37.7
57.5°	206.4	179.8	54.7	35.6	36.9
60°	191.0	166.6	32.3	34.8	35.6
62.5°	175.3	152.5	30.7	33.1	33.1
65°	159.5	138.0	29.0	30.2	29.8
67.5°	142.5	123.1	27.3	26.5	26.1
70°	124.7	75.8	24.4	22.8	22.4
72.5°	106.9	26.1	21.1	19.1	18.6
75°	87.8	21.1	17.4	15.3	14.9
77.5°	69.2	17.4	13.7	12.0	11.6
80°	50.6	13.3	10.4	9.1	8.7
82.5°	32.7	9.5	7.9	6.2	5.8
85°	17.0	6.2	5.0	3.7	3.7
87.5°	6.6	3.7	2.5	1.7	1.2
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P893097
 CATALOG NUMBER: 2MB-SC3-RFLW-UNV-CC93-LOW-5000K

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	20.85	22.37	21.22	22.68	22.99	9.49	11.00	9.85	11.31	11.63
	3H	22.77	24.12	23.15	24.45	24.81	11.62	12.97	12.00	13.30	13.66
	4H	23.26	24.52	23.66	24.87	25.25	12.31	13.57	12.71	13.92	14.30
	6H	23.69	24.86	24.11	25.23	25.62	12.77	13.93	13.18	14.30	14.69
	8H	23.83	24.94	24.26	25.33	25.73	12.90	14.01	13.33	14.40	14.80
	12H	23.91	24.97	24.34	25.35	25.78	12.99	14.05	13.42	14.43	14.86
4H	2H	20.70	21.96	21.10	22.31	22.69	10.24	11.51	10.64	11.85	12.23
	3H	22.73	23.77	23.14	24.17	24.57	12.58	13.63	12.99	14.03	14.43
	4H	23.21	24.15	23.65	24.57	25.01	13.38	14.31	13.81	14.73	15.17
	6H	23.73	24.54	24.18	24.98	25.44	13.95	14.76	14.41	15.20	15.66
	8H	23.91	24.67	24.38	25.12	25.58	14.12	14.88	14.58	15.32	15.79
	12H	24.04	24.72	24.52	25.19	25.67	14.24	14.91	14.72	15.39	15.86
8H	4H	23.14	23.90	23.60	24.34	24.81	13.96	14.72	14.43	15.17	15.63
	6H	23.65	24.28	24.15	24.77	25.25	14.62	15.24	15.11	15.73	16.21
	8H	23.85	24.41	24.36	24.92	25.41	14.84	15.40	15.35	15.91	16.40
	12H	24.01	24.51	24.52	25.00	25.57	15.01	15.51	15.52	16.00	16.57
12H	4H	23.11	23.78	23.59	24.26	24.74	14.05	14.72	14.53	15.20	15.67
	6H	23.61	24.17	24.12	24.68	25.17	14.73	15.29	15.24	15.80	16.29
	8H	23.83	24.33	24.34	24.82	25.39	15.01	15.51	15.52	16.00	16.57