

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: P893100

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

Issue Date: 11/11/2024

**Test Information**

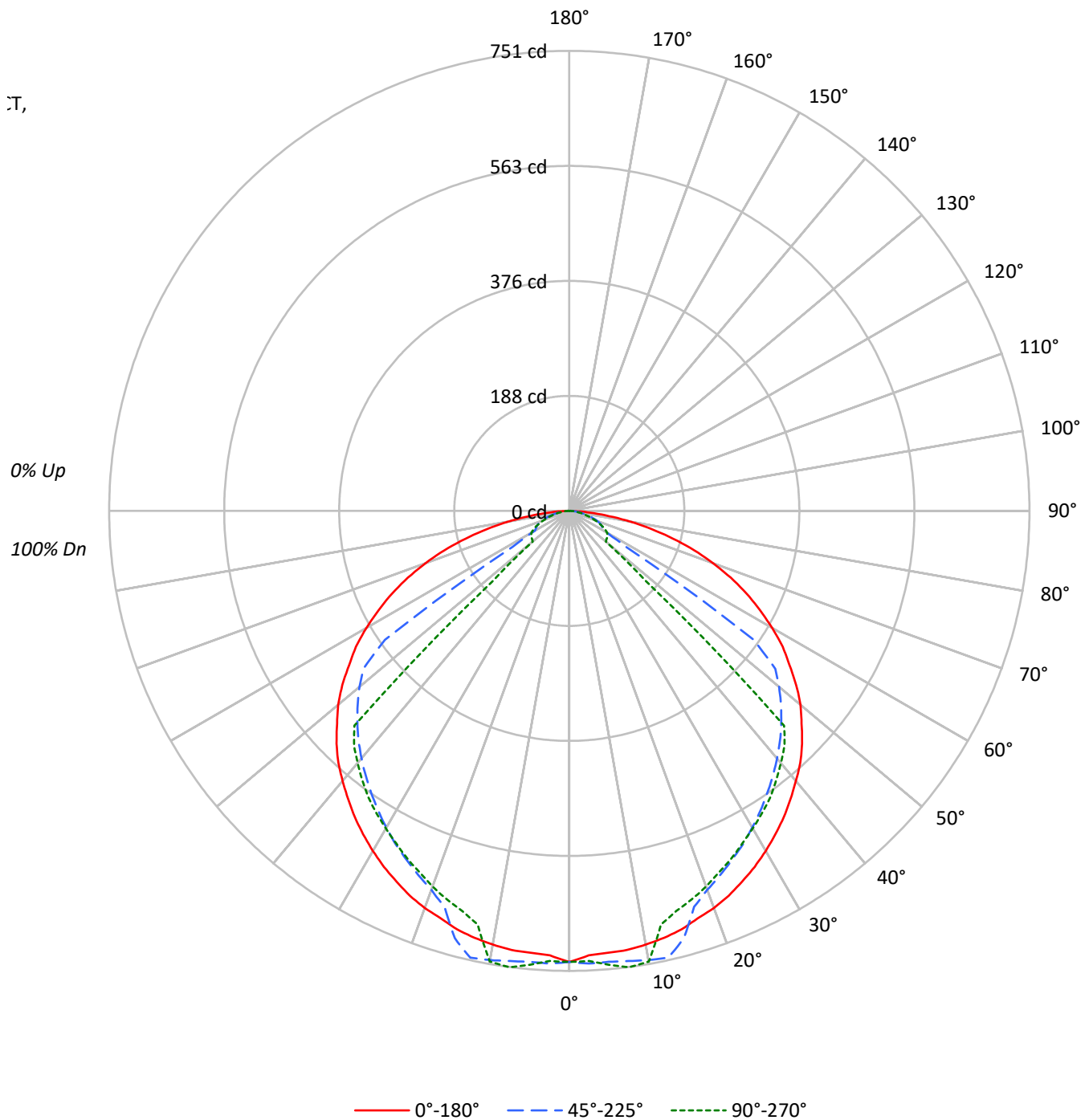
Test Method: LM-79-2019  
Report Number: P893100  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2408-210-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-SC3-RFLW-UNV-CC93-MID-5000K  
Description: Selectable 2FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 90CRI, 5000K CC  
MID lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1729.0 lumens  
Efficiency: N/A  
Efficacy: 124.4 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): 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	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°	19223	19223	19223
5°	18972	19362	19493
10°	19059	19740	19806
15°	19118	19520	18266
20°	19168	18293	18132
25°	19229	18105	18033
30°	19324	17998	18049
35°	19451	17944	18208
40°	19614	17975	18312
45°	19838	18062	18310
50°	20004	18152	3164
55°	19964	16719	3437
60°	19962	3378	3723
65°	19719	3583	3688
70°	19053	3733	3420
75°	17734	3510	3016
80°	15215	3112	2616
85°	10185	2996	2247

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 57.5°  
 Luminance: 20063 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.6	4.1
10°-20°	198.9	11.5
20°-30°	297.7	17.2
30°-40°	358.9	20.8
40°-50°	361.5	20.9
50°-60°	225.5	13.0
60°-70°	141.8	8.2
70°-80°	58.9	3.4
80°-90°	15.1	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°	567.2	32.8
0°-40°	926.2	53.6
0°-60°	1513.1	87.5
0°-90°	1729.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1729.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	736	736	736	736	736	
5°	724	739	739	740	744	69
15°	707	729	722	676	676	200
25°	668	693	628	624	626	308
35°	610	571	563	566	571	382
45°	537	486	489	496	496	414
55°	439	386	367	72	76	393
65°	319	276	58	60	60	315
75°	176	42	35	31	30	186
85°	34	12	10	8	8	44
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	736.3	736.3	736.3	736.3	736.3
2.5°	726.4	739.6	739.6	736.3	735.5
5°	723.9	738.8	738.8	739.6	743.8
7.5°	723.1	737.2	741.3	746.3	751.3
10°	718.9	735.5	744.6	751.3	747.1
12.5°	713.9	732.2	747.1	704.8	691.6
15°	707.3	728.9	722.2	675.8	675.8
17.5°	697.4	723.9	677.5	664.2	665.0
20°	689.9	719.7	658.4	650.9	652.6
22.5°	679.9	711.5	643.5	636.8	638.5
25°	667.5	693.2	628.5	623.6	626.0
27.5°	655.1	655.9	613.6	610.3	611.9
30°	641.0	620.2	597.0	596.2	598.7
32.5°	626.0	593.7	580.4	582.1	585.4
35°	610.3	571.3	563.0	566.3	571.3
37.5°	592.9	550.6	545.6	551.4	554.7
40°	575.5	529.0	527.4	533.2	537.3
42.5°	558.0	508.3	509.1	514.9	519.9
45°	537.3	485.9	489.2	495.9	495.9
47.5°	514.1	461.9	468.5	454.4	168.3
50°	492.5	437.8	446.9	134.3	77.9
52.5°	466.8	412.1	423.7	73.8	76.3
55°	438.6	386.4	367.3	72.1	75.5
57.5°	412.9	359.9	109.5	71.3	73.8
60°	382.3	333.3	64.7	69.7	71.3
62.5°	350.8	305.1	61.4	66.3	66.3
65°	319.2	276.1	58.0	60.5	59.7
67.5°	285.2	246.3	54.7	53.1	52.2
70°	249.6	151.7	48.9	45.6	44.8
72.5°	213.9	52.2	42.3	38.1	37.3
75°	175.8	42.3	34.8	30.7	29.9
77.5°	138.5	34.8	27.4	24.0	23.2
80°	101.2	26.5	20.7	18.2	17.4
82.5°	65.5	19.1	15.8	12.4	11.6
85°	34.0	12.4	10.0	7.5	7.5
87.5°	13.3	7.5	5.0	3.3	2.5
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	23.26	24.78	23.63	25.09	25.40	11.90	13.41	12.27	13.73	14.04
	3H	25.18	26.54	25.56	26.86	27.23	14.03	15.38	14.41	15.71	16.07
	4H	25.67	26.93	26.07	27.28	27.66	14.72	15.99	15.12	16.33	16.71
	6H	26.10	27.27	26.52	27.64	28.03	15.18	16.35	15.59	16.71	17.11
	8H	26.24	27.35	26.67	27.74	28.15	15.31	16.43	15.74	16.81	17.22
	12H	26.32	27.38	26.75	27.76	28.19	15.40	16.46	15.83	16.85	17.28
4H	2H	23.11	24.38	23.51	24.72	25.10	12.65	13.92	13.05	14.27	14.65
	3H	25.14	26.18	25.55	26.58	26.98	14.99	16.04	15.41	16.44	16.84
	4H	25.63	26.56	26.06	26.98	27.42	15.79	16.73	16.22	17.14	17.58
	6H	26.14	26.95	26.60	27.39	27.85	16.36	17.17	16.82	17.62	18.08
	8H	26.32	27.08	26.79	27.53	27.99	16.53	17.29	16.99	17.73	18.20
	12H	26.45	27.13	26.93	27.60	28.08	16.65	17.33	17.13	17.81	18.28
8H	4H	25.55	26.31	26.01	26.75	27.22	16.38	17.14	16.84	17.58	18.05
	6H	26.06	26.69	26.56	27.18	27.66	17.03	17.65	17.53	18.15	18.62
	8H	26.26	26.82	26.77	27.33	27.82	17.25	17.81	17.77	18.32	18.81
	12H	26.42	26.92	26.93	27.41	27.98	17.43	17.92	17.94	18.42	18.98
12H	4H	25.52	26.20	26.00	26.67	27.15	16.46	17.14	16.94	17.61	18.09
	6H	26.02	26.58	26.53	27.09	27.58	17.14	17.70	17.65	18.21	18.70
	8H	26.24	26.74	26.75	27.23	27.80	17.42	17.92	17.93	18.41	18.98