

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: P893099

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893099
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-4000K
Description: Selectable 2FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 90CRI, 4000K CC
MID lumen setting
Light Source: -
Ballast/Driver: -

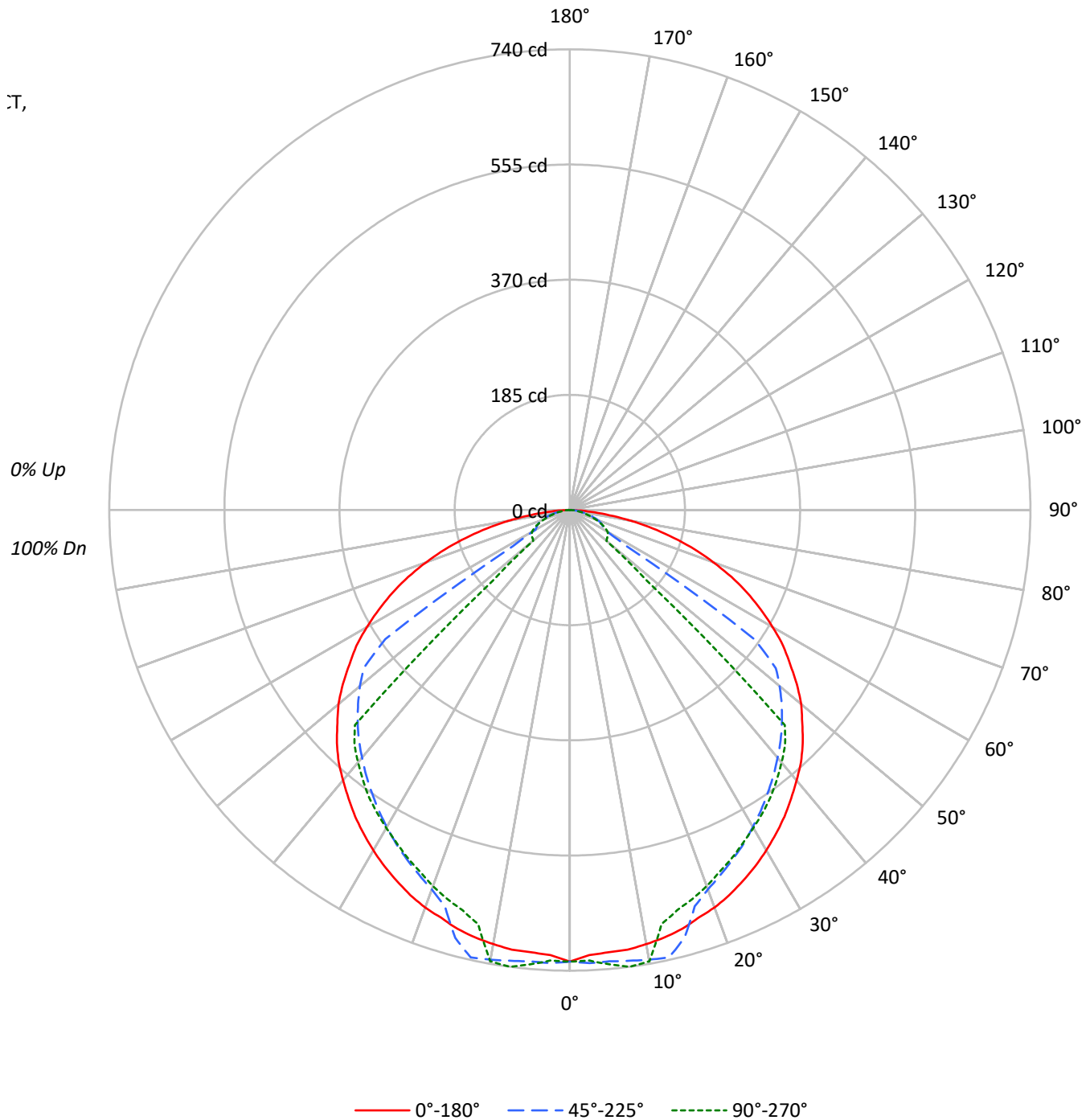
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1703.0 lumens
Efficiency: N/A
Efficacy: 122.5 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°	18936	18936	18936
5°	18686	19071	19200
10°	18772	19443	19509
15°	18831	19228	17990
20°	18879	18018	17859
25°	18941	17834	17762
30°	19032	17726	17778
35°	19158	17676	17934
40°	19317	17702	18036
45°	19539	17793	18033
50°	19703	17879	3119
55°	19664	16468	3382
60°	19659	3326	3666
65°	19423	3534	3632
70°	18763	3679	3366
75°	17461	3460	2966
80°	14975	3067	2586
85°	10035	2936	2217

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 19762 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.5	4.1
10°-20°	196.0	11.5
20°-30°	293.2	17.2
30°-40°	353.5	20.8
40°-50°	356.0	20.9
50°-60°	222.1	13.0
60°-70°	139.7	8.2
70°-80°	58.1	3.4
80°-90°	14.9	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°	558.7	32.8
0°-40°	912.3	53.6
0°-60°	1490.4	87.5
0°-90°	1703.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1703.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	725	725	725	725	725	
5°	713	728	728	728	733	68
15°	697	718	711	666	666	197
25°	658	683	619	614	617	303
35°	601	563	555	558	563	376
45°	529	479	482	488	488	408
55°	432	381	362	71	74	387
65°	314	272	57	60	59	310
75°	173	42	34	30	29	183
85°	34	12	10	7	7	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	725.3	725.3	725.3	725.3	725.3
2.5°	715.5	728.5	728.5	725.3	724.4
5°	713.0	727.7	727.7	728.5	732.6
7.5°	712.2	726.1	730.2	735.1	740.0
10°	708.1	724.4	733.4	740.0	735.9
12.5°	703.2	721.2	735.9	694.2	681.2
15°	696.7	717.9	711.4	665.6	665.6
17.5°	686.9	713.0	667.3	654.2	655.0
20°	679.5	708.9	648.5	641.1	642.8
22.5°	669.7	700.8	633.8	627.2	628.9
25°	657.5	682.8	619.1	614.2	616.6
27.5°	645.2	646.0	604.4	601.1	602.7
30°	631.3	610.9	588.0	587.2	589.7
32.5°	616.6	584.8	571.7	573.3	576.6
35°	601.1	562.7	554.6	557.8	562.7
37.5°	584.0	542.3	537.4	543.1	546.4
40°	566.8	521.1	519.4	525.2	529.2
42.5°	549.7	500.7	501.5	507.2	512.1
45°	529.2	478.6	481.9	488.4	488.4
47.5°	506.4	454.9	461.5	447.6	165.8
50°	485.1	431.2	440.2	132.3	76.8
52.5°	459.8	405.9	417.3	72.7	75.1
55°	432.0	380.6	361.8	71.1	74.3
57.5°	406.7	354.5	107.8	70.2	72.7
60°	376.5	328.3	63.7	68.6	70.2
62.5°	345.5	300.6	60.4	65.3	65.3
65°	314.4	272.0	57.2	59.6	58.8
67.5°	281.0	242.6	53.9	52.3	51.5
70°	245.8	149.5	48.2	44.9	44.1
72.5°	210.7	51.5	41.7	37.6	36.8
75°	173.1	41.7	34.3	30.2	29.4
77.5°	136.4	34.3	27.0	23.7	22.9
80°	99.6	26.1	20.4	18.0	17.2
82.5°	64.5	18.8	15.5	12.3	11.4
85°	33.5	12.3	9.8	7.4	7.4
87.5°	13.1	7.4	4.9	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	23.21	24.72	23.58	25.04	25.35	11.85	13.36	12.21	13.67	13.99
	3H	25.13	26.48	25.51	26.81	27.17	13.98	15.33	14.36	15.66	16.02
	4H	25.62	26.88	26.02	27.23	27.61	14.67	15.93	15.07	16.28	16.66
	6H	26.05	27.22	26.46	27.59	27.98	15.13	16.30	15.54	16.66	17.06
	8H	26.19	27.30	26.62	27.69	28.09	15.26	16.37	15.69	16.76	17.17
	12H	26.27	27.33	26.70	27.71	28.14	15.35	16.41	15.78	16.80	17.23
4H	2H	23.06	24.32	23.46	24.67	25.05	12.60	13.86	13.00	14.21	14.59
	3H	25.09	26.13	25.50	26.53	26.93	14.94	15.99	15.35	16.39	16.79
	4H	25.57	26.51	26.01	26.93	27.36	15.74	16.67	16.17	17.09	17.53
	6H	26.09	26.90	26.54	27.34	27.80	16.31	17.12	16.77	17.57	18.03
	8H	26.27	27.03	26.74	27.47	27.94	16.48	17.24	16.95	17.68	18.15
	12H	26.40	27.07	26.88	27.55	28.02	16.60	17.28	17.09	17.76	18.23
8H	4H	25.50	26.26	25.96	26.70	27.17	16.33	17.08	16.79	17.53	18.00
	6H	26.01	26.63	26.51	27.13	27.60	16.98	17.61	17.48	18.10	18.58
	8H	26.21	26.77	26.72	27.28	27.77	17.20	17.77	17.72	18.28	18.77
	12H	26.37	26.87	26.88	27.36	27.92	17.38	17.88	17.89	18.37	18.94
12H	4H	25.47	26.14	25.95	26.62	27.09	16.41	17.08	16.89	17.56	18.03
	6H	25.96	26.53	26.48	27.04	27.53	17.09	17.65	17.60	18.16	18.65
	8H	26.19	26.69	26.70	27.18	27.74	17.37	17.87	17.88	18.36	18.93