

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: P893091

Luminaire Tested: 2MB-SC3-RFLW-UNV-CC83-MID-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893091
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-CC83-MID-5000K
Description: Selectable 2FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 80CRI, 5000K CC
MID lumen setting
Light Source: -
Ballast/Driver: -

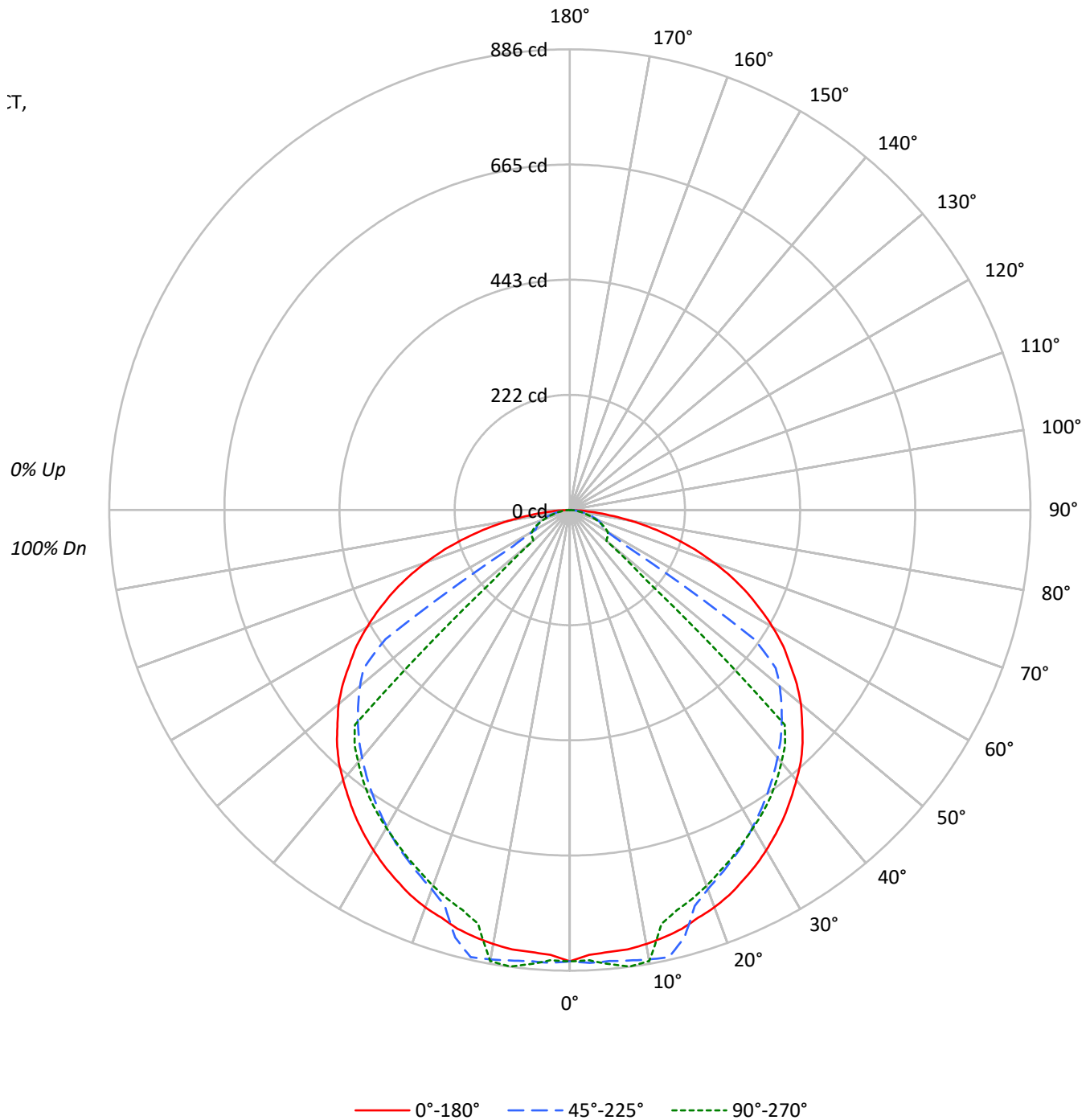
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2038.0 lumens
Efficiency: N/A
Efficacy: 146.6 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°	22659	22659	22659
5°	22363	22824	22976
10°	22465	23268	23345
15°	22534	23010	21531
20°	22594	21560	21371
25°	22665	21343	21257
30°	22776	21214	21275
35°	22929	21150	21463
40°	23117	21185	21584
45°	23383	21293	21581
50°	23582	21397	3733
55°	23533	19709	4047
60°	23528	3979	4391
65°	23247	4226	4349
70°	22458	4405	4030
75°	20901	4146	3551
80°	17922	3669	3082
85°	12012	3505	2636

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 23649 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.2	4.1
10°-20°	234.5	11.5
20°-30°	350.9	17.2
30°-40°	423.1	20.8
40°-50°	426.1	20.9
50°-60°	265.8	13.0
60°-70°	167.1	8.2
70°-80°	69.5	3.4
80°-90°	17.8	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°	668.6	32.8
0°-40°	1091.7	53.6
0°-60°	1783.6	87.5
0°-90°	2038.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2038.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	868	868	868	868	868	
5°	853	871	871	872	877	81
15°	834	859	851	797	797	235
25°	787	817	741	735	738	363
35°	719	673	664	668	673	450
45°	633	573	577	584	584	488
55°	517	456	433	85	89	463
65°	376	326	68	71	70	371
75°	207	50	41	36	35	219
85°	40	15	12	9	9	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	867.9	867.9	867.9	867.9	867.9
2.5°	856.2	871.8	871.8	867.9	866.9
5°	853.3	870.9	870.9	871.8	876.7
7.5°	852.3	868.9	873.8	879.6	885.5
10°	847.4	866.9	877.7	885.5	880.6
12.5°	841.5	863.0	880.6	830.8	815.1
15°	833.7	859.1	851.3	796.6	796.6
17.5°	822.0	853.3	798.5	782.9	783.9
20°	813.2	848.4	776.0	767.2	769.2
22.5°	801.5	838.6	758.5	750.6	752.6
25°	786.8	817.1	740.9	735.0	737.9
27.5°	772.1	773.1	723.3	719.4	721.3
30°	755.5	731.1	703.7	702.7	705.7
32.5°	737.9	699.8	684.2	686.1	690.0
35°	719.4	673.4	663.6	667.6	673.4
37.5°	698.8	649.0	643.1	650.0	653.9
40°	678.3	623.6	621.6	628.5	633.3
42.5°	657.8	599.1	600.1	607.0	612.8
45°	633.3	572.7	576.7	584.5	584.5
47.5°	606.0	544.4	552.2	535.6	198.4
50°	580.6	516.1	526.8	158.3	91.9
52.5°	550.3	485.8	499.4	87.0	89.9
55°	517.0	455.5	433.0	85.0	88.9
57.5°	486.7	424.2	129.0	84.1	87.0
60°	450.6	392.9	76.2	82.1	84.1
62.5°	413.4	359.7	72.3	78.2	78.2
65°	376.3	325.5	68.4	71.3	70.4
67.5°	336.2	290.3	64.5	62.6	61.6
70°	294.2	178.9	57.7	53.8	52.8
72.5°	252.2	61.6	49.8	45.0	44.0
75°	207.2	49.8	41.1	36.2	35.2
77.5°	163.2	41.1	32.3	28.3	27.4
80°	119.2	31.3	24.4	21.5	20.5
82.5°	77.2	22.5	18.6	14.7	13.7
85°	40.1	14.7	11.7	8.8	8.8
87.5°	15.6	8.8	5.9	3.9	2.9
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	23.83	25.35	24.20	25.66	25.98	12.48	13.99	12.84	14.30	14.62
	3H	25.75	27.11	26.13	27.43	27.80	14.61	15.96	14.99	16.29	16.65
	4H	26.24	27.51	26.64	27.85	28.23	15.29	16.56	15.69	16.91	17.29
	6H	26.67	27.84	27.09	28.21	28.60	15.75	16.92	16.17	17.29	17.68
	8H	26.81	27.93	27.24	28.31	28.72	15.89	17.00	16.32	17.39	17.79
	12H	26.89	27.95	27.32	28.33	28.76	15.98	17.04	16.41	17.42	17.85
4H	2H	23.68	24.95	24.08	25.29	25.67	13.23	14.49	13.63	14.84	15.22
	3H	25.71	26.75	26.12	27.15	27.55	15.57	16.61	15.98	17.01	17.41
	4H	26.20	27.13	26.63	27.55	27.99	16.36	17.30	16.80	17.72	18.16
	6H	26.71	27.52	27.17	27.96	28.42	16.93	17.75	17.39	18.19	18.65
	8H	26.89	27.65	27.36	28.10	28.57	17.11	17.86	17.57	18.31	18.78
	12H	27.02	27.70	27.50	28.18	28.65	17.23	17.90	17.71	18.38	18.85
8H	4H	26.12	26.88	26.58	27.32	27.79	16.95	17.71	17.42	18.15	18.62
	6H	26.63	27.26	27.13	27.75	28.23	17.60	18.23	18.10	18.72	19.20
	8H	26.83	27.39	27.35	27.90	28.39	17.83	18.39	18.34	18.90	19.39
	12H	26.99	27.49	27.50	27.98	28.55	18.00	18.50	18.51	18.99	19.56
12H	4H	26.09	26.77	26.57	27.25	27.72	17.03	17.71	17.52	18.19	18.66
	6H	26.59	27.15	27.10	27.66	28.15	17.71	18.28	18.23	18.79	19.28
	8H	26.81	27.31	27.32	27.80	28.37	18.00	18.50	18.51	18.99	19.55