

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: P893090

Luminaire Tested: 2MB-SC3-RFLW-UNV-CC83-MID-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893090
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-4000K
Description: Selectable 2FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 80CRI, 4000K CC
MID lumen setting
Light Source: -
Ballast/Driver: -

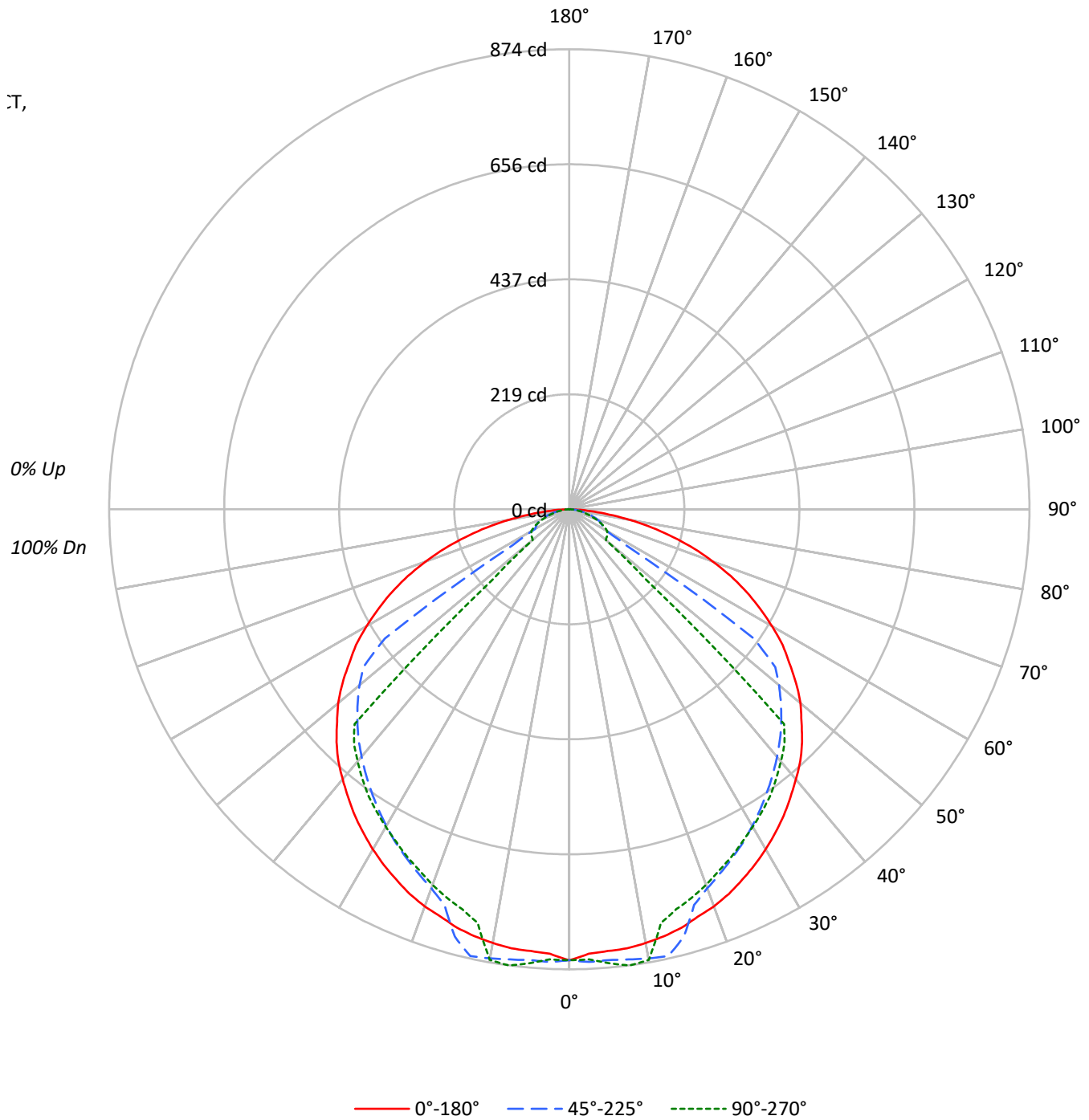
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2012.0 lumens
Efficiency: N/A
Efficacy: 144.7 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°	22369	22369	22369
5°	22077	22531	22683
10°	22179	22972	23048
15°	22248	22715	21256
20°	22305	21285	21099
25°	22377	21069	20986
30°	22487	20943	21003
35°	22635	20882	21188
40°	22824	20916	21311
45°	23087	21020	21304
50°	23282	21125	3684
55°	23232	19459	3996
60°	23226	3932	4334
65°	22950	4170	4293
70°	22168	4343	3977
75°	20639	4085	3500
80°	17696	3623	3052
85°	11862	3475	2606

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 23348 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.1	4.1
10°-20°	231.5	11.5
20°-30°	346.5	17.2
30°-40°	417.7	20.8
40°-50°	420.6	20.9
50°-60°	262.4	13.0
60°-70°	165.0	8.2
70°-80°	68.6	3.4
80°-90°	17.6	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°	660.1	32.8
0°-40°	1077.8	53.6
0°-60°	1760.8	87.5
0°-90°	2012.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2012.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	857	857	857	857	857	
5°	842	860	860	861	866	80
15°	823	848	840	786	786	232
25°	777	807	731	726	728	358
35°	710	665	655	659	665	445
45°	625	565	569	577	577	482
55°	510	450	428	84	88	457
65°	372	321	68	70	70	366
75°	205	49	40	36	35	216
85°	40	14	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°	856.8	856.8	856.8	856.8	856.8
2.5°	845.3	860.7	860.7	856.8	855.9
5°	842.4	859.7	859.7	860.7	865.5
7.5°	841.4	857.8	862.6	868.4	874.2
10°	836.6	855.9	866.5	874.2	869.4
12.5°	830.8	852.0	869.4	820.2	804.7
15°	823.1	848.2	840.4	786.4	786.4
17.5°	811.5	842.4	788.3	772.9	773.9
20°	802.8	837.5	766.1	757.5	759.4
22.5°	791.2	827.9	748.8	741.1	743.0
25°	776.8	806.7	731.4	725.6	728.5
27.5°	762.3	763.3	714.0	710.2	712.1
30°	745.9	721.8	694.7	693.8	696.7
32.5°	728.5	690.9	675.4	677.4	681.2
35°	710.2	664.8	655.2	659.0	664.8
37.5°	689.9	640.7	634.9	641.7	645.5
40°	669.7	615.6	613.7	620.4	625.3
42.5°	649.4	591.5	592.5	599.2	605.0
45°	625.3	565.4	569.3	577.0	577.0
47.5°	598.2	537.5	545.2	528.8	195.9
50°	573.2	509.5	520.1	156.3	90.7
52.5°	543.2	479.6	493.1	85.9	88.8
55°	510.4	449.7	427.5	83.9	87.8
57.5°	480.5	418.8	127.4	83.0	85.9
60°	444.8	387.9	75.3	81.1	83.0
62.5°	408.2	355.1	71.4	77.2	77.2
65°	371.5	321.3	67.5	70.4	69.5
67.5°	331.9	286.6	63.7	61.8	60.8
70°	290.4	176.6	56.9	53.1	52.1
72.5°	248.9	60.8	49.2	44.4	43.4
75°	204.6	49.2	40.5	35.7	34.7
77.5°	161.1	40.5	31.8	28.0	27.0
80°	117.7	30.9	24.1	21.2	20.3
82.5°	76.2	22.2	18.3	14.5	13.5
85°	39.6	14.5	11.6	8.7	8.7
87.5°	15.4	8.7	5.8	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	23.79	25.30	24.15	25.62	25.93	12.43	13.94	12.80	14.26	14.57
	3H	25.71	27.06	26.09	27.39	27.75	14.56	15.91	14.94	16.24	16.60
	4H	26.19	27.46	26.59	27.81	28.19	15.25	16.51	15.65	16.86	17.24
	6H	26.63	27.80	27.04	28.16	28.56	15.71	16.88	16.12	17.24	17.63
	8H	26.77	27.88	27.20	28.27	28.67	15.84	16.95	16.27	17.34	17.74
	12H	26.85	27.91	27.28	28.29	28.72	15.93	16.99	16.36	17.37	17.80
4H	2H	23.64	24.90	24.04	25.25	25.63	13.18	14.45	13.58	14.79	15.17
	3H	25.66	26.71	26.07	27.11	27.51	15.52	16.57	15.93	16.97	17.37
	4H	26.15	27.09	26.58	27.50	27.94	16.32	17.25	16.75	17.67	18.11
	6H	26.66	27.48	27.12	27.92	28.38	16.89	17.70	17.35	18.14	18.60
	8H	26.85	27.61	27.31	28.05	28.52	17.06	17.82	17.52	18.26	18.73
	12H	26.98	27.65	27.46	28.13	28.60	17.18	17.86	17.66	18.34	18.81
8H	4H	26.08	26.83	26.54	27.28	27.75	16.90	17.66	17.37	18.11	18.57
	6H	26.59	27.21	27.08	27.70	28.18	17.56	18.18	18.05	18.67	19.15
	8H	26.79	27.35	27.30	27.86	28.35	17.78	18.34	18.30	18.85	19.34
	12H	26.95	27.45	27.46	27.94	28.50	17.95	18.45	18.46	18.95	19.51
12H	4H	26.05	26.72	26.53	27.20	27.67	16.98	17.66	17.47	18.14	18.61
	6H	26.54	27.11	27.06	27.62	28.11	17.67	18.23	18.18	18.74	19.23
	8H	26.77	27.26	27.28	27.76	28.32	17.95	18.45	18.46	18.94	19.51