

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: P893069

Luminaire Tested: 2MB-SC3-LVRF-UNV-CC83-LOW-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893069
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-SC3-LVRF-UNV-CC83-LOW-4000K
Description: Selectable 2FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 80CRI, 4000K CCT
lumen setting
Light Source: -
Ballast/Driver: -

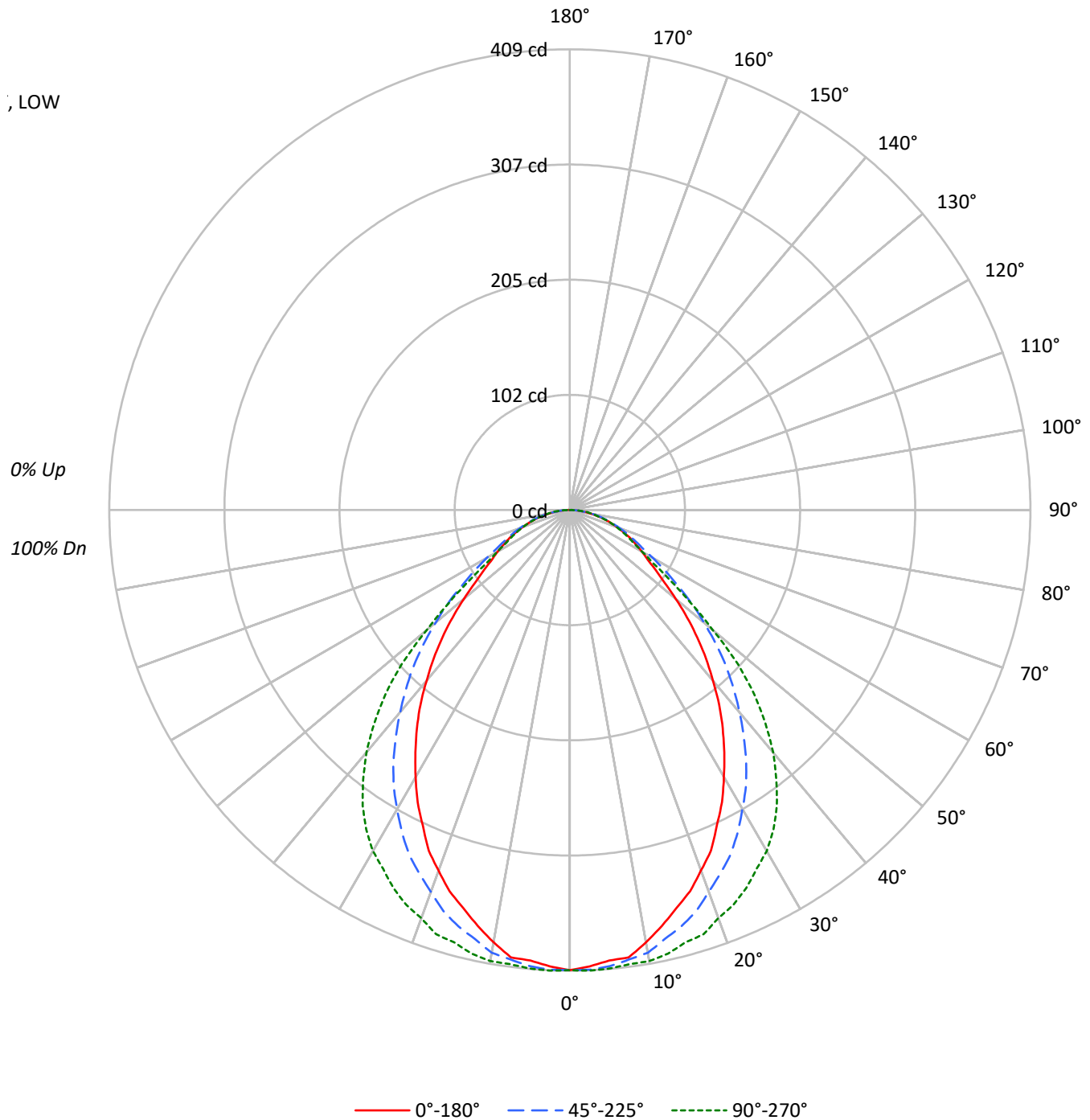
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 828.0 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Spacing Criteria (0/90/45): 1.04 / 1.26 / 1.21
Luminous Opening: Rectangular (W 0.38' 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

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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	100	97	100	97	94	96	94	91	92	90	89	89	89	89	87
2	102	94	88	83	99	93	87	82	89	84	80	86	82	79	83	80	77	77	77	77	75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	67	67	67	65
4	87	76	68	62	84	75	67	62	72	66	61	70	64	60	68	63	59	59	59	59	57
5	80	69	61	54	78	68	60	54	66	59	54	64	58	53	62	57	53	53	53	53	51
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	47	47	47	45
7	70	57	49	43	68	56	49	43	55	48	43	54	47	43	52	47	42	42	42	42	41
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	38	38	38	37
9	61	49	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	35	35	35	33
10	57	45	38	33	56	45	37	33	44	37	32	43	37	32	42	36	32	32	32	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5844	5844	5844
5°	5764	5839	5866
10°	5661	5797	5906
15°	5419	5665	5883
20°	5185	5490	5869
25°	4876	5329	5847
30°	4521	5065	5775
35°	4134	4768	5599
40°	3694	4379	5246
45°	3239	3971	4690
50°	2740	3463	3690
55°	2317	2911	2704
60°	2117	2432	2129
65°	2007	2136	1929
70°	1878	1974	1849
75°	1752	1857	1774
80°	1615	1738	1714
85°	1428	1543	1855

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4690 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.6	4.7
10°-20°	107.8	13.0
20°-30°	155.5	18.8
30°-40°	171.5	20.7
40°-50°	150.1	18.1
50°-60°	98.6	11.9
60°-70°	60.3	7.3
70°-80°	34.9	4.2
80°-90°	10.8	1.3
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°	301.8	36.5
0°-40°	473.3	57.2
0°-60°	722.0	87.2
0°-90°	828.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	828.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	408	408	408	408	408	
5°	401	406	407	409	408	38
15°	366	372	382	395	397	103
25°	309	319	338	358	370	142
35°	237	247	273	303	321	148
45°	160	170	196	220	232	123
55°	93	98	117	117	108	85
65°	59	59	63	60	57	59
75°	32	32	34	34	32	34
85°	9	9	9	10	11	10
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	408.5	408.5	408.5	408.5	408.5
2.5°	405.5	407.8	408.5	410.0	409.3
5°	401.4	405.5	406.6	408.9	408.5
7.5°	400.6	399.1	402.5	407.0	406.6
10°	389.7	392.7	399.1	405.9	406.6
12.5°	378.0	382.9	390.0	401.7	403.3
15°	365.9	371.9	382.5	394.9	397.2
17.5°	354.9	361.0	373.4	387.4	394.9
20°	340.6	348.9	360.6	378.0	385.5
22.5°	327.4	334.2	349.3	368.1	379.5
25°	308.9	319.4	337.6	357.9	370.4
27.5°	292.6	302.4	322.8	345.5	359.1
30°	273.7	284.7	306.6	331.9	349.6
32.5°	255.2	265.4	291.1	317.2	336.4
35°	236.7	246.9	273.0	303.2	320.6
37.5°	217.9	228.4	253.7	284.7	301.3
40°	197.8	209.9	234.5	265.1	280.9
42.5°	179.0	190.3	215.2	245.0	257.1
45°	160.1	169.9	196.3	220.5	231.8
47.5°	141.2	150.7	176.0	196.0	202.4
50°	123.1	131.8	155.6	168.0	165.8
52.5°	106.1	114.0	136.7	141.6	135.2
55°	92.9	97.8	116.7	117.0	108.4
57.5°	81.9	85.7	100.4	96.7	87.2
60°	74.0	75.1	85.0	80.8	74.4
62.5°	66.1	66.8	72.1	69.1	64.2
65°	59.3	59.3	63.1	60.4	57.0
67.5°	51.7	52.1	54.7	53.2	50.6
70°	44.9	44.9	47.2	47.2	44.2
72.5°	38.1	38.1	40.0	40.4	38.5
75°	31.7	31.7	33.6	34.4	32.1
77.5°	25.7	25.7	27.2	28.3	25.7
80°	19.6	19.6	21.1	22.3	20.8
82.5°	14.0	14.3	15.1	16.2	16.2
85°	8.7	8.7	9.4	10.2	11.3
87.5°	3.8	4.2	4.5	4.9	5.7
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	13.55	15.02	13.91	15.33	15.65	14.29	15.77	14.66	16.08	16.40
	3H	15.14	16.46	15.52	16.79	17.15	15.63	16.95	16.01	17.28	17.64
	4H	15.76	17.00	16.16	17.35	17.73	16.21	17.44	16.61	17.79	18.17
	6H	16.24	17.38	16.65	17.75	18.14	16.66	17.80	17.08	18.17	18.56
	8H	16.39	17.48	16.82	17.87	18.27	16.84	17.93	17.27	18.32	18.72
	12H	16.50	17.54	16.93	17.92	18.35	16.99	18.03	17.42	18.42	18.84
4H	2H	14.17	15.41	14.57	15.76	16.14	14.77	16.01	15.17	16.36	16.74
	3H	15.98	17.00	16.39	17.40	17.81	16.38	17.40	16.79	17.80	18.20
	4H	16.71	17.64	17.15	18.05	18.49	17.11	18.03	17.54	18.44	18.88
	6H	17.31	18.11	17.77	18.56	19.02	17.72	18.52	18.18	18.96	19.42
	8H	17.52	18.27	17.98	18.71	19.18	17.95	18.70	18.42	19.15	19.62
	12H	17.67	18.33	18.15	18.81	19.29	18.16	18.82	18.64	19.30	19.78
8H	4H	17.02	17.77	17.49	18.22	18.69	17.37	18.12	17.84	18.57	19.03
	6H	17.75	18.37	18.25	18.86	19.34	18.13	18.75	18.63	19.24	19.72
	8H	18.03	18.59	18.55	19.10	19.59	18.45	19.01	18.97	19.52	20.01
	12H	18.26	18.75	18.77	19.24	19.81	18.75	19.24	19.26	19.73	20.30
12H	4H	17.06	17.73	17.54	18.21	18.68	17.39	18.06	17.88	18.54	19.01
	6H	17.81	18.37	18.33	18.88	19.37	18.18	18.73	18.69	19.24	19.73
	8H	18.16	18.65	18.67	19.14	19.71	18.56	19.06	19.07	19.55	20.11