

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: P894238

Luminaire Tested: 4MB-SC3-LVR-UNV-CC93-LOW-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894238
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-8)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4MB-SC3-LVR-UNV-CC93-LOW-4000K
Description: Selectable 4FT MICROBAY LINEAR BAY with LOUVER, 90CRI, 4000K CCT, LOW lumen setting
Light Source: -
Ballast/Driver: -

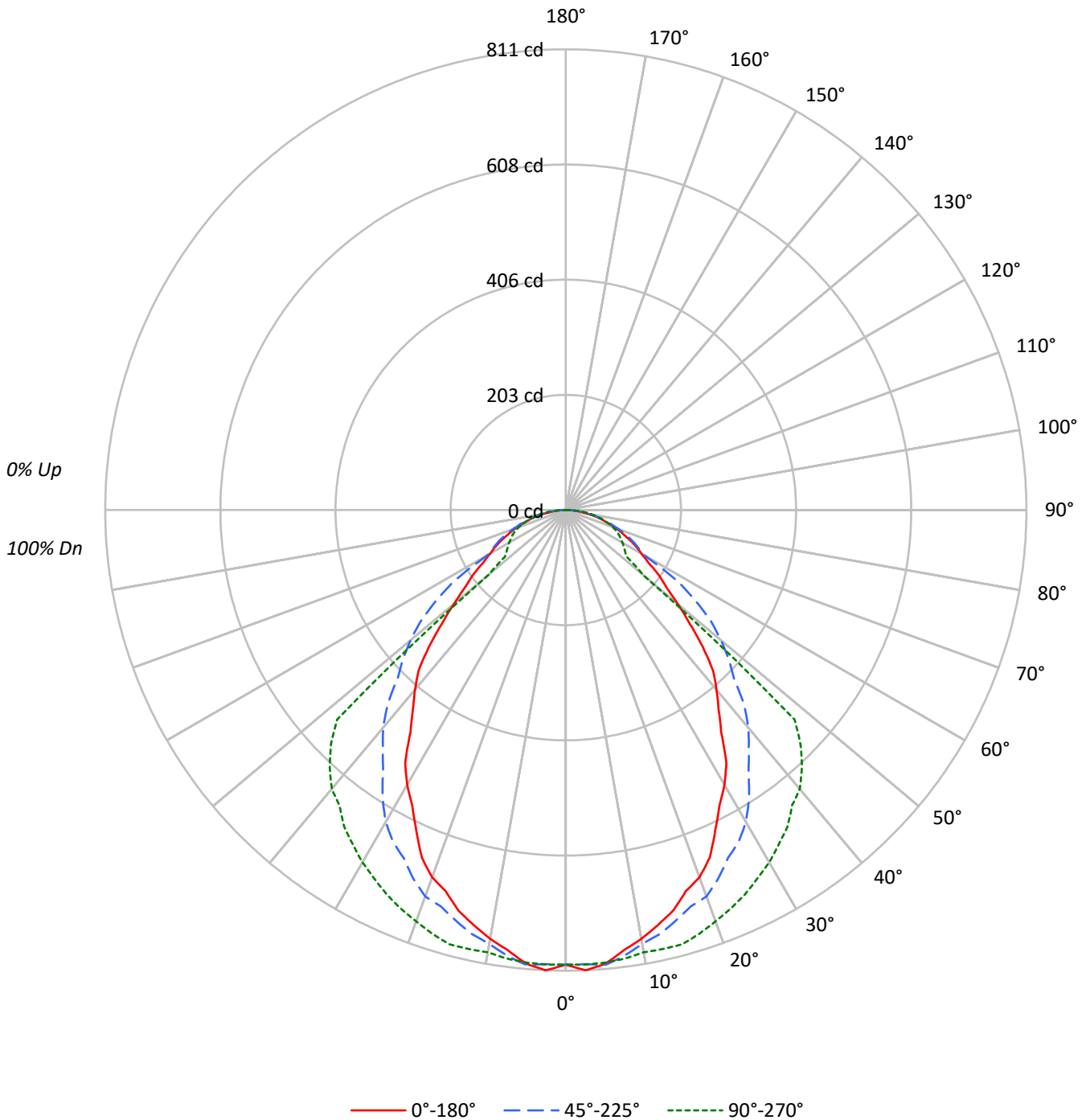
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1708.0 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.32 / 1.27
Luminous Opening: Rectangular (W 0.38' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 16.7
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	93	91	92	90	89	89	89	89	87
2	102	94	88	83	99	92	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	74	67	61	72	66	61	70	64	60	68	63	59	59	59	59	57
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	57	52	52	52	52	50
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	47	47	47	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	42	42	42	40
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	38	38	38	36
9	61	48	40	35	59	48	40	35	47	40	35	45	39	35	44	39	35	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5695	5695	5695
5°	5725	5739	5711
10°	5537	5602	5712
15°	5378	5513	5829
20°	5209	5481	5834
25°	4888	5305	5860
30°	4591	5209	5884
35°	4140	4871	5912
40°	3835	4647	5954
45°	3430	4212	5885
50°	2846	3945	1977
55°	2480	3463	1582
60°	2193	2257	1641
65°	2086	2195	1741
70°	1955	2074	1837
75°	1820	1955	1889
80°	1659	1844	1975
85°	1469	1567	2139

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5885 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.9	4.4
10°-20°	213.6	12.5
20°-30°	314.2	18.4
30°-40°	359.3	21.0
40°-50°	340.2	19.9
50°-60°	187.4	11.0
60°-70°	120.3	7.0
70°-80°	74.3	4.3
80°-90°	22.9	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°	603.6	35.3
0°-40°	962.9	56.4
0°-60°	1490.5	87.3
0°-90°	1708.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1708.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	800	800	800	800	800	
5°	802	808	804	804	800	75
15°	730	739	748	788	791	205
25°	623	650	676	720	746	287
35°	477	518	561	642	681	301
45°	341	373	419	537	585	261
55°	200	210	279	144	128	179
65°	124	128	130	116	103	123
75°	66	67	71	75	69	70
85°	18	18	19	22	26	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	800.4	800.4	800.4	800.4	800.4
2.5°	811.0	813.0	800.0	799.6	800.8
5°	801.6	808.1	803.6	803.6	799.6
7.5°	781.6	792.6	791.4	800.8	796.3
10°	766.4	775.4	775.4	800.0	790.6
12.5°	748.5	758.7	764.4	790.2	791.4
15°	730.1	739.1	748.5	787.7	791.4
17.5°	703.5	719.8	731.7	770.1	782.0
20°	688.0	697.8	723.9	755.0	770.5
22.5°	662.2	676.5	701.9	736.6	759.5
25°	622.6	650.4	675.7	719.8	746.4
27.5°	585.8	606.6	658.9	705.5	730.9
30°	558.8	575.1	634.0	684.7	716.2
32.5°	526.1	552.7	600.5	664.3	697.8
35°	476.6	517.5	560.8	642.2	680.6
37.5°	441.9	470.1	528.9	619.3	654.8
40°	412.9	438.6	500.3	590.7	641.0
42.5°	383.8	404.7	464.4	569.4	615.2
45°	340.9	373.2	418.6	537.1	584.9
47.5°	295.9	330.3	388.7	509.7	546.5
50°	257.1	284.5	356.4	455.4	178.6
52.5°	223.2	248.5	322.1	164.7	134.9
55°	199.9	209.7	279.2	143.9	127.5
57.5°	172.1	188.0	234.2	136.9	121.0
60°	154.1	161.1	158.6	130.0	115.3
62.5°	139.8	144.7	143.9	123.0	108.7
65°	123.9	127.9	130.4	116.1	103.4
67.5°	107.9	111.6	115.3	107.5	96.1
70°	94.0	96.5	99.7	97.3	88.3
72.5°	79.7	82.6	84.6	86.7	78.1
75°	66.2	67.4	71.1	74.8	68.7
77.5°	54.0	55.2	57.6	61.7	58.5
80°	40.5	41.7	45.0	48.2	48.2
82.5°	28.6	29.4	31.5	36.0	38.0
85°	18.0	18.0	19.2	22.1	26.2
87.5°	6.9	6.9	8.2	9.8	13.1
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	13.99	15.48	14.36	15.79	16.10	11.79	13.28	12.16	13.59	13.91
	3H	15.52	16.85	15.90	17.17	17.54	14.13	15.45	14.50	15.78	16.14
	4H	16.11	17.35	16.51	17.70	18.08	15.08	16.32	15.48	16.67	17.05
	6H	16.57	17.72	16.98	18.08	18.48	15.86	17.01	16.27	17.38	17.77
	8H	16.71	17.81	17.14	18.20	18.60	16.17	17.26	16.60	17.65	18.06
	12H	16.81	17.85	17.24	18.24	18.67	16.42	17.47	16.85	17.85	18.28
4H	2H	14.54	15.79	14.94	16.14	16.52	12.90	14.14	13.30	14.49	14.87
	3H	16.32	17.34	16.73	17.75	18.15	15.35	16.37	15.76	16.78	17.18
	4H	17.04	17.96	17.47	18.38	18.82	16.41	17.34	16.85	17.75	18.19
	6H	17.62	18.43	18.08	18.87	19.33	17.30	18.11	17.76	18.55	19.01
	8H	17.81	18.56	18.27	19.01	19.48	17.65	18.40	18.12	18.85	19.32
	12H	17.95	18.62	18.43	19.10	19.57	17.94	18.61	18.42	19.09	19.56
8H	4H	17.34	18.10	17.81	18.54	19.01	16.80	17.55	17.26	18.00	18.46
	6H	18.05	18.68	18.55	19.17	19.65	17.83	18.46	18.33	18.95	19.43
	8H	18.32	18.88	18.83	19.39	19.88	18.28	18.84	18.79	19.35	19.84
	12H	18.52	19.02	19.04	19.52	20.08	18.66	19.16	19.17	19.66	20.22
12H	4H	17.38	18.05	17.86	18.53	19.00	16.83	17.51	17.32	17.99	18.46
	6H	18.12	18.68	18.63	19.19	19.68	17.90	18.46	18.41	18.97	19.46
	8H	18.44	18.94	18.95	19.43	20.00	18.41	18.91	18.92	19.40	19.96