

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: P894275

Luminaire Tested: 4MB-SC3-LVRF-UNV-CC93-LOW-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894275
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-7)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4MB-SC3-LVRF-UNV-CC93-LOW-5000K
Description: Selectable 4FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 90CRI, 5000K CCT
lumen setting
Light Source: -
Ballast/Driver: -

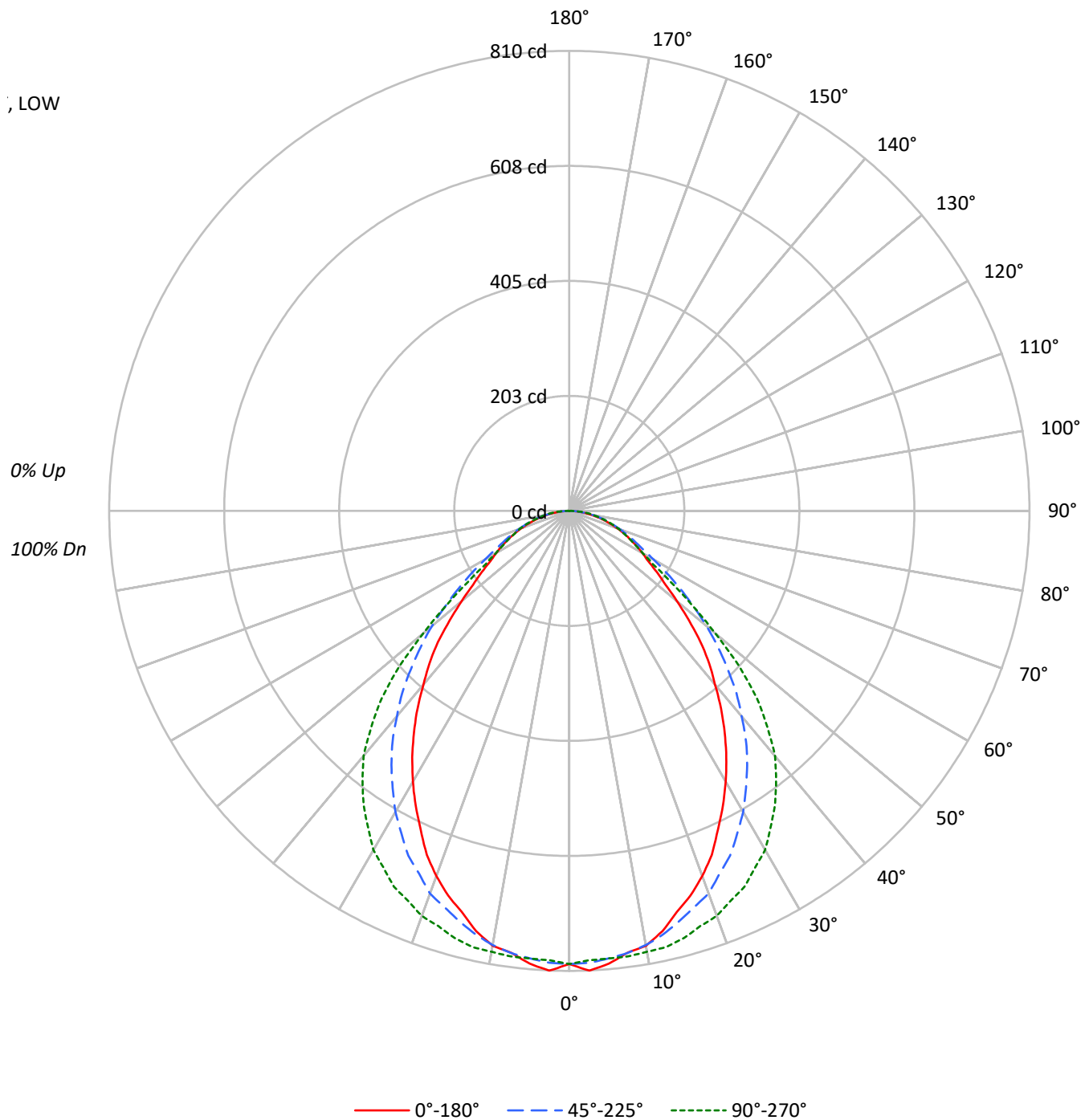
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1658.0 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.27 / 1.23
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	100	100	100	100	
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87	87	87	87	
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	75	75	75	75	
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	71	67	65	65	65	65	
4	87	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59	57	57	57	57	
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	56	52	50	50	50	50	
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	45	45	45	45	
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40	40	40	40	
8	65	52	44	39	63	52	44	39	50	44	39	49	43	38	48	42	38	36	36	36	36	
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	33	33	33	33	
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30	30	30	30	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5676	5676	5676
5°	5715	5650	5650
10°	5617	5608	5695
15°	5385	5510	5736
20°	5180	5428	5745
25°	4859	5260	5732
30°	4523	5027	5665
35°	4141	4742	5484
40°	3707	4385	5233
45°	3289	3970	4704
50°	2736	3494	3710
55°	2331	2944	2697
60°	2113	2432	2132
65°	1990	2130	1983
70°	1872	1976	1933
75°	1746	1880	1847
80°	1598	1733	1786
85°	1388	1527	2000

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4704 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.5	4.6
10°-20°	212.5	12.8
20°-30°	308.6	18.6
30°-40°	343.7	20.7
40°-50°	303.6	18.3
50°-60°	199.2	12.0
60°-70°	122.0	7.4
70°-80°	71.0	4.3
80°-90°	21.7	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°	596.7	36.0
0°-40°	940.4	56.7
0°-60°	1443.3	87.0
0°-90°	1658.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1658.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	798	798	798	798	798	
5°	800	801	791	799	791	75
15°	731	739	748	777	779	206
25°	619	634	670	713	730	285
35°	477	502	546	604	631	297
45°	327	347	394	448	468	250
55°	188	201	237	235	217	170
65°	118	120	126	123	118	118
75°	64	64	68	70	67	67
85°	17	18	19	21	24	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	797.8	797.8	797.8	797.8	797.8
2.5°	810.2	800.2	796.5	800.2	791.9
5°	800.2	800.7	791.1	799.0	791.1
7.5°	784.5	789.9	785.3	797.3	791.1
10°	777.4	777.8	776.2	788.6	788.2
12.5°	757.9	759.2	763.7	782.4	786.6
15°	731.0	739.3	748.0	777.4	778.7
17.5°	709.8	719.8	731.4	762.9	766.6
20°	684.1	688.2	716.9	744.7	758.8
22.5°	655.5	663.3	691.1	728.5	742.6
25°	619.0	633.9	670.0	712.7	730.1
27.5°	585.4	602.8	640.1	687.8	708.1
30°	550.5	570.4	611.9	658.8	689.5
32.5°	514.4	539.3	578.7	632.6	659.6
35°	476.7	502.4	545.9	603.6	631.4
37.5°	438.9	463.8	511.1	572.9	597.8
40°	399.1	423.6	472.1	534.7	563.4
42.5°	364.7	385.8	435.6	489.1	515.7
45°	326.9	346.8	394.5	447.6	467.5
47.5°	285.4	308.6	355.1	398.7	406.6
50°	247.2	271.3	315.7	341.0	335.2
52.5°	213.6	234.0	274.6	285.4	271.7
55°	187.9	201.2	237.3	235.2	217.4
57.5°	164.3	172.6	203.3	191.7	174.7
60°	148.5	152.2	170.9	160.1	149.8
62.5°	133.6	135.2	145.2	139.4	131.5
65°	118.2	120.3	126.5	122.8	117.8
67.5°	104.1	105.0	110.8	109.9	103.7
70°	90.0	91.3	95.0	96.7	92.9
72.5°	76.3	77.6	81.3	83.0	79.7
75°	63.5	64.3	68.4	69.7	67.2
77.5°	51.0	52.7	55.2	57.2	54.3
80°	39.0	39.8	42.3	44.8	43.6
82.5°	27.4	28.6	30.3	33.6	34.4
85°	17.0	17.8	18.7	21.2	24.5
87.5°	6.6	7.1	8.3	9.1	12.0
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	13.56	15.04	13.93	15.36	15.67	14.22	15.70	14.58	16.01	16.32
	3H	15.16	16.49	15.54	16.82	17.18	15.65	16.98	16.03	17.30	17.67
	4H	15.78	17.02	16.18	17.37	17.75	16.26	17.50	16.66	17.85	18.23
	6H	16.25	17.40	16.66	17.76	18.16	16.74	17.89	17.15	18.26	18.65
	8H	16.40	17.49	16.83	17.88	18.29	16.94	18.03	17.37	18.42	18.82
	12H	16.50	17.55	16.93	17.93	18.36	17.11	18.15	17.54	18.53	18.96
4H	2H	14.18	15.43	14.58	15.78	16.16	14.71	15.95	15.11	16.30	16.68
	3H	16.00	17.03	16.42	17.43	17.84	16.41	17.43	16.82	17.83	18.24
	4H	16.74	17.67	17.18	18.09	18.52	17.16	18.08	17.59	18.50	18.94
	6H	17.34	18.15	17.80	18.59	19.05	17.79	18.60	18.25	19.04	19.50
	8H	17.54	18.29	18.00	18.73	19.20	18.05	18.80	18.51	19.25	19.71
	12H	17.68	18.35	18.16	18.83	19.30	18.27	18.94	18.76	19.42	19.90
8H	4H	17.06	17.81	17.53	18.26	18.73	17.43	18.18	17.89	18.63	19.09
	6H	17.79	18.41	18.28	18.90	19.38	18.20	18.83	18.70	19.32	19.80
	8H	18.06	18.62	18.57	19.13	19.62	18.55	19.11	19.06	19.62	20.11
	12H	18.28	18.77	18.79	19.26	19.83	18.87	19.36	19.38	19.86	20.42
12H	4H	17.10	17.77	17.58	18.25	18.72	17.45	18.12	17.93	18.60	19.07
	6H	17.85	18.41	18.36	18.92	19.41	18.25	18.81	18.76	19.32	19.81
	8H	18.18	18.68	18.69	19.17	19.74	18.65	19.15	19.16	19.64	20.21