

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: P894239

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894239
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-5000K
Description: Selectable 4FT MICROBAY LINEAR BAY with LOUVER, 90CRI, 5000K CCT, LOW lumen setting
Light Source: -
Ballast/Driver: -

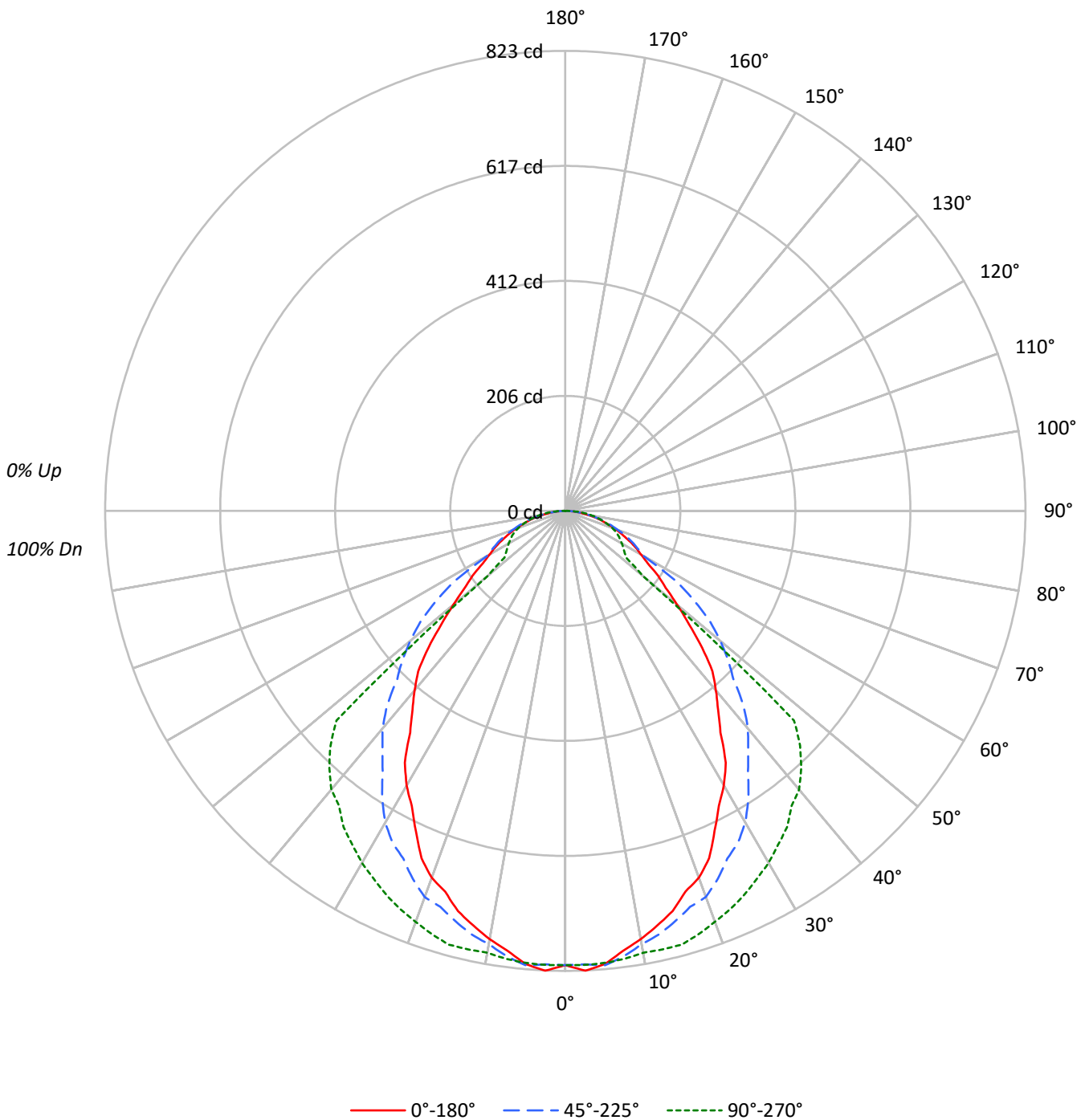
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1734.0 lumens
Efficiency: N/A
Efficacy: 103.8 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

TEST NUMBER: P894239
CATALOG NUMBER: 4MB-SC3-LVR-UNV-CC93-LOW-5000K

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°	5782	5782	5782
5°	5812	5827	5797
10°	5622	5687	5799
15°	5460	5597	5918
20°	5288	5565	5923
25°	4962	5385	5949
30°	4661	5288	5974
35°	4203	4946	6002
40°	3893	4718	6044
45°	3483	4276	5976
50°	2889	4006	2008
55°	2517	3515	1606
60°	2227	2291	1665
65°	2116	2229	1768
70°	1985	2107	1864
75°	1847	1985	1916
80°	1684	1868	2008
85°	1494	1592	2172

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5976 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.1	4.4
10°-20°	216.8	12.5
20°-30°	318.9	18.4
30°-40°	364.7	21.0
40°-50°	345.4	19.9
50°-60°	190.3	11.0
60°-70°	122.2	7.0
70°-80°	75.4	4.3
80°-90°	23.2	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°	612.8	35.3
0°-40°	977.6	56.4
0°-60°	1513.2	87.3
0°-90°	1734.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1734.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	813	813	813	813	813	
5°	814	820	816	816	812	76
15°	741	750	760	800	803	208
25°	632	660	686	731	758	291
35°	484	525	569	652	691	306
45°	346	379	425	545	594	265
55°	203	213	283	146	130	181
65°	126	130	132	118	105	124
75°	67	68	72	76	70	72
85°	18	18	20	22	27	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	812.6	812.6	812.6	812.6	812.6
2.5°	823.3	825.4	812.1	811.7	813.0
5°	813.8	820.4	815.9	815.9	811.7
7.5°	793.5	804.7	803.4	813.0	808.4
10°	778.1	787.2	787.2	812.1	802.6
12.5°	759.9	770.2	776.0	802.2	803.4
15°	741.2	750.3	759.9	799.7	803.4
17.5°	714.2	730.8	742.8	781.8	793.9
20°	698.4	708.4	735.0	766.5	782.3
22.5°	672.3	686.8	712.5	747.8	771.1
25°	632.0	660.3	686.0	730.8	757.8
27.5°	594.7	615.8	669.0	716.3	742.0
30°	567.3	583.9	643.7	695.1	727.1
32.5°	534.1	561.1	609.6	674.4	708.4
35°	483.9	525.4	569.4	652.0	691.0
37.5°	448.6	477.2	537.0	628.7	664.8
40°	419.1	445.3	508.0	599.7	650.7
42.5°	389.7	410.8	471.4	578.1	624.6
45°	346.1	378.9	425.0	545.3	593.9
47.5°	300.5	335.3	394.7	517.5	554.8
50°	261.0	288.8	361.9	462.3	181.4
52.5°	226.6	252.3	327.0	167.2	136.9
55°	202.9	212.9	283.4	146.1	129.5
57.5°	174.7	190.9	237.8	139.0	122.8
60°	156.5	163.5	161.0	132.0	117.0
62.5°	141.9	146.9	146.1	124.9	110.4
65°	125.7	129.9	132.4	117.9	105.0
67.5°	109.6	113.3	117.0	109.1	97.5
70°	95.4	97.9	101.3	98.8	89.6
72.5°	80.9	83.8	85.9	88.0	79.3
75°	67.2	68.5	72.2	75.9	69.7
77.5°	54.8	56.0	58.5	62.7	59.3
80°	41.1	42.3	45.6	49.0	49.0
82.5°	29.0	29.9	32.0	36.5	38.6
85°	18.3	18.3	19.5	22.4	26.6
87.5°	7.1	7.1	8.3	10.0	13.3
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	14.05	15.53	14.41	15.84	16.16	11.85	13.33	12.21	13.64	13.96
	3H	15.57	16.90	15.95	17.23	17.59	14.18	15.50	14.56	15.83	16.20
	4H	16.16	17.41	16.56	17.76	18.14	15.13	16.37	15.53	16.72	17.10
	6H	16.62	17.77	17.03	18.14	18.53	15.91	17.06	16.33	17.43	17.82
	8H	16.77	17.86	17.19	18.25	18.65	16.22	17.32	16.65	17.71	18.11
	12H	16.86	17.91	17.29	18.29	18.72	16.47	17.52	16.90	17.90	18.33
4H	2H	14.60	15.84	15.00	16.19	16.57	12.95	14.20	13.35	14.54	14.92
	3H	16.37	17.40	16.78	17.80	18.20	15.40	16.43	15.81	16.83	17.23
	4H	17.09	18.01	17.52	18.43	18.87	16.46	17.39	16.90	17.81	18.25
	6H	17.67	18.48	18.13	18.92	19.38	17.35	18.16	17.81	18.60	19.06
	8H	17.86	18.62	18.33	19.06	19.53	17.70	18.46	18.17	18.90	19.37
	12H	18.00	18.67	18.48	19.15	19.62	17.99	18.67	18.48	19.14	19.62
8H	4H	17.40	18.15	17.86	18.59	19.06	16.85	17.60	17.31	18.05	18.52
	6H	18.11	18.73	18.60	19.22	19.70	17.89	18.51	18.38	19.00	19.48
	8H	18.37	18.93	18.88	19.44	19.93	18.33	18.89	18.85	19.40	19.89
	12H	18.58	19.08	19.09	19.57	20.13	18.72	19.22	19.23	19.71	20.27
12H	4H	17.43	18.10	17.91	18.58	19.06	16.89	17.56	17.37	18.04	18.51
	6H	18.17	18.73	18.69	19.24	19.73	17.95	18.51	18.47	19.02	19.51
	8H	18.49	18.99	19.00	19.48	20.05	18.46	18.96	18.97	19.45	20.02