

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: P894273

Luminaire Tested: 4MB-SC3-LVRF-UNV-CC93-LOW-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894273
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-3500K
Description: Selectable 4FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 90CRI, 3500K CCT
lumen setting
Light Source: -
Ballast/Driver: -

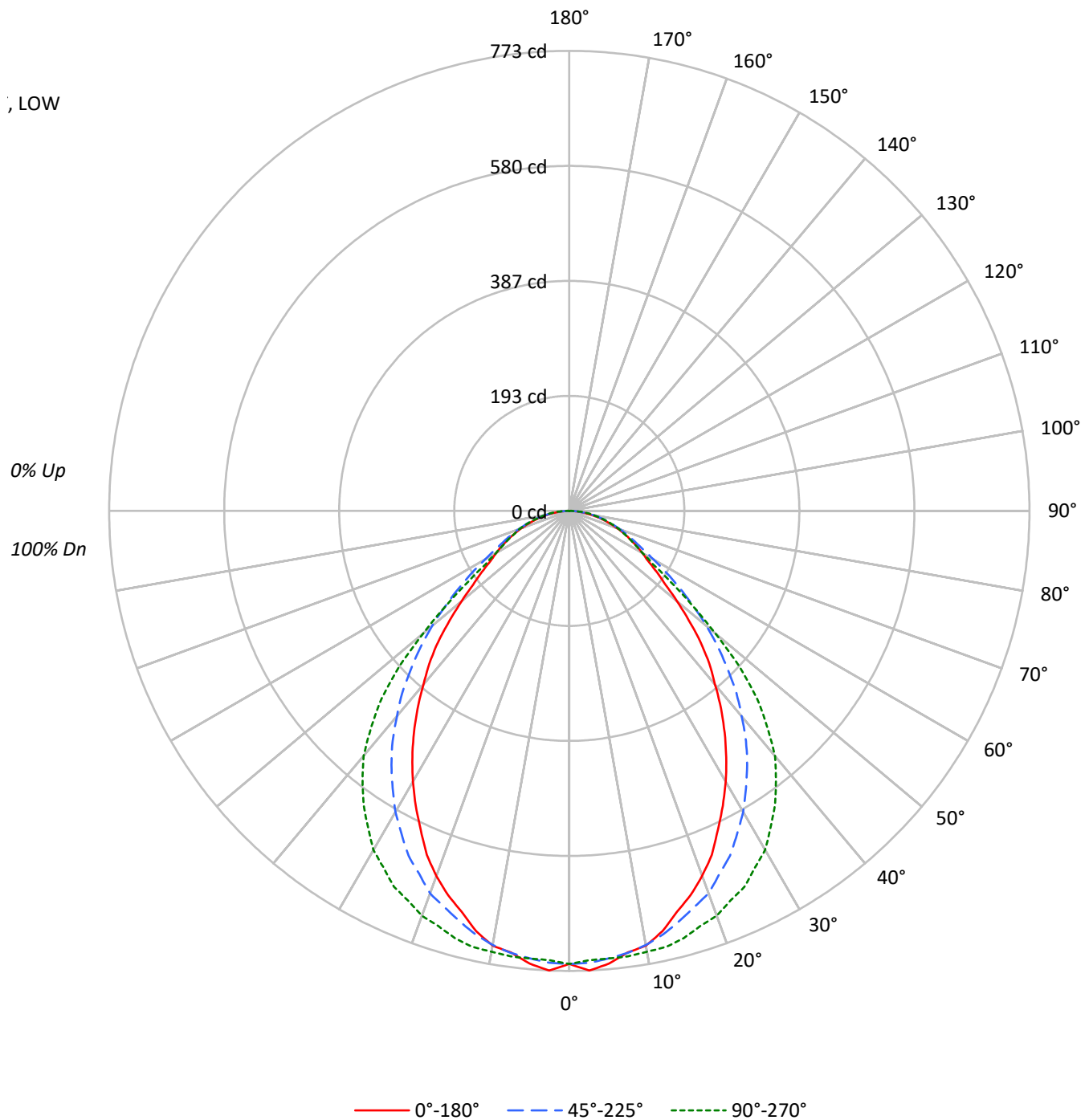
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1582.0 lumens
Efficiency: N/A
Efficacy: 94.7 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	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	70	80	74	69	77	72	68	75	71	67	67	67	67	65
4	87	76	68	62	84	74	67	61	72	66	60	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	56	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	44	39	49	43	38	48	42	38	38	38	38	36
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5416	5416	5416
5°	5454	5392	5392
10°	5359	5351	5434
15°	5138	5257	5473
20°	4942	5179	5482
25°	4637	5019	5469
30°	4316	4797	5405
35°	3950	4524	5233
40°	3537	4184	4992
45°	3138	3787	4489
50°	2611	3334	3540
55°	2224	2808	2573
60°	2016	2321	2033
65°	1899	2032	1892
70°	1787	1885	1845
75°	1666	1795	1762
80°	1524	1655	1705
85°	1322	1453	1910

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4489 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.1	4.6
10°-20°	202.8	12.8
20°-30°	294.5	18.6
30°-40°	327.9	20.7
40°-50°	289.7	18.3
50°-60°	190.1	12.0
60°-70°	116.4	7.4
70°-80°	67.7	4.3
80°-90°	20.7	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°	569.4	36.0
0°-40°	897.3	56.7
0°-60°	1377.1	87.0
0°-90°	1582.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1582.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	761	761	761	761	761	
5°	764	764	755	762	755	72
15°	698	705	714	742	743	197
25°	591	605	639	680	697	272
35°	455	479	521	576	602	284
45°	312	331	376	427	446	239
55°	179	192	226	224	207	163
65°	113	115	121	117	112	112
75°	61	61	65	66	64	64
85°	16	17	18	20	23	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	761.2	761.2	761.2	761.2	761.2
2.5°	773.1	763.6	760.0	763.6	755.6
5°	763.6	764.0	754.9	762.4	754.9
7.5°	748.5	753.7	749.3	760.8	754.9
10°	741.8	742.2	740.6	752.5	752.1
12.5°	723.2	724.4	728.7	746.5	750.5
15°	697.5	705.4	713.7	741.8	743.0
17.5°	677.3	686.8	697.9	727.9	731.5
20°	652.7	656.7	684.0	710.5	724.0
22.5°	625.4	632.9	659.5	695.1	708.5
25°	590.6	604.8	639.3	680.0	696.7
27.5°	558.5	575.1	610.8	656.3	675.7
30°	525.3	544.3	583.9	628.6	657.9
32.5°	490.8	514.6	552.2	603.6	629.4
35°	454.8	479.4	520.9	575.9	602.5
37.5°	418.8	442.5	487.7	546.6	570.4
40°	380.8	404.1	450.5	510.2	537.5
42.5°	347.9	368.1	415.6	466.7	492.0
45°	311.9	330.9	376.4	427.1	446.1
47.5°	272.3	294.5	338.8	380.4	387.9
50°	235.9	258.9	301.2	325.4	319.8
52.5°	203.9	223.2	262.0	272.3	259.3
55°	179.3	192.0	226.4	224.4	207.4
57.5°	156.7	164.7	194.0	182.9	166.6
60°	141.7	145.3	163.1	152.8	142.9
62.5°	127.5	129.0	138.5	133.0	125.5
65°	112.8	114.8	120.7	117.2	112.4
67.5°	99.4	100.1	105.7	104.9	99.0
70°	85.9	87.1	90.6	92.2	88.7
72.5°	72.8	74.0	77.6	79.2	76.0
75°	60.6	61.4	65.3	66.5	64.1
77.5°	48.7	50.3	52.6	54.6	51.9
80°	37.2	38.0	40.4	42.7	41.6
82.5°	26.1	27.3	28.9	32.1	32.9
85°	16.2	17.0	17.8	20.2	23.4
87.5°	6.3	6.7	7.9	8.7	11.5
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	13.40	14.88	13.76	15.19	15.51	14.05	15.53	14.42	15.85	16.16
	3H	15.00	16.33	15.38	16.65	17.02	15.49	16.81	15.87	17.14	17.50
	4H	15.62	16.86	16.02	17.21	17.59	16.09	17.33	16.49	17.68	18.06
	6H	16.09	17.24	16.50	17.60	17.99	16.58	17.73	16.99	18.09	18.49
	8H	16.24	17.33	16.67	17.72	18.12	16.78	17.87	17.20	18.26	18.66
	12H	16.34	17.38	16.77	17.77	18.20	16.95	17.99	17.38	18.37	18.80
4H	2H	14.02	15.26	14.42	15.61	15.99	14.54	15.79	14.94	16.14	16.52
	3H	15.84	16.87	16.25	17.27	17.67	16.24	17.27	16.65	17.67	18.07
	4H	16.58	17.51	17.01	17.92	18.36	17.00	17.92	17.43	18.34	18.78
	6H	17.18	17.98	17.64	18.43	18.89	17.63	18.44	18.09	18.88	19.34
	8H	17.37	18.13	17.84	18.57	19.04	17.89	18.64	18.35	19.08	19.55
	12H	17.52	18.19	18.00	18.67	19.14	18.11	18.78	18.59	19.26	19.73
8H	4H	16.90	17.65	17.36	18.10	18.56	17.27	18.02	17.73	18.46	18.93
	6H	17.62	18.25	18.12	18.74	19.22	18.04	18.66	18.54	19.15	19.63
	8H	17.90	18.46	18.41	18.97	19.45	18.39	18.95	18.90	19.46	19.95
	12H	18.11	18.61	18.62	19.10	19.67	18.70	19.20	19.21	19.69	20.26
12H	4H	16.93	17.61	17.42	18.08	18.56	17.29	17.96	17.77	18.44	18.91
	6H	17.69	18.25	18.20	18.76	19.25	18.09	18.65	18.60	19.16	19.65
	8H	18.02	18.52	18.53	19.01	19.57	18.49	18.99	19.00	19.48	20.05