

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: P894248

Luminaire Tested: 4MB-SC3-LVRA-UNV-CC83-LOW-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894248
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-26)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4MB-SC3-LVRA-UNV-CC83-LOW-5000K
Description: Selectable 4FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 80CRI, 5000K CCT, LO lumen setting
Light Source: -
Ballast/Driver: -

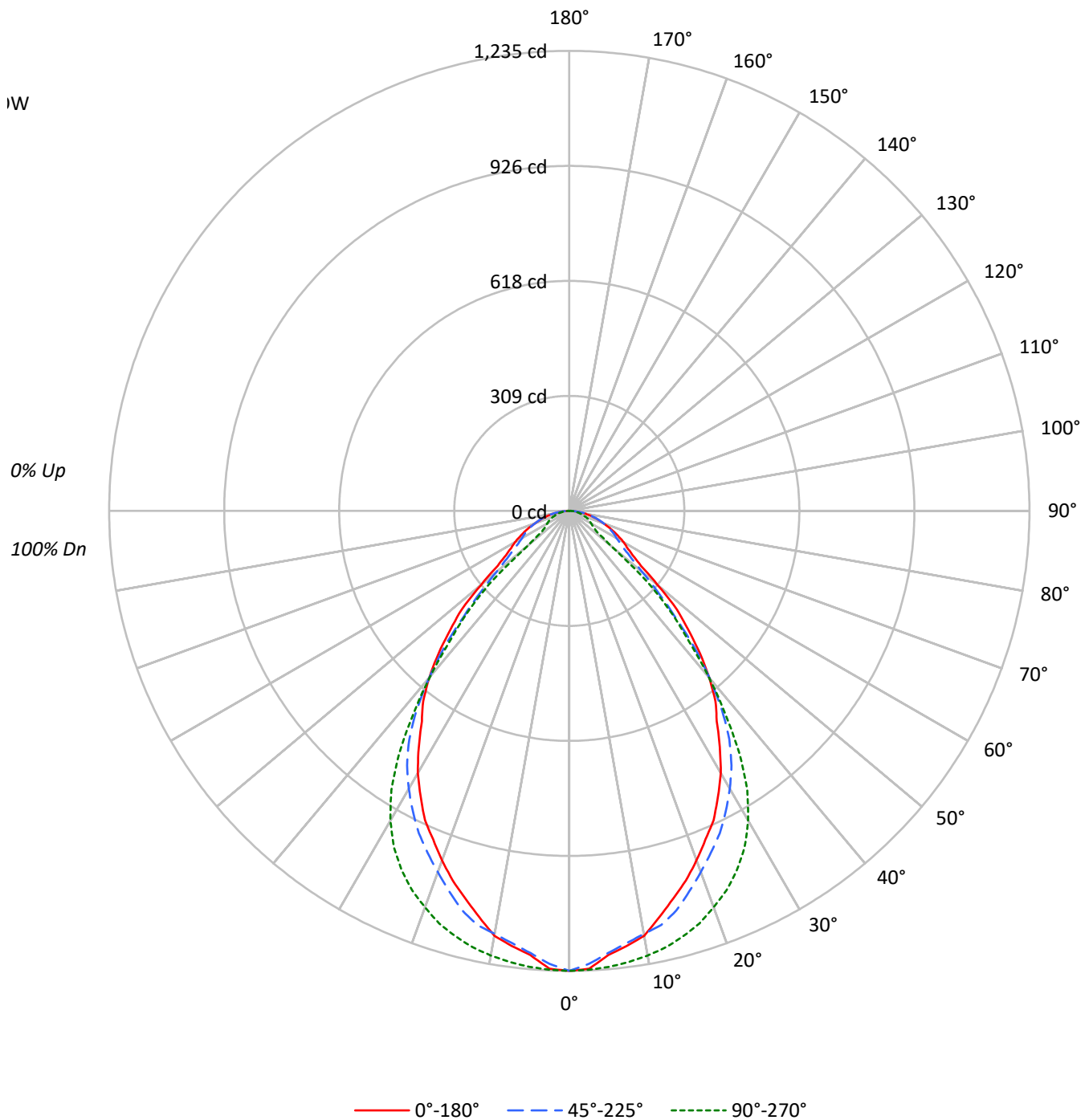
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2004.0 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.16 / 1.12
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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	90	90	90	88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	80	80	80	78
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	71	71	71	69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	63	63	63	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	57	57	57	55
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	52	52	52	50
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	47	47	47	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	43	43	43	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	40	40	40	38
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	37	37	37	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8786	8786	8786
5°	8548	8510	8776
10°	8367	8330	8756
15°	7935	8178	8707
20°	7559	7815	8573
25°	7190	7497	8355
30°	6680	7078	7888
35°	5990	6504	6919
40°	5427	5439	5409
45°	4537	4019	3919
50°	3427	2828	1603
55°	2578	2263	1011
60°	2396	2083	973
65°	2229	2079	975
70°	2039	2039	959
75°	1933	1985	926
80°	1786	1877	951
85°	1559	1633	1037

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 4644 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.1	5.7
10°-20°	314.3	15.7
20°-30°	445.6	22.2
30°-40°	459.1	22.9
40°-50°	320.7	16.0
50°-60°	153.9	7.7
60°-70°	108.0	5.4
70°-80°	67.5	3.4
80°-90°	20.9	1.0
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°	874.0	43.6
0°-40°	1333.1	66.5
0°-60°	1807.7	90.2
0°-90°	2004.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2004.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1235	1235	1235	1235	1235	
5°	1197	1195	1192	1223	1229	113
15°	1077	1085	1110	1142	1182	303
25°	916	925	955	1020	1064	419
35°	690	708	749	764	797	435
45°	451	462	399	379	390	347
55°	208	198	182	117	82	195
65°	132	124	124	94	58	131
75°	70	69	72	62	34	74
85°	19	19	20	20	13	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1234.8	1234.8	1234.8	1234.8	1234.8
2.5°	1230.0	1226.2	1217.0	1233.8	1232.6
5°	1196.9	1195.3	1191.5	1222.7	1228.7
7.5°	1178.1	1175.0	1170.5	1204.9	1221.7
10°	1158.1	1161.9	1153.0	1184.5	1211.9
12.5°	1116.7	1126.9	1139.0	1163.5	1199.8
15°	1077.2	1085.2	1110.3	1142.2	1182.0
17.5°	1040.3	1049.6	1071.2	1118.9	1161.3
20°	998.3	1011.1	1032.1	1093.2	1132.3
22.5°	955.0	966.8	993.2	1058.8	1102.4
25°	915.9	925.1	955.0	1019.6	1064.2
27.5°	864.0	881.2	909.5	971.9	1018.7
30°	813.1	827.7	861.5	914.0	960.1
32.5°	751.7	773.0	810.2	850.3	888.9
35°	689.6	708.4	748.8	764.4	796.6
37.5°	644.4	649.5	672.4	670.5	688.7
40°	584.3	594.5	585.6	561.7	582.4
42.5°	519.4	531.5	495.5	467.8	475.1
45°	450.9	461.5	399.4	379.0	389.5
47.5°	391.8	390.8	322.1	308.4	293.7
50°	309.6	319.8	255.5	230.1	144.8
52.5°	241.9	245.7	210.7	147.0	95.2
55°	207.8	197.6	182.4	116.8	81.5
57.5°	184.6	171.9	161.7	108.5	74.5
60°	168.4	154.0	146.4	103.1	68.4
62.5°	149.9	138.8	135.9	98.3	63.0
65°	132.4	123.8	123.5	93.9	57.9
67.5°	114.9	110.1	111.4	88.5	52.2
70°	98.0	97.1	98.0	81.5	46.1
72.5°	83.7	82.7	85.3	72.6	39.5
75°	70.3	69.4	72.2	62.4	33.7
77.5°	56.0	56.6	58.6	51.9	28.3
80°	43.6	43.6	45.8	40.7	23.2
82.5°	31.2	31.5	32.8	29.9	18.1
85°	19.1	19.1	20.0	19.7	12.7
87.5°	6.4	7.3	8.6	9.2	6.4
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	13.20	14.55	13.56	14.86	15.18	9.53	10.88	9.89	11.19	11.51
	3H	14.94	16.14	15.32	16.47	16.84	11.51	12.71	11.88	13.04	13.41
	4H	15.61	16.73	16.01	17.09	17.47	12.21	13.34	12.61	13.69	14.07
	6H	16.11	17.15	16.53	17.52	17.92	12.73	13.77	13.15	14.14	14.53
	8H	16.29	17.27	16.71	17.66	18.07	12.92	13.90	13.35	14.29	14.70
	12H	16.40	17.34	16.83	17.72	18.15	13.06	14.00	13.49	14.38	14.81
4H	2H	13.73	14.86	14.13	15.21	15.59	11.15	12.28	11.55	12.63	13.01
	3H	15.71	16.64	16.12	17.04	17.44	13.33	14.26	13.74	14.66	15.07
	4H	16.51	17.34	16.94	17.76	18.20	14.21	15.05	14.64	15.46	15.91
	6H	17.15	17.87	17.61	18.32	18.78	14.85	15.58	15.31	16.02	16.49
	8H	17.37	18.05	17.84	18.49	18.96	15.06	15.74	15.53	16.18	16.65
	12H	17.52	18.12	18.01	18.61	19.08	15.22	15.82	15.70	16.30	16.77
8H	4H	16.79	17.47	17.26	17.91	18.38	14.86	15.54	15.33	15.98	16.45
	6H	17.57	18.13	18.07	18.62	19.10	15.72	16.27	16.22	16.77	17.25
	8H	17.88	18.38	18.40	18.89	19.38	16.05	16.55	16.57	17.06	17.55
	12H	18.11	18.55	18.62	19.05	19.62	16.31	16.75	16.82	17.24	17.81
12H	4H	16.81	17.41	17.29	17.89	18.36	14.93	15.53	15.42	16.01	16.49
	6H	17.63	18.13	18.15	18.64	19.13	15.86	16.36	16.38	16.87	17.36
	8H	17.99	18.43	18.50	18.93	19.50	16.27	16.71	16.78	17.20	17.77