

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: P893061

Luminaire Tested: 2MB-SC3-LVRA-UNV-CC93-LOW-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893061
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: 2MB-SC3-LVRA-UNV-CC93-LOW-5000K
Description: Selectable 2FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 90CRI, 5000K CCT, LO lumen setting
Light Source: -
Ballast/Driver: -

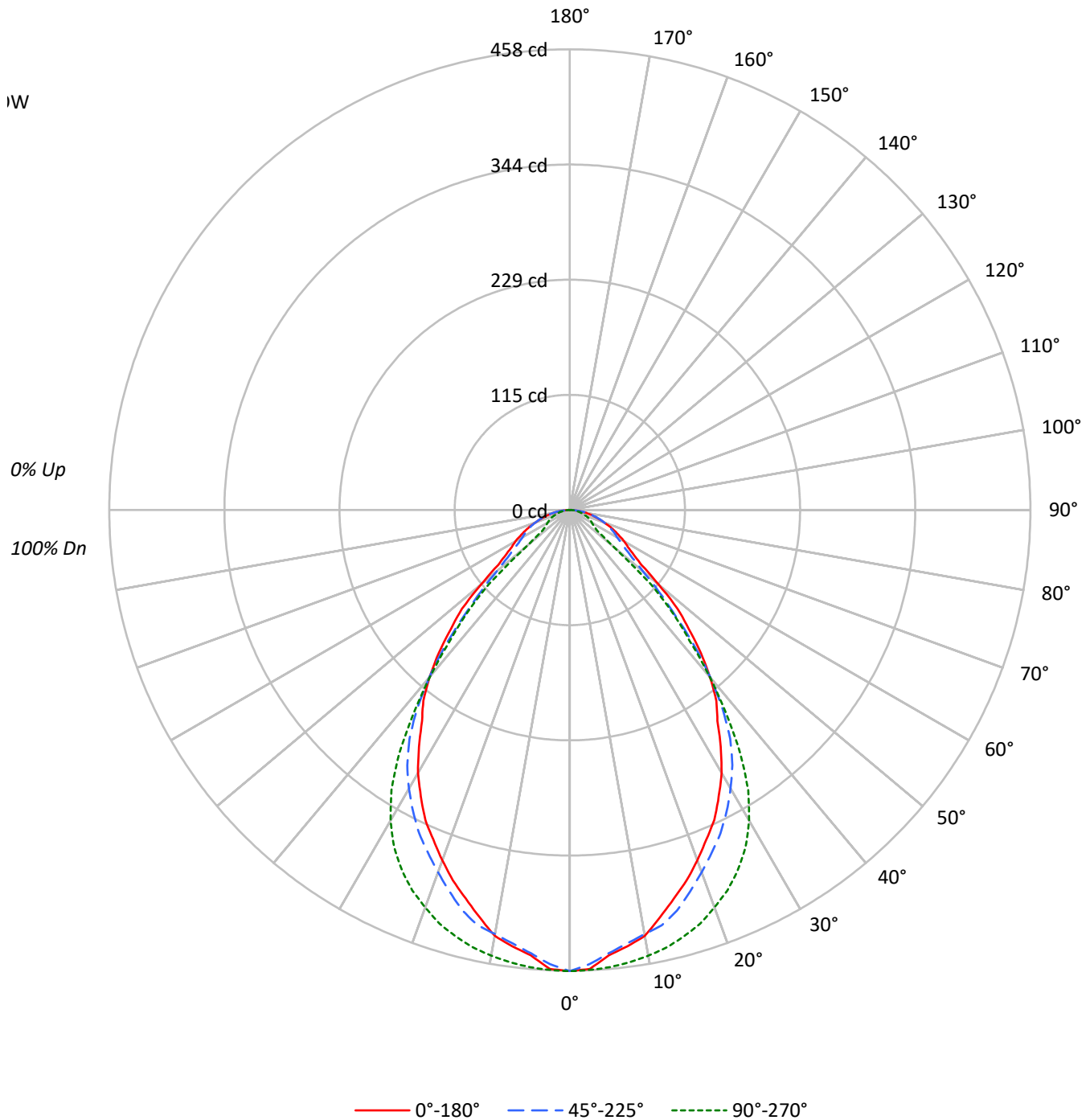
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 744.0 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.16 / 1.12
Luminous Opening: Rectangular (W 0.38' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 6.9
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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88	88	88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78	78	78
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69	69	69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62	62	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55	55	55
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	50	50	50
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	45	45	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41	41	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38	38	38
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	35	35	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6558	6558	6558
5°	6382	6353	6551
10°	6245	6219	6535
15°	5923	6105	6499
20°	5642	5834	6400
25°	5367	5597	6236
30°	4987	5283	5889
35°	4471	4855	5164
40°	4050	4060	4037
45°	3387	3000	2925
50°	2559	2112	1197
55°	1925	1688	753
60°	1788	1554	727
65°	1665	1550	728
70°	1522	1522	715
75°	1443	1481	691
80°	1335	1400	708
85°	1165	1215	771

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 3466 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.3	5.7
10°-20°	116.7	15.7
20°-30°	165.5	22.2
30°-40°	170.5	22.9
40°-50°	119.1	16.0
50°-60°	57.1	7.7
60°-70°	40.1	5.4
70°-80°	25.1	3.4
80°-90°	7.7	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°	324.5	43.6
0°-40°	494.9	66.5
0°-60°	671.1	90.2
0°-90°	744.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	744.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	458	458	458	458	458	
5°	444	444	442	454	456	42
15°	400	403	412	424	439	113
25°	340	344	355	379	395	155
35°	256	263	278	284	296	161
45°	167	171	148	141	145	129
55°	77	73	68	43	30	72
65°	49	46	46	35	22	49
75°	26	26	27	23	12	28
85°	7	7	7	7	5	8
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	458.4	458.4	458.4	458.4	458.4
2.5°	456.6	455.2	451.8	458.1	457.6
5°	444.4	443.8	442.4	453.9	456.2
7.5°	437.4	436.2	434.6	447.3	453.6
10°	429.9	431.4	428.1	439.8	449.9
12.5°	414.6	418.4	422.9	432.0	445.4
15°	399.9	402.9	412.2	424.0	438.8
17.5°	386.2	389.7	397.7	415.4	431.1
20°	370.6	375.4	383.2	405.8	420.4
22.5°	354.6	358.9	368.7	393.1	409.3
25°	340.0	343.5	354.6	378.6	395.1
27.5°	320.8	327.2	337.7	360.8	378.2
30°	301.9	307.3	319.8	339.3	356.5
32.5°	279.1	287.0	300.8	315.7	330.0
35°	256.0	263.0	278.0	283.8	295.7
37.5°	239.3	241.1	249.7	248.9	255.7
40°	216.9	220.7	217.4	208.5	216.2
42.5°	192.8	197.3	184.0	173.7	176.4
45°	167.4	171.3	148.3	140.7	144.6
47.5°	145.4	145.1	119.6	114.5	109.1
50°	115.0	118.7	94.9	85.4	53.8
52.5°	89.8	91.2	78.2	54.6	35.3
55°	77.2	73.4	67.7	43.4	30.2
57.5°	68.5	63.8	60.0	40.3	27.6
60°	62.5	57.2	54.3	38.3	25.4
62.5°	55.6	51.5	50.4	36.5	23.4
65°	49.2	46.0	45.8	34.9	21.5
67.5°	42.7	40.9	41.4	32.8	19.4
70°	36.4	36.0	36.4	30.2	17.1
72.5°	31.1	30.7	31.7	26.9	14.7
75°	26.1	25.8	26.8	23.2	12.5
77.5°	20.8	21.0	21.7	19.3	10.5
80°	16.2	16.2	17.0	15.1	8.6
82.5°	11.6	11.7	12.2	11.1	6.7
85°	7.1	7.1	7.4	7.3	4.7
87.5°	2.4	2.7	3.2	3.4	2.4
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	12.18	13.53	12.55	13.85	14.16	8.51	9.87	8.88	10.18	10.49
	3H	13.92	15.13	14.30	15.46	15.82	10.49	11.69	10.87	12.02	12.39
	4H	14.59	15.72	14.99	16.07	16.45	11.19	12.32	11.59	12.67	13.05
	6H	15.10	16.14	15.51	16.51	16.90	11.71	12.75	12.13	13.12	13.52
	8H	15.27	16.26	15.70	16.65	17.05	11.90	12.88	12.33	13.27	13.68
	12H	15.38	16.32	15.81	16.71	17.14	12.04	12.98	12.47	13.36	13.79
4H	2H	12.71	13.84	13.11	14.19	14.57	10.13	11.26	10.53	11.61	11.99
	3H	14.69	15.62	15.10	16.02	16.42	12.31	13.24	12.72	13.64	14.05
	4H	15.49	16.33	15.93	16.75	17.19	13.19	14.03	13.63	14.45	14.89
	6H	16.13	16.86	16.60	17.30	17.77	13.83	14.56	14.30	15.00	15.47
	8H	16.36	17.03	16.82	17.48	17.95	14.04	14.72	14.51	15.17	15.64
	12H	16.51	17.11	16.99	17.59	18.06	14.20	14.80	14.68	15.28	15.75
8H	4H	15.77	16.45	16.24	16.90	17.37	13.84	14.52	14.31	14.96	15.43
	6H	16.56	17.11	17.06	17.61	18.09	14.70	15.26	15.20	15.75	16.23
	8H	16.86	17.36	17.38	17.87	18.36	15.03	15.53	15.55	16.04	16.53
	12H	17.10	17.54	17.61	18.03	18.60	15.29	15.73	15.80	16.22	16.79
12H	4H	15.79	16.39	16.28	16.87	17.35	13.91	14.51	14.40	15.00	15.47
	6H	16.61	17.11	17.13	17.62	18.12	14.84	15.34	15.36	15.85	16.34
	8H	16.98	17.42	17.49	17.91	18.48	15.25	15.69	15.77	16.19	16.76