

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: P893052

Luminaire Tested: 2MB-SC3-LVRA-UNV-CC83-LOW-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893052
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-CC83-LOW-5000K
Description: Selectable 2FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 80CRI, 5000K CCT, LO lumen setting
Light Source: -
Ballast/Driver: -

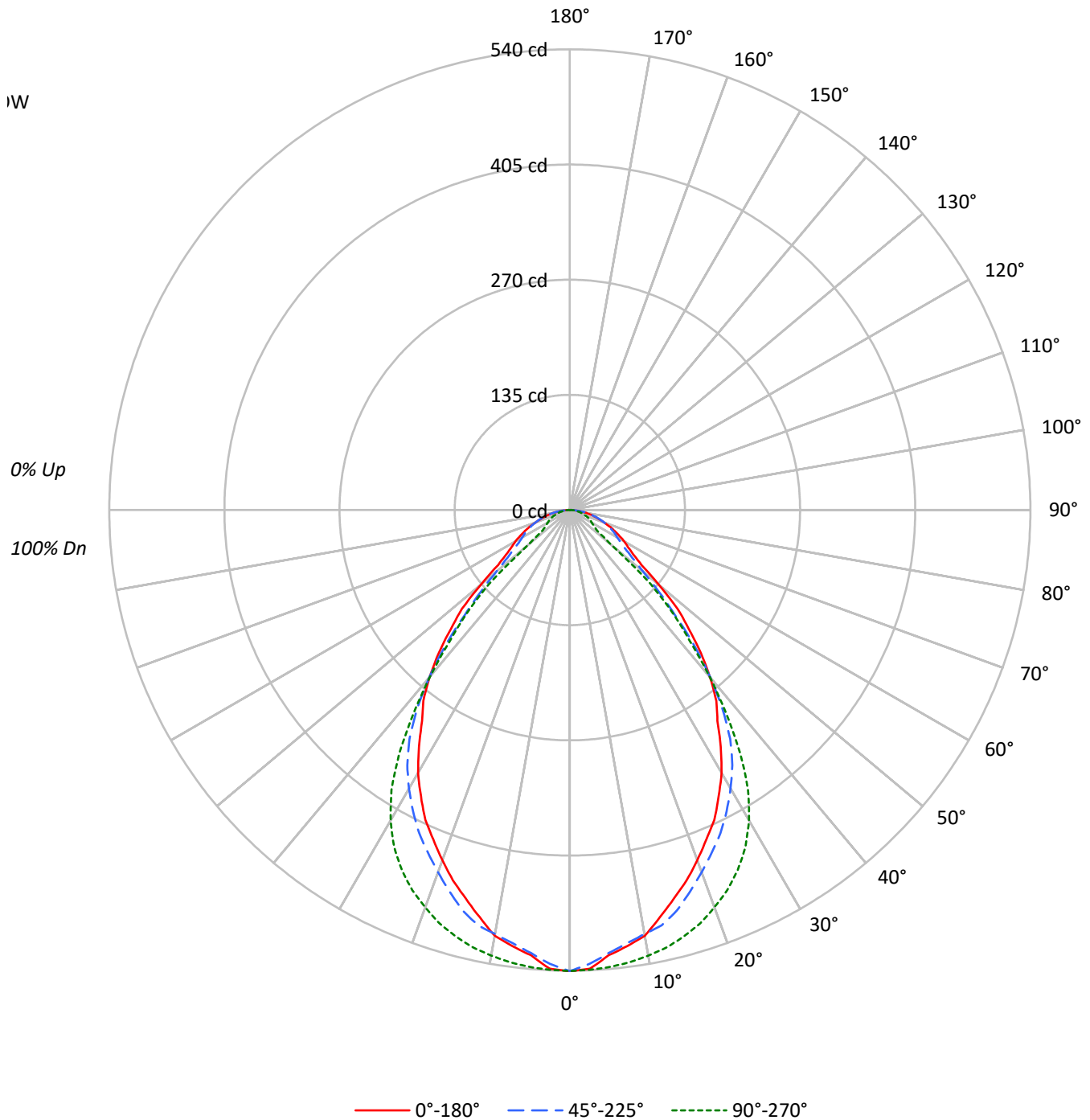
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 877.0 lumens
Efficiency: N/A
Efficacy: 127.1 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	102	100	
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	90	88	
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	80	78	
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	71	69	
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	63	62	
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	57	55	
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	52	50	
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	47	45	
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	43	41	
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	40	38	
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	37	35	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7731	7731	7731
5°	7522	7487	7721
10°	7362	7330	7703
15°	6981	7196	7661
20°	6651	6876	7543
25°	6326	6598	7351
30°	5877	6227	6941
35°	5271	5723	6088
40°	4775	4786	4760
45°	3992	3536	3449
50°	3016	2488	1411
55°	2267	1990	890
60°	2109	1834	855
65°	1960	1828	856
70°	1794	1794	845
75°	1702	1747	818
80°	1573	1656	840
85°	1379	1444	919

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 4085 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.9	5.7
10°-20°	137.5	15.7
20°-30°	195.0	22.2
30°-40°	200.9	22.9
40°-50°	140.3	16.0
50°-60°	67.3	7.7
60°-70°	47.2	5.4
70°-80°	29.5	3.4
80°-90°	9.1	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°	382.5	43.6
0°-40°	583.4	66.5
0°-60°	791.1	90.2
0°-90°	877.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	877.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	540	540	540	540	540	
5°	524	523	521	535	538	50
15°	471	475	486	500	517	133
25°	401	405	418	446	466	183
35°	302	310	328	334	349	190
45°	197	202	175	166	170	152
55°	91	86	80	51	36	85
65°	58	54	54	41	25	57
75°	31	30	32	27	15	32
85°	8	8	9	9	6	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	540.4	540.4	540.4	540.4	540.4
2.5°	538.3	536.6	532.6	540.0	539.4
5°	523.8	523.1	521.4	535.1	537.7
7.5°	515.6	514.2	512.2	527.3	534.7
10°	506.8	508.5	504.6	518.4	530.3
12.5°	488.7	493.2	498.4	509.2	525.1
15°	471.4	474.9	485.9	499.8	517.3
17.5°	455.3	459.3	468.8	489.7	508.2
20°	436.9	442.5	451.7	478.4	495.5
22.5°	418.0	423.1	434.7	463.4	482.4
25°	400.8	404.9	418.0	446.2	465.7
27.5°	378.1	385.6	398.0	425.3	445.8
30°	355.8	362.2	377.0	400.0	420.2
32.5°	329.0	338.3	354.6	372.1	389.0
35°	301.8	310.0	327.7	334.5	348.6
37.5°	282.0	284.3	294.3	293.4	301.4
40°	255.7	260.2	256.3	245.8	254.9
42.5°	227.3	232.6	216.8	204.7	207.9
45°	197.3	201.9	174.8	165.9	170.5
47.5°	171.4	171.0	140.9	135.0	128.5
50°	135.5	140.0	111.8	100.7	63.4
52.5°	105.8	107.5	92.2	64.3	41.6
55°	90.9	86.5	79.8	51.1	35.7
57.5°	80.8	75.2	70.7	47.5	32.6
60°	73.7	67.4	64.1	45.1	29.9
62.5°	65.6	60.7	59.5	43.0	27.6
65°	57.9	54.2	54.0	41.1	25.3
67.5°	50.3	48.2	48.7	38.7	22.8
70°	42.9	42.5	42.9	35.7	20.2
72.5°	36.6	36.2	37.3	31.8	17.3
75°	30.8	30.4	31.6	27.3	14.8
77.5°	24.5	24.8	25.6	22.7	12.4
80°	19.1	19.1	20.1	17.8	10.2
82.5°	13.6	13.8	14.3	13.1	7.9
85°	8.4	8.4	8.8	8.6	5.6
87.5°	2.8	3.2	3.8	4.0	2.8
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	12.75	14.11	13.12	14.42	14.73	9.09	10.44	9.45	10.75	11.07
	3H	14.49	15.70	14.87	16.03	16.39	11.06	12.27	11.44	12.60	12.96
	4H	15.16	16.29	15.57	16.64	17.02	11.77	12.89	12.17	13.24	13.63
	6H	15.67	16.71	16.08	17.08	17.47	12.29	13.33	12.70	13.70	14.09
	8H	15.84	16.83	16.27	17.22	17.62	12.47	13.46	12.90	13.85	14.25
	12H	15.95	16.89	16.38	17.28	17.71	12.61	13.56	13.05	13.94	14.37
4H	2H	13.28	14.41	13.68	14.76	15.14	10.71	11.83	11.11	12.18	12.57
	3H	15.26	16.19	15.67	16.59	17.00	12.89	13.82	13.30	14.22	14.62
	4H	16.06	16.90	16.50	17.32	17.76	13.77	14.60	14.20	15.02	15.46
	6H	16.71	17.43	17.17	17.88	18.34	14.41	15.13	14.87	15.58	16.04
	8H	16.93	17.60	17.39	18.05	18.52	14.62	15.29	15.08	15.74	16.21
	12H	17.08	17.68	17.57	18.16	18.64	14.77	15.37	15.26	15.86	16.33
8H	4H	16.35	17.02	16.81	17.47	17.94	14.41	15.09	14.88	15.54	16.01
	6H	17.13	17.69	17.63	18.18	18.66	15.28	15.83	15.78	16.33	16.81
	8H	17.43	17.93	17.95	18.45	18.94	15.60	16.10	16.12	16.62	17.11
	12H	17.67	18.11	18.18	18.60	19.17	15.87	16.31	16.38	16.80	17.37
12H	4H	16.36	16.96	16.85	17.45	17.92	14.49	15.09	14.97	15.57	16.04
	6H	17.18	17.68	17.70	18.20	18.69	15.41	15.91	15.93	16.43	16.92
	8H	17.55	17.99	18.06	18.48	19.05	15.83	16.27	16.34	16.76	17.33