

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: P893051

Luminaire Tested: 2MB-SC3-LVRA-UNV-CC83-LOW-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893051
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-4000K
Description: Selectable 2FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 80CRI, 4000K CCT, LO lumen setting
Light Source: -
Ballast/Driver: -

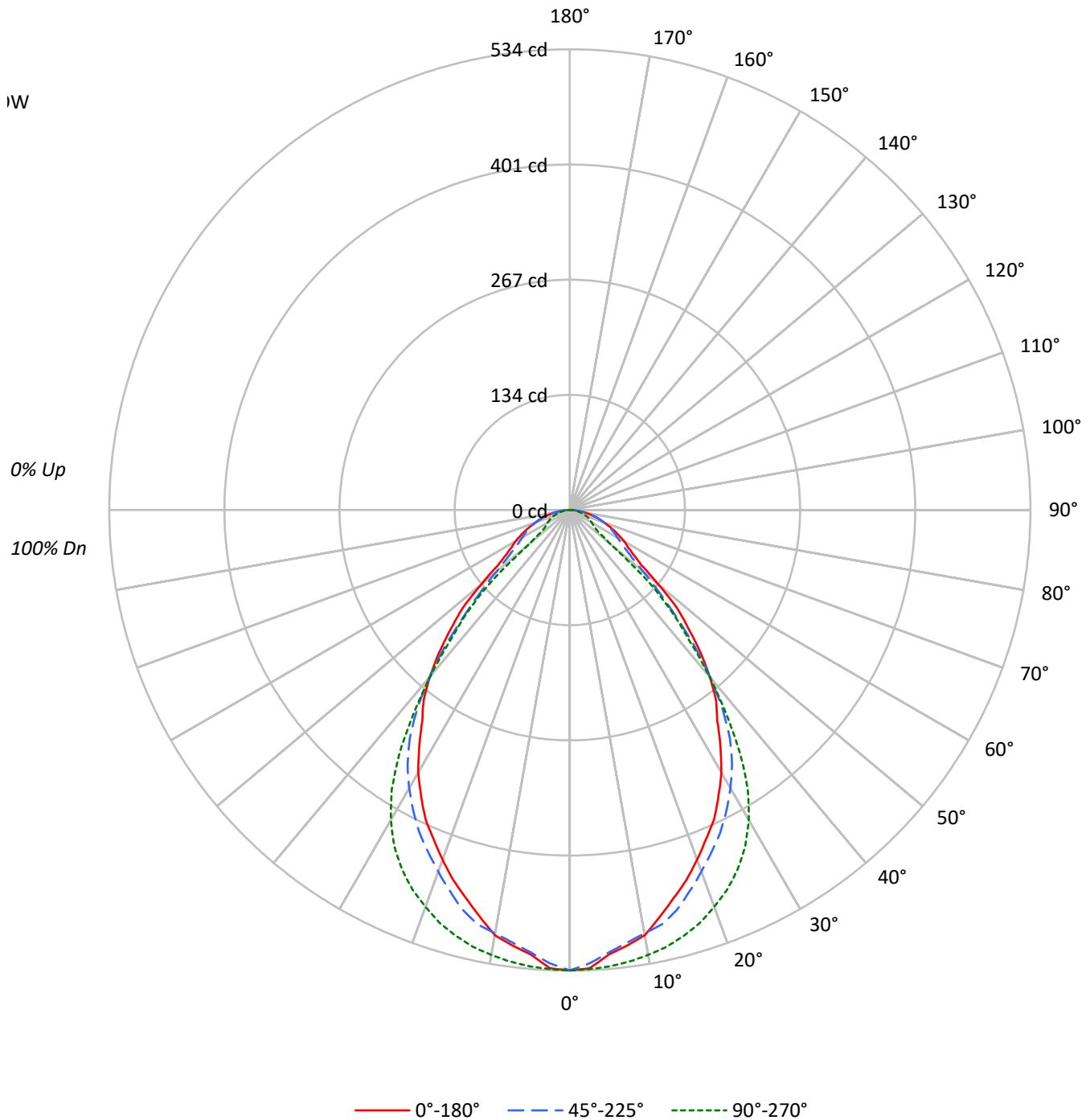
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 866.0 lumens
Efficiency: N/A
Efficacy: 125.5 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	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°	7633	7633	7633
5°	7427	7394	7625
10°	7269	7237	7607
15°	6894	7106	7565
20°	6567	6790	7449
25°	6247	6514	7259
30°	5805	6150	6854
35°	5204	5651	6011
40°	4715	4725	4700
45°	3943	3492	3405
50°	2978	2457	1393
55°	2240	1965	878
60°	2083	1811	847
65°	1936	1808	846
70°	1773	1773	832
75°	1680	1724	807
80°	1549	1631	824
85°	1362	1428	903

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 4034 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.3	5.7
10°-20°	135.8	15.7
20°-30°	192.6	22.2
30°-40°	198.4	22.9
40°-50°	138.6	16.0
50°-60°	66.5	7.7
60°-70°	46.7	5.4
70°-80°	29.2	3.4
80°-90°	9.0	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°	377.7	43.6
0°-40°	576.1	66.5
0°-60°	781.2	90.2
0°-90°	866.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	866.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	534	534	534	534	534	
5°	517	516	515	528	531	49
15°	466	469	480	494	511	131
25°	396	400	413	441	460	181
35°	298	306	324	330	344	188
45°	195	199	173	164	168	150
55°	90	85	79	50	35	84
65°	57	54	53	41	25	57
75°	30	30	31	27	15	32
85°	8	8	9	8	6	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	533.6	533.6	533.6	533.6	533.6
2.5°	531.5	529.9	525.9	533.2	532.6
5°	517.2	516.5	514.9	528.4	531.0
7.5°	509.1	507.7	505.8	520.7	528.0
10°	500.4	502.1	498.2	511.9	523.7
12.5°	482.6	487.0	492.2	502.8	518.5
15°	465.5	469.0	479.8	493.6	510.8
17.5°	449.6	453.6	462.9	483.5	501.8
20°	431.4	436.9	446.0	472.4	489.3
22.5°	412.7	417.8	429.2	457.5	476.4
25°	395.8	399.8	412.7	440.6	459.9
27.5°	373.4	380.8	393.0	420.0	440.2
30°	351.4	357.7	372.3	395.0	414.9
32.5°	324.8	334.0	350.1	367.5	384.1
35°	298.0	306.1	323.6	330.3	344.2
37.5°	278.5	280.7	290.6	289.8	297.6
40°	252.5	256.9	253.0	242.7	251.7
42.5°	224.4	229.7	214.1	202.2	205.3
45°	194.9	199.4	172.6	163.8	168.3
47.5°	169.3	168.9	139.2	133.3	126.9
50°	133.8	138.2	110.4	99.4	62.6
52.5°	104.5	106.2	91.0	63.5	41.1
55°	89.8	85.4	78.8	50.5	35.2
57.5°	79.8	74.3	69.9	46.9	32.2
60°	72.8	66.6	63.3	44.6	29.6
62.5°	64.8	60.0	58.7	42.5	27.2
65°	57.2	53.5	53.4	40.6	25.0
67.5°	49.6	47.6	48.1	38.2	22.6
70°	42.4	41.9	42.4	35.2	19.9
72.5°	36.2	35.8	36.9	31.4	17.1
75°	30.4	30.0	31.2	27.0	14.6
77.5°	24.2	24.5	25.3	22.4	12.2
80°	18.8	18.8	19.8	17.6	10.0
82.5°	13.5	13.6	14.2	12.9	7.8
85°	8.3	8.3	8.7	8.5	5.5
87.5°	2.8	3.2	3.7	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	12.71	14.07	13.08	14.38	14.69	9.04	10.40	9.41	10.71	11.02
	3H	14.45	15.66	14.83	15.98	16.35	11.02	12.22	11.40	12.55	12.92
	4H	15.12	16.25	15.52	16.60	16.98	11.72	12.85	12.13	13.20	13.58
	6H	15.63	16.66	16.04	17.03	17.43	12.24	13.28	12.66	13.65	14.05
	8H	15.80	16.78	16.23	17.17	17.58	12.43	13.41	12.86	13.80	14.21
	12H	15.91	16.85	16.34	17.23	17.66	12.57	13.51	13.00	13.89	14.32
4H	2H	13.24	14.37	13.64	14.72	15.10	10.67	11.79	11.07	12.14	12.53
	3H	15.22	16.15	15.63	16.55	16.95	12.84	13.77	13.26	14.18	14.58
	4H	16.02	16.86	16.45	17.27	17.72	13.72	14.56	14.16	14.98	15.42
	6H	16.66	17.39	17.12	17.83	18.30	14.37	15.09	14.83	15.53	16.00
	8H	16.88	17.56	17.35	18.00	18.48	14.57	15.25	15.04	15.70	16.17
	12H	17.04	17.64	17.52	18.12	18.59	14.73	15.33	15.21	15.81	16.28
8H	4H	16.30	16.98	16.77	17.43	17.90	14.37	15.05	14.84	15.50	15.97
	6H	17.09	17.64	17.59	18.14	18.62	15.23	15.79	15.73	16.28	16.76
	8H	17.39	17.89	17.91	18.40	18.89	15.56	16.06	16.08	16.57	17.06
	12H	17.62	18.06	18.14	18.56	19.13	15.82	16.26	16.33	16.75	17.32
12H	4H	16.32	16.92	16.81	17.40	17.88	14.45	15.05	14.93	15.53	16.00
	6H	17.14	17.64	17.66	18.15	18.64	15.37	15.87	15.89	16.38	16.87
	8H	17.50	17.94	18.02	18.44	19.01	15.78	16.22	16.29	16.72	17.29