

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: P893072

Luminaire Tested: 2MB-SC3-LVRF-UNV-CC83-MID-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893072
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-SC3-LVRF-UNV-CC83-MID-4000K
Description: Selectable 2FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 80CRI, 4000K CCT
lumen setting
Light Source: -
Ballast/Driver: -

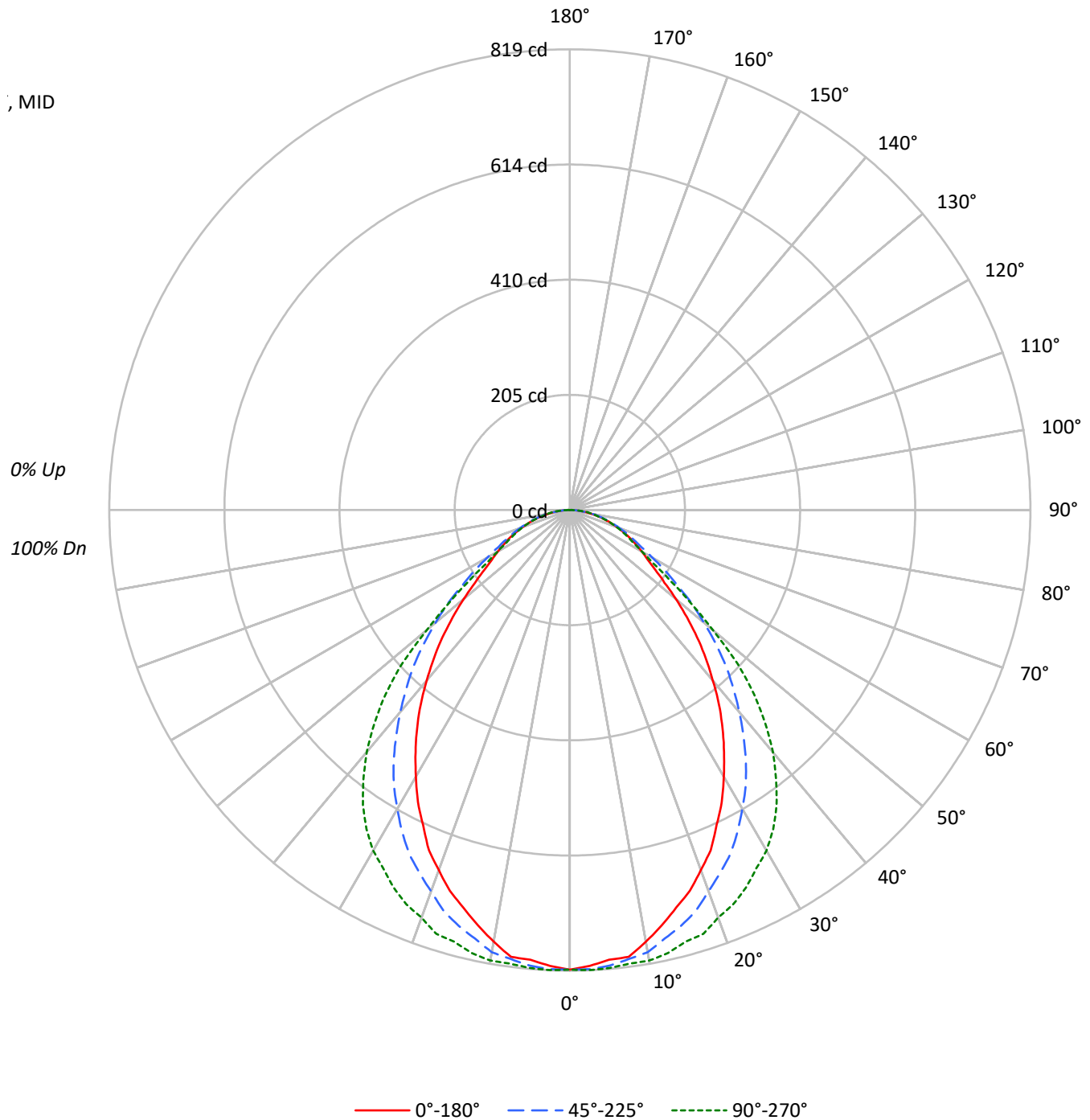
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1656.0 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Spacing Criteria (0/90/45): 1.04 / 1.26 / 1.21
Luminous Opening: Rectangular (W 0.38' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 13.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.9948
Total Harmonic Distortion (THDi): 5.65231997856897
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	94	91	92	90	89	89	89	89	87
2	102	94	88	83	99	93	87	82	89	84	80	86	82	79	83	80	77	77	77	77	75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	67	67	67	65
4	87	76	68	62	84	75	67	62	72	66	61	70	64	60	68	63	59	59	59	59	57
5	80	69	61	54	78	68	60	54	66	59	54	64	58	53	62	57	53	53	53	53	51
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	47	47	47	45
7	70	57	49	43	68	56	49	43	55	48	43	54	47	43	52	47	42	42	42	42	41
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	38	38	38	37
9	61	49	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	35	35	35	33
10	57	45	38	33	56	45	37	33	44	37	32	43	37	32	42	36	32	32	32	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11689	11689	11689
5°	11527	11679	11734
10°	11320	11595	11814
15°	10837	11330	11765
20°	10369	10979	11737
25°	9750	10656	11693
30°	9044	10129	11551
35°	8269	9535	11196
40°	7389	8756	10491
45°	6478	7945	9381
50°	5479	6924	7378
55°	4634	5819	5405
60°	4234	4861	4257
65°	4015	4268	3859
70°	3760	3948	3697
75°	3504	3714	3548
80°	3238	3485	3419
85°	2856	3102	3726

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 9381 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.1	4.7
10°-20°	215.7	13.0
20°-30°	310.9	18.8
30°-40°	342.9	20.7
40°-50°	300.2	18.1
50°-60°	197.3	11.9
60°-70°	120.6	7.3
70°-80°	69.8	4.2
80°-90°	21.7	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°	603.7	36.5
0°-40°	946.6	57.2
0°-60°	1444.1	87.2
0°-90°	1656.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1656.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	817	817	817	817	817	
5°	803	811	813	818	817	76
15°	732	744	765	790	794	206
25°	618	639	675	716	741	284
35°	474	494	546	606	641	295
45°	320	340	393	441	464	247
55°	186	196	233	234	217	169
65°	119	119	126	121	114	117
75°	63	63	67	69	64	67
85°	17	17	19	20	23	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	817.1	817.1	817.1	817.1	817.1
2.5°	811.0	815.6	817.1	820.1	818.6
5°	802.7	811.0	813.3	817.8	817.1
7.5°	801.2	798.2	805.0	814.1	813.3
10°	779.3	785.4	798.2	811.8	813.3
12.5°	755.9	765.7	780.1	803.5	806.5
15°	731.7	743.8	765.0	789.9	794.4
17.5°	709.8	721.9	746.8	774.8	789.9
20°	681.1	697.8	721.2	755.9	771.0
22.5°	654.7	668.3	698.5	736.3	758.9
25°	617.7	638.9	675.1	715.9	740.8
27.5°	585.2	604.9	645.7	691.0	718.1
30°	547.5	569.4	613.2	663.8	699.3
32.5°	510.5	530.9	582.2	634.3	672.8
35°	473.5	493.9	546.0	606.4	641.1
37.5°	435.7	456.9	507.5	569.4	602.6
40°	395.7	419.9	468.9	530.1	561.8
42.5°	357.9	380.6	430.4	490.1	514.3
45°	320.2	339.8	392.7	441.0	463.7
47.5°	282.4	301.3	351.9	391.9	404.8
50°	246.2	263.5	311.1	336.0	331.5
52.5°	212.2	228.1	273.4	283.2	270.3
55°	185.8	195.6	233.3	234.1	216.7
57.5°	163.9	171.4	200.9	193.3	174.4
60°	148.0	150.3	169.9	161.6	148.8
62.5°	132.2	133.7	144.2	138.2	128.4
65°	118.6	118.6	126.1	120.8	114.0
67.5°	103.5	104.2	109.5	106.5	101.2
70°	89.9	89.9	94.4	94.4	88.4
72.5°	76.3	76.3	80.0	80.8	77.0
75°	63.4	63.4	67.2	68.7	64.2
77.5°	51.4	51.4	54.4	56.6	51.4
80°	39.3	39.3	42.3	44.6	41.5
82.5°	27.9	28.7	30.2	32.5	32.5
85°	17.4	17.4	18.9	20.4	22.7
87.5°	7.6	8.3	9.1	9.8	11.3
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	15.96	17.43	16.32	17.74	18.06	16.70	18.17	17.06	18.49	18.80
	3H	17.55	18.87	17.93	19.20	19.56	18.04	19.36	18.42	19.69	20.05
	4H	18.17	19.41	18.57	19.76	20.14	18.61	19.85	19.01	20.20	20.58
	6H	18.65	19.79	19.06	20.16	20.55	19.07	20.21	19.48	20.58	20.97
	8H	18.81	19.89	19.23	20.28	20.68	19.25	20.34	19.68	20.73	21.13
	12H	18.91	19.95	19.34	20.33	20.76	19.40	20.44	19.83	20.82	21.25
4H	2H	16.58	17.82	16.98	18.17	18.55	17.18	18.42	17.58	18.76	19.14
	3H	18.39	19.41	18.80	19.81	20.22	18.78	19.81	19.20	20.21	20.61
	4H	19.12	20.05	19.56	20.46	20.90	19.51	20.43	19.95	20.85	21.29
	6H	19.72	20.53	20.18	20.97	21.43	20.12	20.92	20.58	21.37	21.83
	8H	19.93	20.68	20.39	21.12	21.59	20.36	21.11	20.83	21.56	22.02
	12H	20.08	20.75	20.56	21.22	21.70	20.56	21.23	21.05	21.71	22.18
8H	4H	19.43	20.18	19.90	20.63	21.10	19.78	20.53	20.24	20.97	21.44
	6H	20.16	20.78	20.66	21.27	21.75	20.54	21.16	21.03	21.65	22.13
	8H	20.44	21.00	20.96	21.51	22.00	20.86	21.42	21.38	21.93	22.42
	12H	20.67	21.16	21.18	21.65	22.22	21.16	21.65	21.67	22.14	22.71
12H	4H	19.47	20.14	19.95	20.62	21.09	19.80	20.47	20.28	20.95	21.42
	6H	20.23	20.78	20.74	21.30	21.78	20.58	21.14	21.10	21.65	22.14
	8H	20.57	21.06	21.08	21.55	22.12	20.97	21.46	21.48	21.96	22.52