

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: P893080

Luminaire Tested: 2MB-SC3-LVRF-UNV-CC93-MID-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893080
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-CC93-MID-3500K
Description: Selectable 2FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 90CRI, 3500K CCT
lumen setting
Light Source: -
Ballast/Driver: -

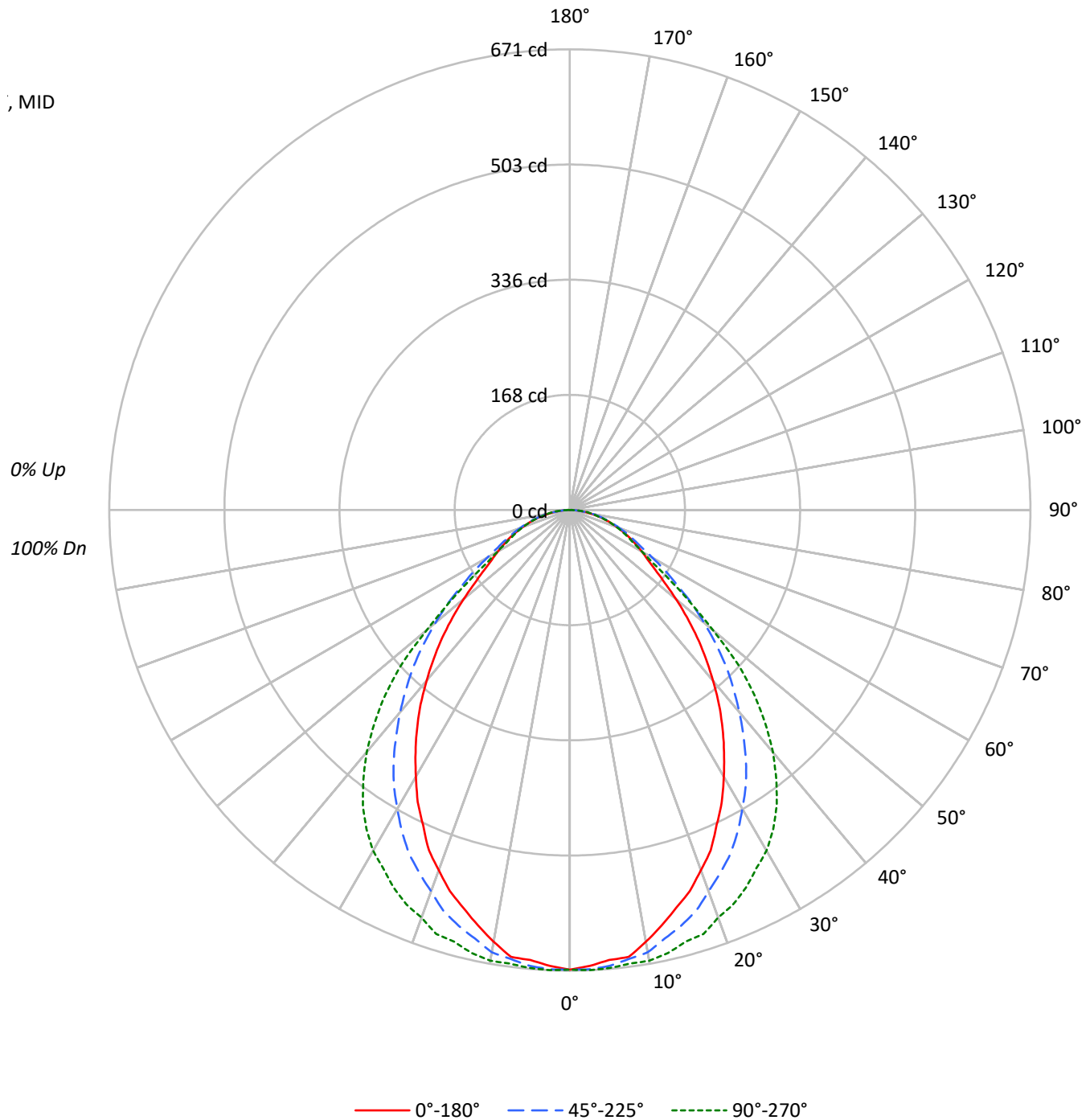
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1357.0 lumens
Efficiency: N/A
Efficacy: 97.6 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°	9578	9578	9578
5°	9446	9571	9614
10°	9276	9502	9682
15°	8880	9283	9641
20°	8498	8997	9618
25°	7990	8732	9581
30°	7410	8301	9465
35°	6776	7813	9175
40°	6056	7177	8598
45°	5309	6510	7686
50°	4489	5673	6047
55°	3796	4769	4429
60°	3471	3983	3488
65°	3290	3497	3162
70°	3078	3237	3028
75°	2874	3045	2907
80°	2653	2859	2801
85°	2331	2544	3053

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 7686 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.2	4.7
10°-20°	176.7	13.0
20°-30°	254.8	18.8
30°-40°	281.0	20.7
40°-50°	246.0	18.1
50°-60°	161.6	11.9
60°-70°	98.8	7.3
70°-80°	57.2	4.2
80°-90°	17.7	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°	494.7	36.5
0°-40°	775.7	57.2
0°-60°	1183.4	87.2
0°-90°	1357.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1357.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	670	670	670	670	670	
5°	658	665	666	670	670	62
15°	600	610	627	647	651	169
25°	506	524	553	587	607	233
35°	388	405	447	497	525	242
45°	262	278	322	361	380	202
55°	152	160	191	192	178	139
65°	97	97	103	99	93	96
75°	52	52	55	56	53	55
85°	14	14	16	17	19	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	669.5	669.5	669.5	669.5	669.5
2.5°	664.6	668.3	669.5	672.0	670.8
5°	657.8	664.6	666.5	670.2	669.5
7.5°	656.6	654.1	659.6	667.1	666.5
10°	638.6	643.6	654.1	665.2	666.5
12.5°	619.4	627.5	639.2	658.4	660.9
15°	599.6	609.5	626.8	647.3	651.0
17.5°	581.7	591.6	612.0	634.9	647.3
20°	558.2	571.8	591.0	619.4	631.8
22.5°	536.5	547.6	572.4	603.3	621.9
25°	506.2	523.5	553.2	586.6	607.0
27.5°	479.6	495.7	529.1	566.2	588.5
30°	448.6	466.6	502.5	543.9	573.0
32.5°	418.3	435.0	477.1	519.8	551.4
35°	388.0	404.7	447.4	496.9	525.4
37.5°	357.0	374.4	415.8	466.6	493.8
40°	324.3	344.1	384.3	434.4	460.4
42.5°	293.3	311.9	352.7	401.6	421.4
45°	262.4	278.5	321.8	361.4	379.9
47.5°	231.4	246.9	288.4	321.2	331.7
50°	201.7	216.0	254.9	275.4	271.7
52.5°	173.9	186.9	224.0	232.1	221.5
55°	152.2	160.3	191.2	191.8	177.6
57.5°	134.3	140.5	164.6	158.4	142.9
60°	121.3	123.1	139.2	132.4	121.9
62.5°	108.3	109.5	118.2	113.2	105.2
65°	97.2	97.2	103.3	99.0	93.4
67.5°	84.8	85.4	89.7	87.3	82.9
70°	73.6	73.6	77.4	77.4	72.4
72.5°	62.5	62.5	65.6	66.2	63.1
75°	52.0	52.0	55.1	56.3	52.6
77.5°	42.1	42.1	44.6	46.4	42.1
80°	32.2	32.2	34.7	36.5	34.0
82.5°	22.9	23.5	24.8	26.6	26.6
85°	14.2	14.2	15.5	16.7	18.6
87.5°	6.2	6.8	7.4	8.0	9.3
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	15.26	16.74	15.63	17.05	17.37	16.01	17.48	16.37	17.80	18.11
	3H	16.86	18.18	17.24	18.51	18.87	17.35	18.67	17.73	19.00	19.36
	4H	17.48	18.72	17.88	19.07	19.45	17.92	19.16	18.32	19.51	19.89
	6H	17.96	19.10	18.37	19.47	19.86	18.38	19.52	18.79	19.89	20.28
	8H	18.11	19.20	18.54	19.59	19.99	18.56	19.65	18.99	20.04	20.44
	12H	18.22	19.26	18.65	19.64	20.07	18.71	19.75	19.14	20.13	20.56
4H	2H	15.89	17.13	16.29	17.48	17.86	16.49	17.72	16.89	18.07	18.45
	3H	17.70	18.72	18.11	19.12	19.52	18.09	19.12	18.50	19.52	19.92
	4H	18.43	19.35	18.87	19.77	20.21	18.82	19.74	19.25	20.16	20.60
	6H	19.03	19.83	19.49	20.28	20.74	19.43	20.23	19.89	20.68	21.14
	8H	19.24	19.99	19.70	20.43	20.90	19.67	20.42	20.13	20.86	21.33
	12H	19.38	20.05	19.87	20.53	21.00	19.87	20.54	20.35	21.02	21.49
8H	4H	18.74	19.49	19.21	19.94	20.41	19.09	19.84	19.55	20.28	20.75
	6H	19.47	20.09	19.97	20.58	21.06	19.84	20.46	20.34	20.96	21.43
	8H	19.75	20.31	20.27	20.82	21.31	20.17	20.73	20.68	21.24	21.73
	12H	19.97	20.47	20.48	20.96	21.53	20.46	20.96	20.97	21.45	22.02
12H	4H	18.78	19.45	19.26	19.93	20.40	19.11	19.78	19.59	20.26	20.73
	6H	19.53	20.09	20.05	20.60	21.09	19.89	20.45	20.41	20.96	21.45
	8H	19.88	20.37	20.39	20.86	21.43	20.28	20.77	20.79	21.27	21.83