

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: P893095

Luminaire Tested: 2MB-SC3-RFLW-UNV-CC93-LOW-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893095
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2408-210-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-SC3-RFLW-UNV-CC93-LOW-3500K
Description: Selectable 2FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 90CRI, 3500K CC
LOW lumen setting
Light Source: -
Ballast/Driver: -

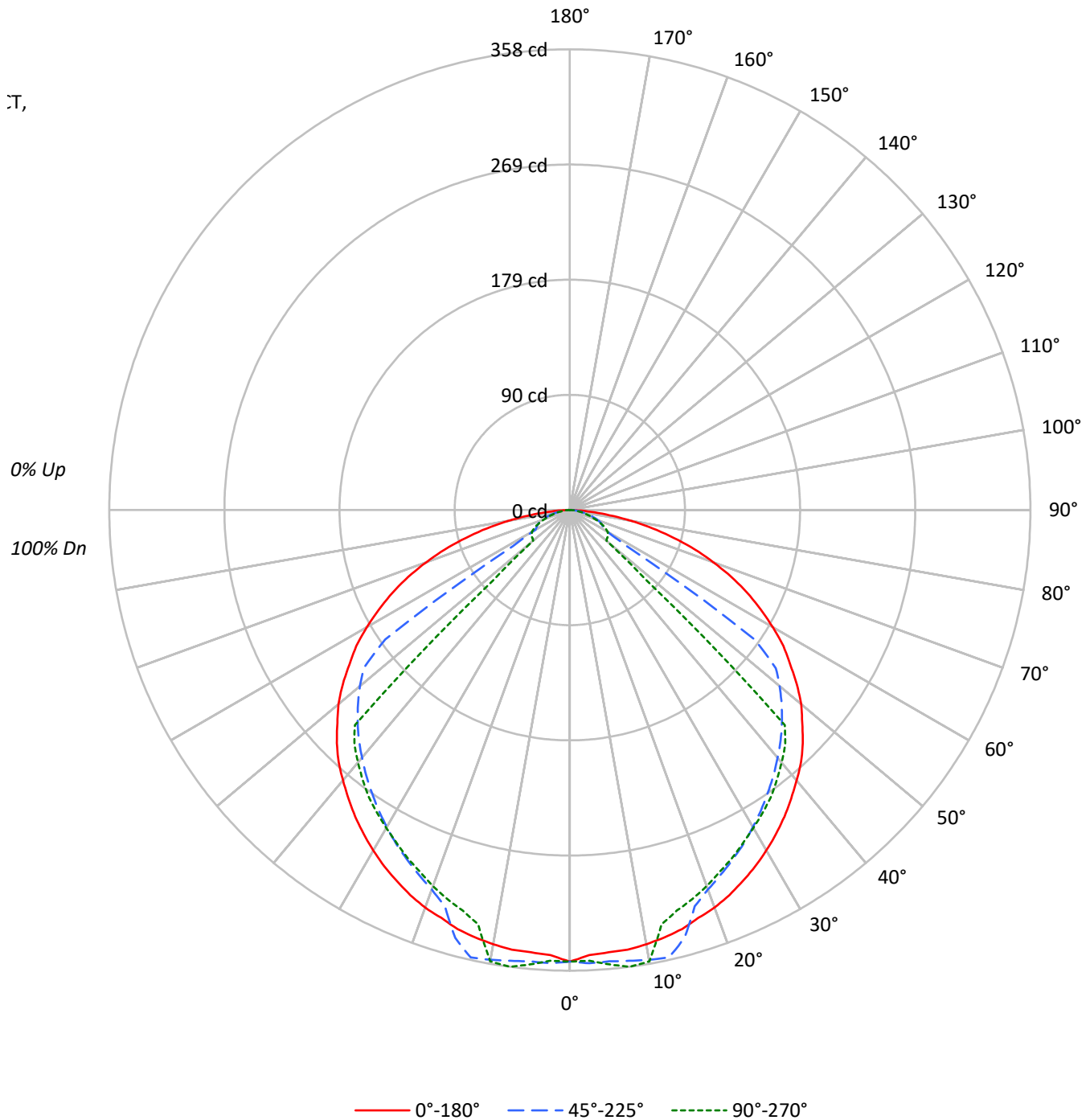
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 824.0 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.22 / 1.37
Luminous Opening: Rectangular (W 0.21' 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	110	106	102	99	108	104	101	98	100	97	94	96	94	92	92	91	89	89	89	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	77	77	77	75
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	67	67	67	67	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	58	58	58	56
5	80	68	59	53	77	67	59	53	64	58	52	63	57	52	61	55	51	51	51	51	49
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46	46	46	46	44
7	69	56	48	42	67	55	47	42	53	46	41	52	46	41	51	45	41	41	41	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	42	37	47	41	37	37	37	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	37	33	33	33	33	32
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	30	30	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9161	9161	9161
5°	9042	9228	9291
10°	9083	9409	9440
15°	9111	9303	8706
20°	9135	8718	8641
25°	9163	8628	8596
30°	9210	8577	8601
35°	9268	8551	8679
40°	9349	8565	8728
45°	9456	8610	8725
50°	9533	8651	1507
55°	9513	7970	1639
60°	9514	1608	1775
65°	9396	1711	1761
70°	9076	1779	1626
75°	8453	1674	1432
80°	7247	1488	1248
85°	4853	1408	1078

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 9563 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.6	4.1
10°-20°	94.8	11.5
20°-30°	141.9	17.2
30°-40°	171.1	20.8
40°-50°	172.3	20.9
50°-60°	107.5	13.0
60°-70°	67.6	8.2
70°-80°	28.1	3.4
80°-90°	7.2	0.9
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°	270.3	32.8
0°-40°	441.4	53.6
0°-60°	721.1	87.5
0°-90°	824.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	824.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	351	351	351	351	351	
5°	345	352	352	352	354	33
15°	337	347	344	322	322	95
25°	318	330	300	297	298	147
35°	291	272	268	270	272	182
45°	256	232	233	236	236	197
55°	209	184	175	34	36	187
65°	152	132	28	29	28	150
75°	84	20	17	15	14	88
85°	16	6	5	4	4	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	350.9	350.9	350.9	350.9	350.9
2.5°	346.2	352.5	352.5	350.9	350.5
5°	345.0	352.1	352.1	352.5	354.5
7.5°	344.6	351.3	353.3	355.7	358.0
10°	342.6	350.5	354.9	358.0	356.1
12.5°	340.2	348.9	356.1	335.9	329.6
15°	337.1	347.4	344.2	322.1	322.1
17.5°	332.3	345.0	322.9	316.5	316.9
20°	328.8	343.0	313.8	310.2	311.0
22.5°	324.0	339.1	306.7	303.5	304.3
25°	318.1	330.4	299.5	297.2	298.4
27.5°	312.2	312.6	292.4	290.8	291.6
30°	305.5	295.6	284.5	284.1	285.3
32.5°	298.4	282.9	276.6	277.4	279.0
35°	290.8	272.3	268.3	269.9	272.3
37.5°	282.6	262.4	260.0	262.8	264.4
40°	274.3	252.1	251.3	254.1	256.1
42.5°	266.0	242.2	242.6	245.4	247.8
45°	256.1	231.6	233.2	236.3	236.3
47.5°	245.0	220.1	223.3	216.6	80.2
50°	234.7	208.7	213.0	64.0	37.1
52.5°	222.5	196.4	201.9	35.2	36.4
55°	209.0	184.2	175.1	34.4	36.0
57.5°	196.8	171.5	52.2	34.0	35.2
60°	182.2	158.9	30.8	33.2	34.0
62.5°	167.2	145.4	29.2	31.6	31.6
65°	152.1	131.6	27.7	28.8	28.5
67.5°	135.9	117.4	26.1	25.3	24.9
70°	118.9	72.3	23.3	21.7	21.3
72.5°	102.0	24.9	20.2	18.2	17.8
75°	83.8	20.2	16.6	14.6	14.2
77.5°	66.0	16.6	13.0	11.5	11.1
80°	48.2	12.6	9.9	8.7	8.3
82.5°	31.2	9.1	7.5	5.9	5.5
85°	16.2	5.9	4.7	3.6	3.6
87.5°	6.3	3.6	2.4	1.6	1.2
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	20.69	22.20	21.05	22.51	22.83	9.33	10.84	9.70	11.16	11.47
	3H	22.61	23.96	22.99	24.29	24.65	11.46	12.81	11.84	13.14	13.50
	4H	23.09	24.36	23.49	24.71	25.09	12.14	13.41	12.54	13.76	14.14
	6H	23.53	24.70	23.94	25.06	25.46	12.61	13.77	13.02	14.14	14.53
	8H	23.67	24.78	24.09	25.17	25.57	12.74	13.85	13.17	14.24	14.64
	12H	23.74	24.81	24.17	25.19	25.62	12.83	13.89	13.26	14.27	14.70
4H	2H	20.53	21.80	20.93	22.15	22.53	10.08	11.35	10.48	11.70	12.08
	3H	22.56	23.61	22.97	24.01	24.41	12.42	13.46	12.83	13.87	14.27
	4H	23.05	23.99	23.48	24.40	24.84	13.21	14.15	13.65	14.57	15.00
	6H	23.56	24.37	24.02	24.82	25.28	13.79	14.60	14.25	15.04	15.50
	8H	23.75	24.51	24.21	24.95	25.42	13.96	14.72	14.42	15.16	15.63
	12H	23.87	24.55	24.36	25.03	25.50	14.08	14.76	14.56	15.24	15.71
8H	4H	22.97	23.73	23.44	24.18	24.65	13.80	14.56	14.27	15.00	15.47
	6H	23.49	24.11	23.98	24.60	25.08	14.46	15.08	14.95	15.58	16.05
	8H	23.68	24.25	24.20	24.76	25.25	14.68	15.24	15.19	15.75	16.24
	12H	23.84	24.34	24.35	24.84	25.40	14.85	15.35	15.36	15.85	16.41
12H	4H	22.94	23.62	23.43	24.10	24.57	13.88	14.56	14.37	15.04	15.51
	6H	23.44	24.00	23.96	24.52	25.00	14.57	15.13	15.08	15.64	16.13
	8H	23.66	24.16	24.17	24.66	25.22	14.85	15.35	15.36	15.84	16.40