

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: P893098

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893098
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-MID-3500K
Description: Selectable 2FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 90CRI, 3500K CC
MID lumen setting
Light Source: -
Ballast/Driver: -

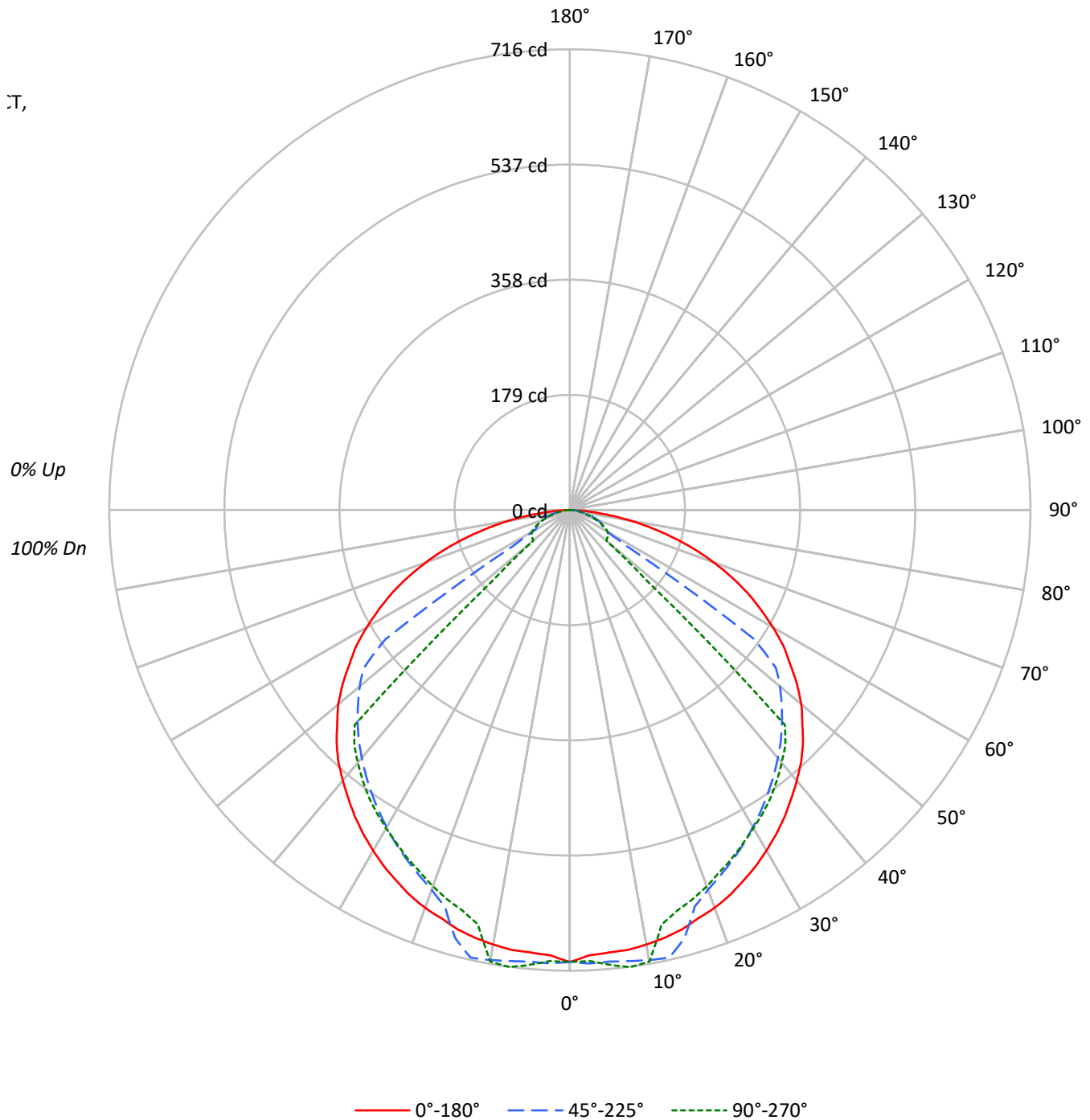
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1649.0 lumens
Efficiency: N/A
Efficacy: 118.6 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): 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	100	100	100	100
1	110	106	102	99	108	104	101	98	100	97	94	96	94	92	92	91	89	87	87	87	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75	75	75	75
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	67	64	64	64	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56	56	56	56
5	80	68	59	53	77	67	59	53	64	58	52	63	57	52	61	55	51	49	49	49	49
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46	44	44	44	44
7	69	56	48	42	67	55	47	42	53	46	41	52	46	41	51	45	41	39	39	39	39
8	64	51	43	37	62	50	43	37	49	42	37	48	42	37	47	41	37	35	35	35	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	37	33	32	32	32	32
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29	29	29	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18336	18336	18336
5°	18094	18466	18592
10°	18178	18828	18889
15°	18234	18618	17420
20°	18282	17445	17292
25°	18338	17267	17201
30°	18429	17166	17214
35°	18553	17115	17367
40°	18704	17143	17467
45°	18923	17228	17461
50°	19082	17315	3018
55°	19040	15945	3277
60°	19038	3222	3551
65°	18811	3422	3515
70°	18168	3565	3259
75°	16916	3349	2875
80°	14509	2977	2496
85°	9706	2846	2127

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 19135 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.3	4.1
10°-20°	189.7	11.5
20°-30°	283.9	17.2
30°-40°	342.3	20.8
40°-50°	344.7	20.9
50°-60°	215.1	13.0
60°-70°	135.2	8.2
70°-80°	56.2	3.4
80°-90°	14.4	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°	541.0	32.8
0°-40°	883.3	53.6
0°-60°	1443.1	87.5
0°-90°	1649.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1649.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	702	702	702	702	702	
5°	690	705	705	705	709	66
15°	675	695	689	644	644	190
25°	637	661	599	595	597	294
35°	582	545	537	540	545	364
45°	512	463	467	473	473	395
55°	418	368	350	69	72	375
65°	304	263	55	58	57	300
75°	168	40	33	29	28	177
85°	32	12	10	7	7	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	702.3	702.3	702.3	702.3	702.3
2.5°	692.8	705.4	705.4	702.3	701.5
5°	690.4	704.6	704.6	705.4	709.4
7.5°	689.6	703.0	707.0	711.7	716.5
10°	685.7	701.5	710.2	716.5	712.5
12.5°	680.9	698.3	712.5	672.2	659.6
15°	674.6	695.1	688.8	644.5	644.5
17.5°	665.1	690.4	646.1	633.5	634.2
20°	658.0	686.4	627.9	620.8	622.4
22.5°	648.5	678.5	613.7	607.4	608.9
25°	636.6	661.1	599.4	594.7	597.1
27.5°	624.8	625.5	585.2	582.1	583.6
30°	611.3	591.5	569.4	568.6	571.0
32.5°	597.1	566.2	553.6	555.2	558.3
35°	582.1	544.9	537.0	540.1	544.9
37.5°	565.4	525.1	520.4	525.9	529.1
40°	548.8	504.5	503.0	508.5	512.5
42.5°	532.2	484.8	485.6	491.1	495.9
45°	512.5	463.4	466.6	472.9	472.9
47.5°	490.3	440.5	446.8	433.4	160.5
50°	469.8	417.6	426.3	128.1	74.3
52.5°	445.2	393.0	404.1	70.4	72.8
55°	418.3	368.5	350.3	68.8	72.0
57.5°	393.8	343.2	104.4	68.0	70.4
60°	364.6	317.9	61.7	66.4	68.0
62.5°	334.5	291.0	58.5	63.3	63.3
65°	304.5	263.3	55.4	57.7	56.9
67.5°	272.0	234.9	52.2	50.6	49.8
70°	238.0	144.7	46.7	43.5	42.7
72.5°	204.0	49.8	40.3	36.4	35.6
75°	167.7	40.3	33.2	29.3	28.5
77.5°	132.1	33.2	26.1	22.9	22.1
80°	96.5	25.3	19.8	17.4	16.6
82.5°	62.5	18.2	15.0	11.9	11.1
85°	32.4	11.9	9.5	7.1	7.1
87.5°	12.7	7.1	4.7	3.2	2.4
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	23.10	24.61	23.46	24.93	25.24	11.74	13.25	12.10	13.56	13.88
	3H	25.02	26.37	25.40	26.70	27.06	13.87	15.22	14.24	15.55	15.91
	4H	25.50	26.77	25.90	27.12	27.50	14.55	15.82	14.95	16.17	16.55
	6H	25.94	27.11	26.35	27.47	27.87	15.01	16.18	15.43	16.55	16.94
	8H	26.08	27.19	26.51	27.58	27.98	15.15	16.26	15.58	16.65	17.05
	12H	26.15	27.22	26.58	27.60	28.03	15.24	16.30	15.67	16.68	17.11
4H	2H	22.94	24.21	23.34	24.56	24.94	12.49	13.75	12.89	14.10	14.48
	3H	24.97	26.02	25.38	26.42	26.82	14.83	15.87	15.24	16.27	16.68
	4H	25.46	26.40	25.89	26.81	27.25	15.63	16.56	16.06	16.98	17.42
	6H	25.97	26.79	26.43	27.23	27.69	16.20	17.01	16.65	17.45	17.91
	8H	26.16	26.92	26.62	27.36	27.83	16.37	17.13	16.83	17.57	18.04
	12H	26.28	26.96	26.77	27.44	27.91	16.49	17.17	16.97	17.64	18.12
8H	4H	25.38	26.14	25.85	26.59	27.06	16.21	16.97	16.68	17.42	17.88
	6H	25.90	26.52	26.39	27.01	27.49	16.87	17.49	17.36	17.98	18.46
	8H	26.09	26.66	26.61	27.17	27.66	17.09	17.65	17.60	18.16	18.65
	12H	26.26	26.75	26.77	27.25	27.81	17.26	17.76	17.77	18.25	18.82
12H	4H	25.35	26.03	25.84	26.51	26.98	16.29	16.97	16.78	17.45	17.92
	6H	25.85	26.41	26.37	26.93	27.41	16.98	17.54	17.49	18.05	18.54
	8H	26.08	26.57	26.59	27.07	27.63	17.26	17.76	17.77	18.25	18.82