

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: P894291

Luminaire Tested: 4MB-SC3-RFLW-UNV-CC93-LOW-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894291
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2408-210-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4MB-SC3-RFLW-UNV-CC93-LOW-3500K
Description: Selectable 4FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 90CRI, 3500K CC
LOW lumen setting
Light Source: -
Ballast/Driver: -

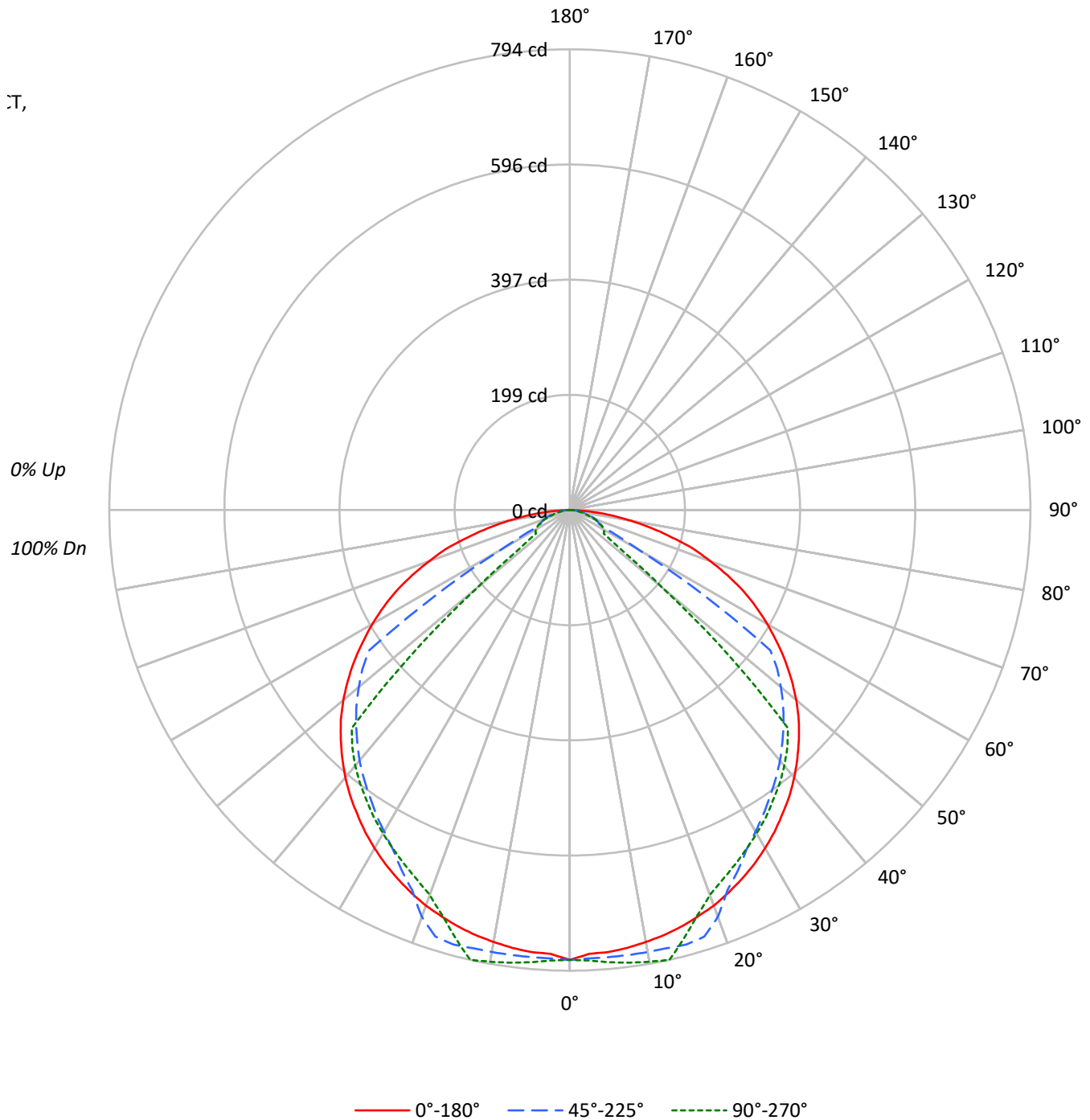
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1891.0 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.24 / 1.38
Luminous Opening: Rectangular (W 0.21' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 16.7
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	79	77	77	77	77	75
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	66	66	66	64
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	58	58	58	56
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	61	55	51	51	51	51	49
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	45	45	45	43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	40	40	40	38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	36	36	36	35
9	60	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	33	33	33	31
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	30	30	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10067	10067	10067
5°	9968	10082	10198
10°	9966	10199	10422
15°	9992	10422	10256
20°	10025	10309	9756
25°	10051	9821	9657
30°	10092	9599	9652
35°	10134	9541	9682
40°	10203	9555	9752
45°	10254	9567	9764
50°	10293	9592	4220
55°	10267	9560	1610
60°	10206	3649	1756
65°	10136	1693	1804
70°	9788	1822	1689
75°	9146	1741	1470
80°	8046	1533	1264
85°	6362	1326	1058

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 10293 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.0	3.9
10°-20°	215.0	11.4
20°-30°	320.8	17.0
30°-40°	388.8	20.6
40°-50°	398.1	21.1
50°-60°	264.8	14.0
60°-70°	150.9	8.0
70°-80°	63.4	3.4
80°-90°	15.1	0.8
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°	609.8	32.2
0°-40°	998.7	52.8
0°-60°	1661.6	87.9
0°-90°	1891.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1891.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	775	775	775	775	775	
5°	765	780	774	775	782	73
15°	743	764	775	773	763	210
25°	702	735	686	670	674	324
35°	639	651	602	605	611	400
45°	558	525	521	527	532	431
55°	454	415	422	92	71	405
65°	330	295	55	59	59	325
75°	182	38	35	30	29	194
85°	43	11	9	7	7	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	775.3	775.3	775.3	775.3	775.3
2.5°	765.5	781.5	773.5	774.4	777.1
5°	764.7	779.8	773.5	775.3	782.4
7.5°	761.1	777.1	773.5	778.9	786.9
10°	755.8	774.4	773.5	782.4	790.4
12.5°	750.4	769.1	773.5	786.9	794.0
15°	743.3	763.8	775.3	772.7	762.9
17.5°	734.4	758.4	770.9	732.6	731.8
20°	725.5	751.3	746.0	709.5	706.0
22.5°	714.0	744.2	709.5	684.6	689.1
25°	701.5	735.3	685.5	670.4	674.0
27.5°	688.2	726.4	659.7	654.4	658.8
30°	673.1	714.0	640.2	638.4	643.7
32.5°	657.1	690.0	621.5	622.4	628.6
35°	639.3	650.8	601.9	604.6	610.8
37.5°	621.5	614.4	583.3	587.7	593.9
40°	601.9	585.9	563.7	568.2	575.3
42.5°	580.6	555.7	542.4	548.6	554.8
45°	558.4	524.6	521.0	527.3	531.7
47.5°	535.3	497.9	498.8	503.2	377.0
50°	509.5	471.2	474.8	329.0	208.9
52.5°	481.9	443.7	450.8	183.2	105.8
55°	453.5	415.2	422.3	92.5	71.1
57.5°	423.2	386.8	275.6	66.7	70.2
60°	393.0	356.5	140.5	65.8	67.6
62.5°	361.9	326.3	66.7	63.1	64.0
65°	329.9	295.2	55.1	58.7	58.7
67.5°	294.3	262.3	52.5	52.5	51.6
70°	257.8	217.8	48.0	45.3	44.5
72.5°	224.1	83.6	41.8	37.3	36.5
75°	182.3	38.2	34.7	30.2	29.3
77.5°	144.9	32.0	27.6	24.0	23.1
80°	107.6	24.9	20.5	17.8	16.9
82.5°	74.7	16.9	14.2	11.6	11.6
85°	42.7	10.7	8.9	7.1	7.1
87.5°	16.9	5.3	4.4	2.7	2.7
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	20.95	22.47	21.31	22.78	23.10	8.71	10.24	9.08	10.55	10.86
	3H	22.97	24.33	23.35	24.66	25.02	11.03	12.39	11.41	12.72	13.08
	4H	23.43	24.70	23.83	25.05	25.43	11.74	13.01	12.14	13.36	13.74
	6H	23.84	25.01	24.25	25.38	25.77	12.23	13.40	12.64	13.77	14.16
	8H	23.99	25.10	24.41	25.49	25.89	12.36	13.48	12.79	13.87	14.27
	12H	24.09	25.15	24.52	25.54	25.96	12.45	13.52	12.88	13.90	14.33
4H	2H	20.79	22.06	21.19	22.41	22.79	9.51	10.78	9.91	11.13	11.51
	3H	22.99	24.04	23.40	24.44	24.84	12.02	13.07	12.43	13.47	13.87
	4H	23.44	24.38	23.87	24.80	25.24	12.84	13.78	13.28	14.20	14.64
	6H	23.91	24.72	24.36	25.16	25.63	13.44	14.25	13.89	14.69	15.15
	8H	24.10	24.86	24.56	25.30	25.77	13.61	14.37	14.07	14.81	15.28
	12H	24.25	24.93	24.73	25.41	25.88	13.72	14.40	14.21	14.88	15.35
8H	4H	23.36	24.12	23.82	24.57	25.03	13.68	14.44	14.15	14.89	15.36
	6H	23.82	24.45	24.32	24.94	25.42	14.31	14.93	14.80	15.43	15.90
	8H	24.02	24.58	24.53	25.09	25.58	14.51	15.07	15.02	15.58	16.07
	12H	24.20	24.71	24.71	25.20	25.76	14.66	15.17	15.17	15.66	16.22
12H	4H	23.33	24.01	23.81	24.49	24.96	13.75	14.43	14.24	14.91	15.38
	6H	23.77	24.34	24.29	24.85	25.34	14.40	14.96	14.91	15.47	15.96
	8H	24.00	24.50	24.51	24.99	25.55	14.65	15.15	15.16	15.65	16.21