

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: P894293

Luminaire Tested: 4MB-SC3-RFLW-UNV-CC93-LOW-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894293
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-5000K
Description: Selectable 4FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 90CRI, 5000K CC
LOW lumen setting
Light Source: -
Ballast/Driver: -

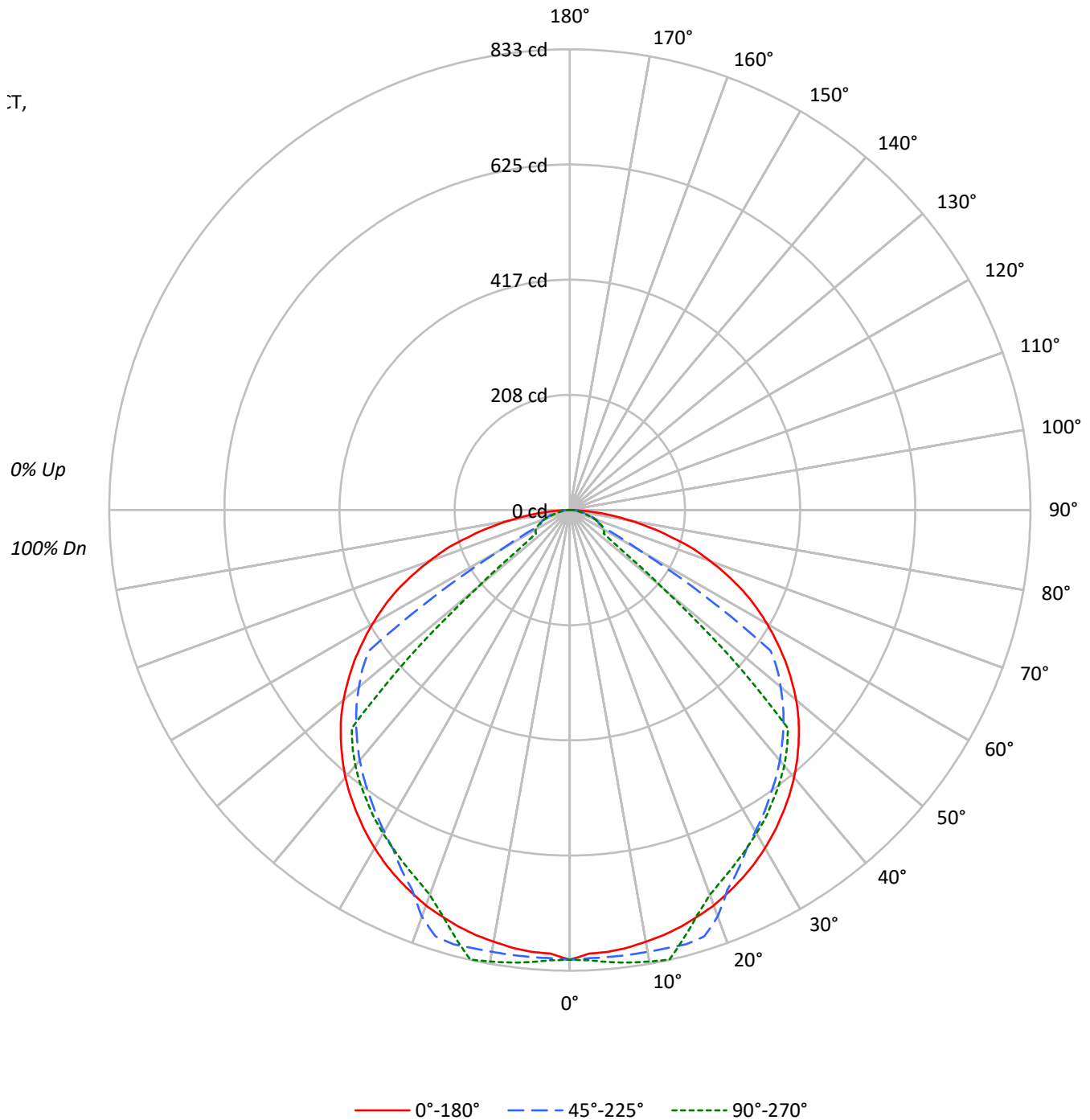
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1983.0 lumens
Efficiency: N/A
Efficacy: 118.7 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				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°	10557	10557	10557
5°	10453	10574	10695
10°	10449	10696	10929
15°	10479	10929	10755
20°	10513	10810	10230
25°	10541	10300	10127
30°	10583	10065	10122
35°	10627	10006	10155
40°	10699	10020	10226
45°	10752	10034	10240
50°	10793	10058	4426
55°	10765	10027	1689
60°	10702	3825	1841
65°	10628	1776	1890
70°	10266	1910	1769
75°	9588	1826	1545
80°	8435	1600	1324
85°	6675	1386	1117

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 10793 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.6	3.9
10°-20°	225.5	11.4
20°-30°	336.4	17.0
30°-40°	407.7	20.6
40°-50°	417.5	21.1
50°-60°	277.7	14.0
60°-70°	158.2	8.0
70°-80°	66.5	3.4
80°-90°	15.8	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°	639.5	32.2
0°-40°	1047.2	52.8
0°-60°	1742.4	87.9
0°-90°	1983.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1983.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	813	813	813	813	813	
5°	802	818	811	813	820	76
15°	780	801	813	810	800	220
25°	736	771	719	703	707	339
35°	670	682	631	634	641	420
45°	586	550	546	553	558	452
55°	476	435	443	97	75	425
65°	346	310	58	62	62	340
75°	191	40	36	32	31	203
85°	45	11	9	8	8	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	813.0	813.0	813.0	813.0	813.0
2.5°	802.8	819.6	811.2	812.1	814.9
5°	801.9	817.7	811.2	813.0	820.5
7.5°	798.1	814.9	811.2	816.8	825.2
10°	792.5	812.1	811.2	820.5	828.9
12.5°	786.9	806.5	811.2	825.2	832.6
15°	779.5	800.9	813.0	810.2	800.0
17.5°	770.2	795.3	808.4	768.3	767.4
20°	760.8	787.9	782.3	744.0	740.3
22.5°	748.7	780.4	744.0	717.9	722.6
25°	735.7	771.1	718.9	703.0	706.8
27.5°	721.7	761.8	691.8	686.2	690.9
30°	705.8	748.7	671.3	669.5	675.1
32.5°	689.0	723.5	651.7	652.7	659.2
35°	670.4	682.5	631.2	634.0	640.6
37.5°	651.7	644.3	611.6	616.3	622.8
40°	631.2	614.4	591.1	595.8	603.3
42.5°	608.9	582.7	568.8	575.3	581.8
45°	585.5	550.1	546.4	552.9	557.6
47.5°	561.3	522.1	523.1	527.7	395.3
50°	534.3	494.2	497.9	345.0	219.1
52.5°	505.4	465.3	472.7	192.1	111.0
55°	475.5	435.4	442.9	97.0	74.6
57.5°	443.8	405.6	289.0	69.9	73.7
60°	412.1	373.9	147.3	69.0	70.9
62.5°	379.5	342.2	69.9	66.2	67.1
65°	345.9	309.6	57.8	61.5	61.5
67.5°	308.6	275.1	55.0	55.0	54.1
70°	270.4	228.4	50.3	47.6	46.6
72.5°	235.0	87.6	43.8	39.2	38.2
75°	191.1	40.1	36.4	31.7	30.8
77.5°	152.0	33.6	28.9	25.2	24.2
80°	112.8	26.1	21.4	18.6	17.7
82.5°	78.3	17.7	14.9	12.1	12.1
85°	44.8	11.2	9.3	7.5	7.5
87.5°	17.7	5.6	4.7	2.8	2.8
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	21.11	22.64	21.48	22.95	23.26	8.88	10.40	9.24	10.71	11.03
	3H	23.13	24.49	23.51	24.82	25.18	11.19	12.55	11.57	12.88	13.24
	4H	23.60	24.87	24.00	25.22	25.60	11.91	13.18	12.31	13.53	13.91
	6H	24.00	25.18	24.42	25.54	25.94	12.39	13.56	12.80	13.93	14.32
	8H	24.15	25.27	24.58	25.66	26.06	12.53	13.64	12.95	14.03	14.43
	12H	24.25	25.32	24.68	25.70	26.13	12.62	13.68	13.05	14.06	14.49
4H	2H	20.96	22.23	21.36	22.58	22.95	9.68	10.95	10.08	11.30	11.68
	3H	23.16	24.21	23.57	24.61	25.01	12.19	13.24	12.60	13.64	14.04
	4H	23.61	24.55	24.04	24.96	25.40	13.01	13.95	13.44	14.36	14.80
	6H	24.07	24.89	24.53	25.33	25.79	13.60	14.42	14.06	14.86	15.32
	8H	24.26	25.02	24.73	25.47	25.94	13.77	14.53	14.23	14.98	15.44
	12H	24.42	25.09	24.90	25.57	26.04	13.89	14.57	14.37	15.05	15.52
8H	4H	23.52	24.29	23.99	24.73	25.20	13.85	14.61	14.31	15.05	15.52
	6H	23.98	24.61	24.48	25.10	25.58	14.47	15.10	14.97	15.59	16.07
	8H	24.18	24.75	24.70	25.26	25.75	14.67	15.23	15.18	15.74	16.23
	12H	24.37	24.87	24.88	25.36	25.93	14.83	15.33	15.34	15.82	16.39
12H	4H	23.49	24.17	23.98	24.65	25.12	13.92	14.60	14.40	15.08	15.55
	6H	23.94	24.50	24.45	25.01	25.50	14.56	15.13	15.08	15.64	16.13
	8H	24.16	24.66	24.67	25.15	25.72	14.81	15.32	15.32	15.81	16.37