

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: P894284

Luminaire Tested: 4MB-SC3-RFLW-UNV-CC83-LOW-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894284
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-CC83-LOW-5000K
Description: Selectable 4FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 80CRI, 5000K CC
LOW lumen setting
Light Source: -
Ballast/Driver: -

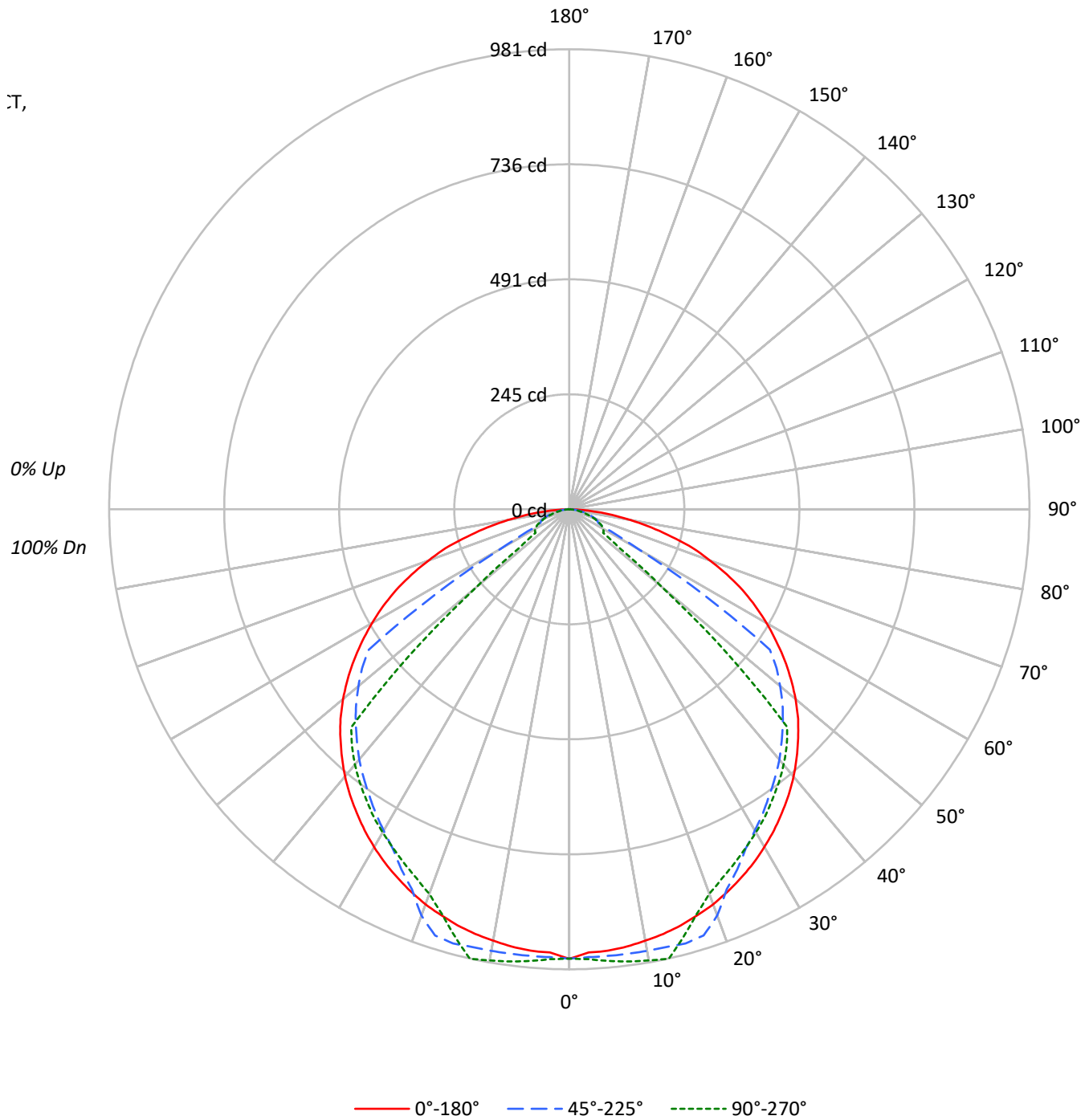
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2337.0 lumens
Efficiency: N/A
Efficacy: 139.9 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°	12442	12442	12442
5°	12318	12461	12605
10°	12315	12605	12881
15°	12349	12881	12674
20°	12391	12739	12057
25°	12422	12138	11933
30°	12472	11863	11929
35°	12525	11792	11967
40°	12610	11810	12050
45°	12673	11824	12067
50°	12719	11854	5216
55°	12687	11815	1990
60°	12614	4508	2169
65°	12527	2092	2228
70°	12100	2251	2084
75°	11303	2152	1821
80°	9945	1892	1563
85°	7852	1639	1311

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 12719 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.5	3.9
10°-20°	265.7	11.4
20°-30°	396.4	17.0
30°-40°	480.5	20.6
40°-50°	492.0	21.1
50°-60°	327.2	14.0
60°-70°	186.5	8.0
70°-80°	78.4	3.4
80°-90°	18.7	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°	753.7	32.2
0°-40°	1234.2	52.8
0°-60°	2053.5	87.9
0°-90°	2337.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2337.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	958	958	958	958	958	
5°	945	964	956	958	967	90
15°	919	944	958	955	943	259
25°	867	909	847	828	833	400
35°	790	804	744	747	755	495
45°	690	648	644	652	657	532
55°	560	513	522	114	88	500
65°	408	365	68	72	72	401
75°	225	47	43	37	36	239
85°	53	13	11	9	9	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	958.2	958.2	958.2	958.2	958.2
2.5°	946.1	965.9	956.0	957.1	960.4
5°	945.0	963.7	956.0	958.2	967.0
7.5°	940.6	960.4	956.0	962.6	972.5
10°	934.0	957.1	956.0	967.0	976.9
12.5°	927.4	950.5	956.0	972.5	981.3
15°	918.6	943.9	958.2	954.9	942.8
17.5°	907.6	937.3	952.7	905.4	904.3
20°	896.7	928.5	921.9	876.9	872.5
22.5°	882.4	919.7	876.9	846.1	851.6
25°	867.0	908.7	847.2	828.5	832.9
27.5°	850.5	897.8	815.3	808.7	814.2
30°	831.8	882.4	791.2	789.0	795.6
32.5°	812.0	852.7	768.1	769.2	776.9
35°	790.1	804.4	743.9	747.2	754.9
37.5°	768.1	759.3	720.8	726.3	734.0
40°	743.9	724.1	696.7	702.2	710.9
42.5°	717.5	686.8	670.3	678.0	685.7
45°	690.1	648.3	643.9	651.6	657.1
47.5°	661.5	615.4	616.4	621.9	465.9
50°	629.6	582.4	586.8	406.6	258.2
52.5°	595.6	548.3	557.1	226.4	130.8
55°	560.4	513.2	521.9	114.3	87.9
57.5°	523.0	478.0	340.6	82.4	86.8
60°	485.7	440.6	173.6	81.3	83.5
62.5°	447.2	403.3	82.4	78.0	79.1
65°	407.7	364.8	68.1	72.5	72.5
67.5°	363.7	324.2	64.8	64.8	63.7
70°	318.7	269.2	59.3	56.0	54.9
72.5°	276.9	103.3	51.6	46.2	45.1
75°	225.3	47.3	42.9	37.4	36.3
77.5°	179.1	39.6	34.1	29.7	28.6
80°	133.0	30.8	25.3	22.0	20.9
82.5°	92.3	20.9	17.6	14.3	14.3
85°	52.7	13.2	11.0	8.8	8.8
87.5°	20.9	6.6	5.5	3.3	3.3
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	21.68	23.21	22.05	23.52	23.83	9.45	10.97	9.81	11.28	11.60
	3H	23.70	25.06	24.08	25.39	25.75	11.76	13.12	12.14	13.45	13.81
	4H	24.17	25.44	24.57	25.79	26.17	12.48	13.75	12.88	14.10	14.48
	6H	24.57	25.75	24.99	26.11	26.51	12.96	14.14	13.37	14.50	14.89
	8H	24.72	25.84	25.15	26.23	26.63	13.10	14.22	13.53	14.61	15.01
	12H	24.82	25.89	25.25	26.27	26.70	13.19	14.25	13.62	14.64	15.07
4H	2H	21.53	22.80	21.93	23.15	23.53	10.25	11.52	10.65	11.87	12.25
	3H	23.73	24.78	24.14	25.18	25.58	12.76	13.80	13.17	14.20	14.61
	4H	24.18	25.12	24.61	25.53	25.97	13.58	14.52	14.01	14.93	15.37
	6H	24.64	25.46	25.10	25.90	26.36	14.17	14.99	14.63	15.43	15.89
	8H	24.83	25.60	25.30	26.04	26.51	14.34	15.10	14.81	15.55	16.02
	12H	24.99	25.67	25.47	26.14	26.62	14.46	15.14	14.94	15.62	16.09
8H	4H	24.10	24.86	24.56	25.30	25.77	14.42	15.18	14.88	15.62	16.09
	6H	24.56	25.18	25.05	25.68	26.15	15.04	15.67	15.54	16.16	16.64
	8H	24.76	25.32	25.27	25.83	26.32	15.24	15.81	15.76	16.32	16.81
	12H	24.94	25.44	25.45	25.93	26.50	15.40	15.90	15.91	16.39	16.96
12H	4H	24.07	24.74	24.55	25.22	25.69	14.49	15.17	14.97	15.65	16.12
	6H	24.51	25.08	25.02	25.59	26.07	15.14	15.70	15.65	16.21	16.70
	8H	24.73	25.23	25.24	25.73	26.29	15.39	15.89	15.90	16.38	16.95