

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: P894282

Luminaire Tested: 4MB-SC3-RFLW-UNV-CC83-LOW-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894282
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-3500K
Description: Selectable 4FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 80CRI, 3500K CC
LOW lumen setting
Light Source: -
Ballast/Driver: -

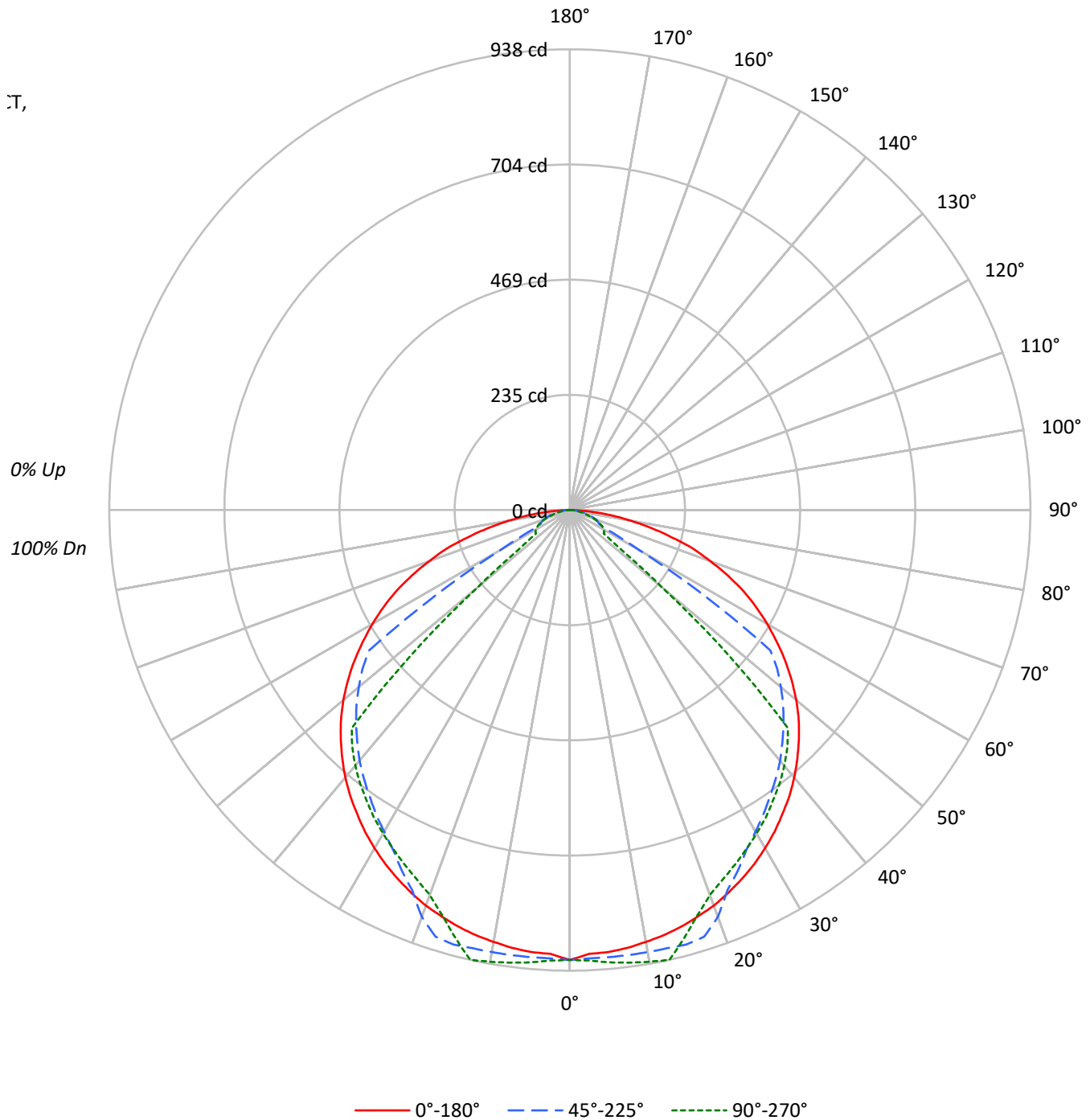
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2234.0 lumens
Efficiency: N/A
Efficacy: 133.8 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

TEST NUMBER: P894282
CATALOG NUMBER: 4MB-SC3-RFLW-UNV-CC83-LOW-3500K

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°	11894	11894	11894
5°	11776	11912	12049
10°	11772	12050	12313
15°	11804	12314	12116
20°	11844	12178	11525
25°	11875	11604	11408
30°	11923	11340	11403
35°	11971	11272	11439
40°	12054	11289	11520
45°	12115	11303	11534
50°	12159	11331	4986
55°	12128	11294	1902
60°	12058	4311	2072
65°	11974	2000	2129
70°	11564	2153	1993
75°	10802	2057	1741
80°	9504	1810	1496
85°	7509	1564	1251

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 12159 cd/sqm



TEST NUMBER: P894282

CATALOG NUMBER: 4MB-SC3-RFLW-UNV-CC83-LOW-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.5	3.9
10°-20°	254.0	11.4
20°-30°	379.0	17.0
30°-40°	459.4	20.6
40°-50°	470.3	21.1
50°-60°	312.8	14.0
60°-70°	178.3	8.0
70°-80°	74.9	3.4
80°-90°	17.9	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°	720.4	32.2
0°-40°	1179.8	52.8
0°-60°	1962.9	87.9
0°-90°	2234.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2234.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	916	916	916	916	916	
5°	903	921	914	916	924	86
15°	878	902	916	913	901	248
25°	829	869	810	792	796	382
35°	755	769	711	714	722	473
45°	660	620	616	623	628	509
55°	536	490	499	109	84	478
65°	390	349	65	69	69	383
75°	215	45	41	36	35	229
85°	50	13	10	8	8	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	916.0	916.0	916.0	916.0	916.0
2.5°	904.4	923.3	913.9	914.9	918.1
5°	903.4	921.2	913.9	916.0	924.4
7.5°	899.2	918.1	913.9	920.2	929.6
10°	892.8	914.9	913.9	924.4	933.8
12.5°	886.5	908.6	913.9	929.6	938.0
15°	878.1	902.3	916.0	912.8	901.3
17.5°	867.6	896.0	910.7	865.5	864.5
20°	857.1	887.6	881.3	838.2	834.0
22.5°	843.5	879.2	838.2	808.8	814.1
25°	828.8	868.7	809.9	792.0	796.2
27.5°	813.0	858.2	779.4	773.1	778.4
30°	795.2	843.5	756.3	754.2	760.5
32.5°	776.3	815.1	734.2	735.3	742.6
35°	755.2	768.9	711.1	714.3	721.6
37.5°	734.2	725.8	689.1	694.3	701.7
40°	711.1	692.2	666.0	671.2	679.6
42.5°	685.9	656.5	640.7	648.1	655.5
45°	659.7	619.7	615.5	622.9	628.1
47.5°	632.3	588.2	589.3	594.5	445.4
50°	601.9	556.7	560.9	388.7	246.8
52.5°	569.3	524.2	532.6	216.4	125.0
55°	535.7	490.5	498.9	109.2	84.0
57.5°	500.0	456.9	325.6	78.8	83.0
60°	464.3	421.2	166.0	77.7	79.8
62.5°	427.5	385.5	78.8	74.6	75.6
65°	389.7	348.7	65.1	69.3	69.3
67.5°	347.7	309.9	62.0	62.0	60.9
70°	304.6	257.4	56.7	53.6	52.5
72.5°	264.7	98.7	49.4	44.1	43.1
75°	215.3	45.2	41.0	35.7	34.7
77.5°	171.2	37.8	32.6	28.4	27.3
80°	127.1	29.4	24.2	21.0	20.0
82.5°	88.2	20.0	16.8	13.7	13.7
85°	50.4	12.6	10.5	8.4	8.4
87.5°	20.0	6.3	5.3	3.2	3.2
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	21.53	23.05	21.89	23.36	23.68	9.29	10.82	9.66	11.13	11.44
	3H	23.55	24.91	23.93	25.23	25.60	11.61	12.97	11.99	13.30	13.66
	4H	24.01	25.28	24.41	25.63	26.01	12.32	13.59	12.72	13.94	14.32
	6H	24.42	25.59	24.83	25.96	26.35	12.81	13.98	13.22	14.35	14.74
	8H	24.57	25.68	24.99	26.07	26.47	12.95	14.06	13.37	14.45	14.85
	12H	24.66	25.73	25.10	26.11	26.54	13.03	14.10	13.46	14.48	14.91
4H	2H	21.37	22.64	21.77	22.99	23.37	10.09	11.36	10.49	11.71	12.09
	3H	23.57	24.62	23.98	25.02	25.42	12.60	13.65	13.01	14.05	14.45
	4H	24.02	24.96	24.45	25.38	25.81	13.42	14.36	13.86	14.78	15.22
	6H	24.49	25.30	24.94	25.74	26.20	14.02	14.83	14.47	15.27	15.73
	8H	24.68	25.44	25.14	25.88	26.35	14.19	14.95	14.65	15.39	15.86
	12H	24.83	25.51	25.31	25.99	26.46	14.31	14.98	14.79	15.46	15.93
8H	4H	23.94	24.70	24.40	25.14	25.61	14.26	15.02	14.73	15.47	15.94
	6H	24.40	25.03	24.90	25.52	26.00	14.89	15.51	15.38	16.01	16.48
	8H	24.60	25.16	25.11	25.67	26.16	15.09	15.65	15.60	16.16	16.65
	12H	24.78	25.28	25.29	25.78	26.34	15.24	15.75	15.75	16.24	16.80
12H	4H	23.91	24.59	24.39	25.07	25.54	14.33	15.01	14.82	15.49	15.96
	6H	24.35	24.92	24.87	25.43	25.92	14.98	15.54	15.49	16.06	16.54
	8H	24.57	25.08	25.08	25.57	26.13	15.23	15.74	15.74	16.23	16.79