

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: P892674

Luminaire Tested: 2MB-3SL-RFLW-UNV-L935

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892674
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-3SL-RFLW-UNV-L935
Description: 3000 Lumen 2FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 90CRI, 3500K
Light Source: -
Ballast/Driver: -

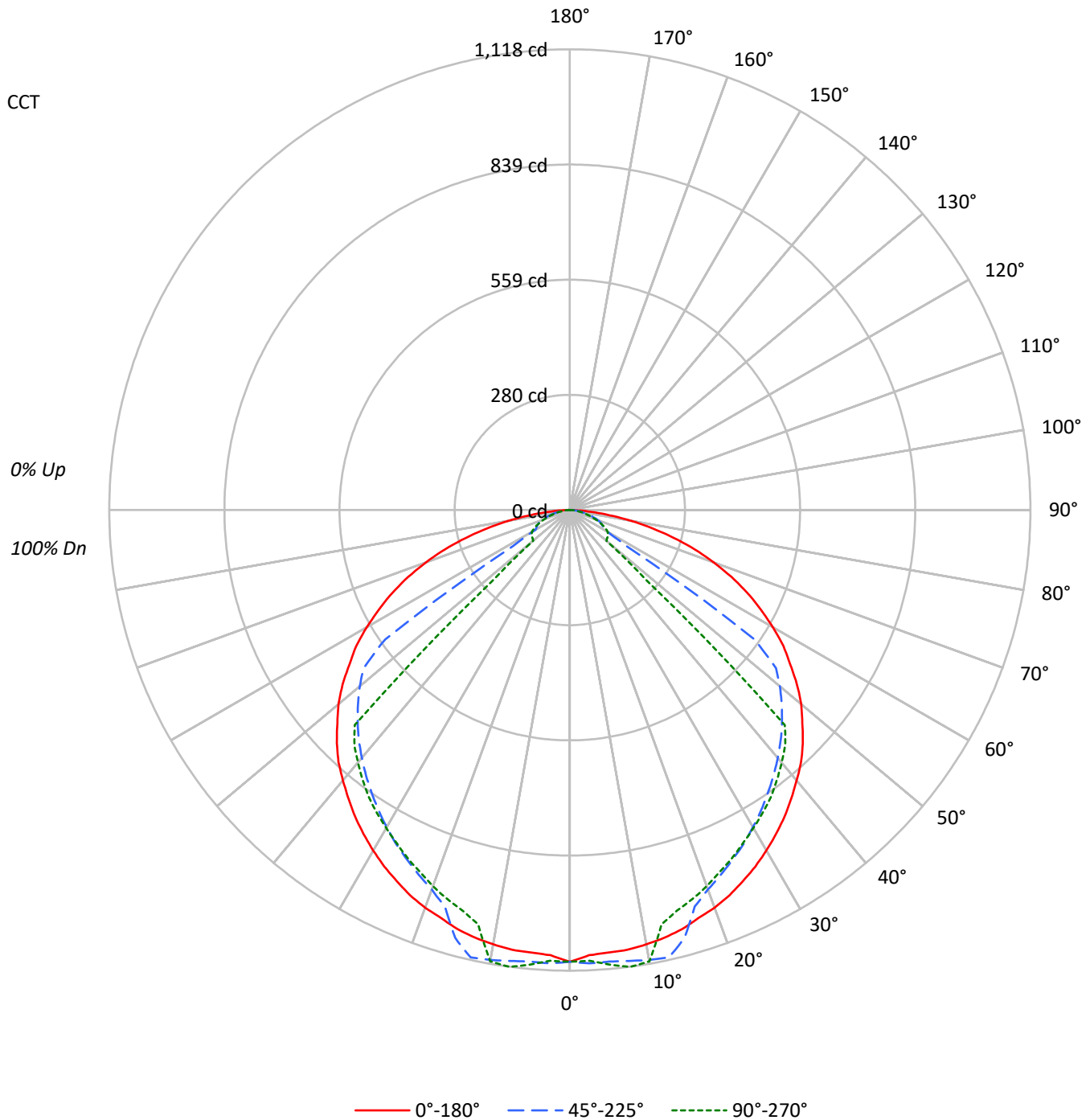
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2574.0 lumens
Efficiency: N/A
Efficacy: 122.6 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): 21
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 8
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P892674
CATALOG NUMBER: 2MB-3SL-RFLW-UNV-L935

Luminous Intensity Polar Plot





TEST NUMBER: P892674

CATALOG NUMBER: 2MB-3SL-RFLW-UNV-L935

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	80	77	77	77	77	75
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	67	67	67	67	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	58	58	58	56
5	80	68	59	53	77	67	59	53	64	58	52	63	57	52	61	55	51	51	51	51	49
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46	46	46	46	44
7	69	56	48	42	67	55	47	42	53	46	41	52	46	41	51	45	41	41	41	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	42	37	47	41	37	37	37	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	37	33	33	33	33	32
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	30	30	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	28620	28620	28620
5°	28244	28826	29020
10°	28374	29387	29485
15°	28461	29062	27194
20°	28536	27231	26992
25°	28625	26955	26848
30°	28766	26795	26870
35°	28959	26715	27107
40°	29198	26757	27262
45°	29534	26890	27256
50°	29784	27026	4712
55°	29723	24894	5112
60°	29716	5028	5545
65°	29362	5338	5492
70°	28366	5557	5092
75°	26399	5225	4479
80°	22643	4646	3894
85°	15157	4433	3325

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 29874 cd/sqm



TEST NUMBER: P892674
 CATALOG NUMBER: 2MB-3SL-RFLW-UNV-L935

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.1	4.1
10°-20°	296.2	11.5
20°-30°	443.2	17.2
30°-40°	534.4	20.8
40°-50°	538.1	20.9
50°-60°	335.7	13.0
60°-70°	211.1	8.2
70°-80°	87.8	3.4
80°-90°	22.5	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°	844.5	32.8
0°-40°	1378.8	53.6
0°-60°	2252.7	87.5
0°-90°	2574.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2574.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1096	1096	1096	1096	1096	
5°	1078	1100	1100	1101	1107	103
15°	1053	1085	1075	1006	1006	297
25°	994	1032	936	928	932	459
35°	909	850	838	843	850	569
45°	800	723	728	738	738	616
55°	653	575	547	107	112	585
65°	475	411	86	90	89	468
75°	262	63	52	46	44	276
85°	51	18	15	11	11	66
90°	0	0	0	0	0	



TEST NUMBER: P892674

CATALOG NUMBER: 2MB-3SL-RFLW-UNV-L935

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1096.2	1096.2	1096.2	1096.2	1096.2
2.5°	1081.4	1101.1	1101.1	1096.2	1095.0
5°	1077.7	1099.9	1099.9	1101.1	1107.3
7.5°	1076.4	1097.4	1103.6	1111.0	1118.4
10°	1070.3	1095.0	1108.5	1118.4	1112.2
12.5°	1062.9	1090.0	1112.2	1049.3	1029.5
15°	1053.0	1085.1	1075.2	1006.1	1006.1
17.5°	1038.2	1077.7	1008.5	988.8	990.0
20°	1027.1	1071.5	980.1	969.0	971.5
22.5°	1012.2	1059.2	957.9	948.1	950.5
25°	993.7	1032.0	935.7	928.3	932.0
27.5°	975.2	976.4	913.5	908.6	911.0
30°	954.2	923.4	888.8	887.6	891.3
32.5°	932.0	883.9	864.1	866.6	871.5
35°	908.6	850.5	838.2	843.1	850.5
37.5°	882.6	819.7	812.3	820.9	825.8
40°	856.7	787.6	785.1	793.7	799.9
42.5°	830.8	756.7	757.9	766.6	774.0
45°	799.9	723.4	728.3	738.2	738.2
47.5°	765.4	687.6	697.5	676.5	250.6
50°	733.3	651.8	665.4	200.0	116.0
52.5°	695.0	613.5	630.8	109.9	113.6
55°	653.0	575.3	546.9	107.4	112.3
57.5°	614.8	535.7	162.9	106.2	109.9
60°	569.1	496.2	96.3	103.7	106.2
62.5°	522.2	454.3	91.3	98.8	98.8
65°	475.3	411.1	86.4	90.1	88.9
67.5°	424.6	366.6	81.5	79.0	77.8
70°	371.6	225.9	72.8	67.9	66.7
72.5°	318.5	77.8	63.0	56.8	55.5
75°	261.7	63.0	51.8	45.7	44.4
77.5°	206.2	51.8	40.7	35.8	34.6
80°	150.6	39.5	30.9	27.2	25.9
82.5°	97.5	28.4	23.5	18.5	17.3
85°	50.6	18.5	14.8	11.1	11.1
87.5°	19.8	11.1	7.4	4.9	3.7
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P892674
 CATALOG NUMBER: 2MB-3SL-RFLW-UNV-L935

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	24.65	26.16	25.01	26.47	26.79	13.29	14.80	13.65	15.11	15.43
	3H	26.57	27.92	26.94	28.25	28.61	15.42	16.77	15.79	17.10	17.46
	4H	27.05	28.32	27.45	28.67	29.04	16.10	17.37	16.50	17.72	18.10
	6H	27.49	28.65	27.90	29.02	29.41	16.56	17.73	16.98	18.10	18.49
	8H	27.63	28.74	28.05	29.13	29.53	16.70	17.81	17.13	18.20	18.60
	12H	27.70	28.76	28.13	29.15	29.58	16.79	17.85	17.22	18.23	18.66
4H	2H	24.49	25.76	24.89	26.11	26.48	14.04	15.30	14.44	15.65	16.03
	3H	26.52	27.56	26.93	27.96	28.36	16.38	17.42	16.79	17.82	18.22
	4H	27.01	27.94	27.44	28.36	28.80	17.17	18.11	17.61	18.52	18.96
	6H	27.52	28.33	27.98	28.78	29.24	17.75	18.56	18.20	19.00	19.46
	8H	27.71	28.46	28.17	28.91	29.38	17.92	18.67	18.38	19.12	19.59
	12H	27.83	28.51	28.31	28.99	29.46	18.04	18.71	18.52	19.19	19.66
8H	4H	26.93	27.69	27.40	28.13	28.60	17.76	18.52	18.22	18.96	19.43
	6H	27.44	28.07	27.94	28.56	29.04	18.41	19.04	18.91	19.53	20.01
	8H	27.64	28.20	28.16	28.72	29.20	18.64	19.20	19.15	19.71	20.20
	12H	27.80	28.30	28.31	28.79	29.36	18.81	19.31	19.32	19.80	20.37
12H	4H	26.90	27.58	27.38	28.06	28.53	17.84	18.52	18.32	19.00	19.47
	6H	27.40	27.96	27.91	28.47	28.96	18.52	19.09	19.04	19.60	20.09
	8H	27.62	28.12	28.13	28.61	29.18	18.81	19.31	19.32	19.80	20.36