

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: P892676

Luminaire Tested: 2MB-3SL-RFLW-UNV-L950

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892676
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-L950
Description: 3000 Lumen 2FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 90CRI, 5000K
Light Source: -
Ballast/Driver: -

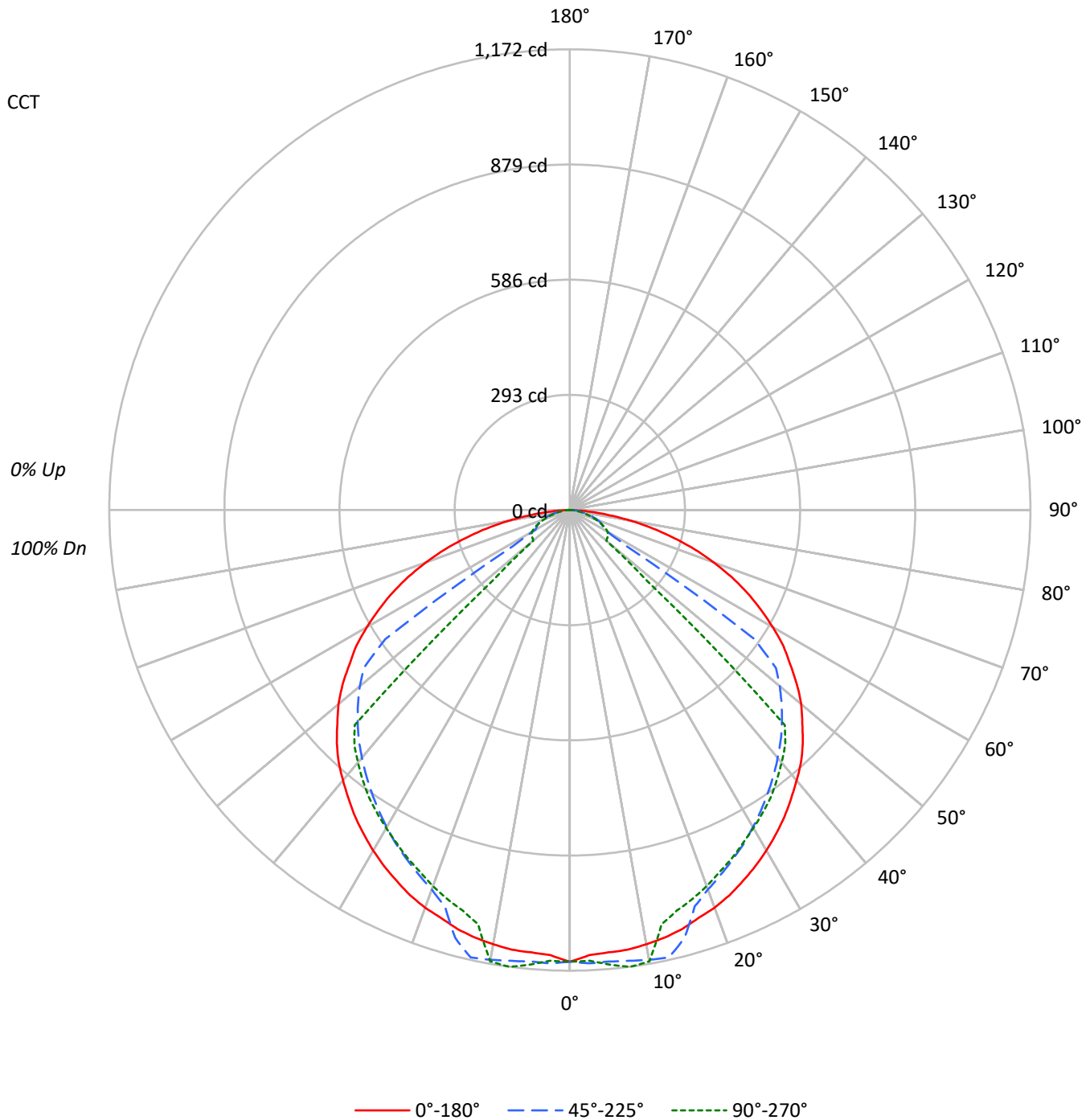
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2698.0 lumens
Efficiency: N/A
Efficacy: 128.5 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: P892676
CATALOG NUMBER: 2MB-3SL-RFLW-UNV-L950

Luminous Intensity Polar Plot





TEST NUMBER: P892676

CATALOG NUMBER: 2MB-3SL-RFLW-UNV-L950

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°	29998	29998	29998
5°	29604	30215	30417
10°	29740	30803	30906
15°	29832	30462	28502
20°	29909	28545	28292
25°	30005	28254	28141
30°	30153	28085	28163
35°	30352	28003	28414
40°	30605	28046	28577
45°	30959	28186	28570
50°	31218	28326	4939
55°	31157	26091	5357
60°	31147	5269	5812
65°	30777	5597	5758
70°	29732	5824	5336
75°	27670	5477	4701
80°	23740	4856	4090
85°	15906	4643	3475

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 31312 cd/sqm



TEST NUMBER: P892676
 CATALOG NUMBER: 2MB-3SL-RFLW-UNV-L950

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.1	4.1
10°-20°	310.4	11.5
20°-30°	464.6	17.2
30°-40°	560.1	20.8
40°-50°	564.0	20.9
50°-60°	351.9	13.0
60°-70°	221.2	8.2
70°-80°	92.0	3.4
80°-90°	23.6	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°	885.1	32.8
0°-40°	1445.3	53.6
0°-60°	2361.2	87.5
0°-90°	2698.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2698.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1149	1149	1149	1149	1149	
5°	1130	1153	1153	1154	1161	108
15°	1104	1137	1127	1054	1054	311
25°	1042	1082	981	973	977	481
35°	952	892	879	884	892	596
45°	838	758	763	774	774	646
55°	684	603	573	113	118	613
65°	498	431	91	94	93	491
75°	274	66	54	48	47	289
85°	53	19	16	12	12	69
90°	0	0	0	0	0	



TEST NUMBER: P892676

CATALOG NUMBER: 2MB-3SL-RFLW-UNV-L950

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1149.0	1149.0	1149.0	1149.0	1149.0
2.5°	1133.5	1154.2	1154.2	1149.0	1147.7
5°	1129.6	1152.9	1152.9	1154.2	1160.6
7.5°	1128.3	1150.3	1156.8	1164.5	1172.3
10°	1121.8	1147.7	1161.9	1172.3	1165.8
12.5°	1114.1	1142.5	1165.8	1099.8	1079.1
15°	1103.7	1137.3	1127.0	1054.5	1054.5
17.5°	1088.2	1129.6	1057.1	1036.4	1037.7
20°	1076.5	1123.1	1027.4	1015.7	1018.3
22.5°	1061.0	1110.2	1004.1	993.7	996.3
25°	1041.6	1081.7	980.8	973.0	976.9
27.5°	1022.2	1023.5	957.5	952.3	954.9
30°	1000.2	967.8	931.6	930.3	934.2
32.5°	976.9	926.4	905.7	908.3	913.5
35°	952.3	891.5	878.6	883.7	891.5
37.5°	925.1	859.2	851.4	860.5	865.6
40°	898.0	825.5	822.9	832.0	838.5
42.5°	870.8	793.2	794.5	803.5	811.3
45°	838.5	758.2	763.4	773.8	773.8
47.5°	802.2	720.7	731.1	709.1	262.7
50°	768.6	683.2	697.4	209.6	121.6
52.5°	728.5	643.1	661.2	115.2	119.0
55°	684.5	603.0	573.2	112.6	117.7
57.5°	644.4	561.6	170.8	111.3	115.2
60°	596.5	520.2	100.9	108.7	111.3
62.5°	547.3	476.2	95.7	103.5	103.5
65°	498.2	430.9	90.6	94.5	93.2
67.5°	445.1	384.3	85.4	82.8	81.5
70°	389.5	236.8	76.3	71.2	69.9
72.5°	333.8	81.5	66.0	59.5	58.2
75°	274.3	66.0	54.3	47.9	46.6
77.5°	216.1	54.3	42.7	37.5	36.2
80°	157.9	41.4	32.3	28.5	27.2
82.5°	102.2	29.8	24.6	19.4	18.1
85°	53.1	19.4	15.5	11.6	11.6
87.5°	20.7	11.6	7.8	5.2	3.9
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P892676
 CATALOG NUMBER: 2MB-3SL-RFLW-UNV-L950

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	24.81	26.32	25.17	26.64	26.95	13.45	14.96	13.81	15.28	15.59
	3H	26.73	28.08	27.11	28.41	28.77	15.58	16.93	15.96	17.26	17.62
	4H	27.21	28.48	27.61	28.83	29.21	16.27	17.53	16.67	17.88	18.26
	6H	27.65	28.82	28.06	29.18	29.58	16.73	17.89	17.14	18.26	18.65
	8H	27.79	28.90	28.22	29.29	29.69	16.86	17.97	17.29	18.36	18.76
	12H	27.87	28.93	28.30	29.31	29.74	16.95	18.01	17.38	18.39	18.82
4H	2H	24.66	25.92	25.06	26.27	26.65	14.20	15.47	14.60	15.82	16.19
	3H	26.68	27.73	27.09	28.13	28.53	16.54	17.59	16.95	17.99	18.39
	4H	27.17	28.11	27.60	28.52	28.96	17.34	18.27	17.77	18.69	19.13
	6H	27.68	28.50	28.14	28.94	29.40	17.91	18.72	18.37	19.16	19.62
	8H	27.87	28.63	28.33	29.07	29.54	18.08	18.84	18.54	19.28	19.75
	12H	28.00	28.67	28.48	29.15	29.62	18.20	18.88	18.68	19.35	19.83
8H	4H	27.10	27.85	27.56	28.30	28.77	17.92	18.68	18.39	19.13	19.59
	6H	27.61	28.23	28.10	28.72	29.20	18.58	19.20	19.07	19.69	20.17
	8H	27.81	28.37	28.32	28.88	29.37	18.80	19.36	19.31	19.87	20.36
	12H	27.97	28.46	28.48	28.96	29.52	18.97	19.47	19.48	19.96	20.53
12H	4H	27.07	27.74	27.55	28.22	28.69	18.00	18.68	18.49	19.16	19.63
	6H	27.56	28.13	28.08	28.64	29.13	18.69	19.25	19.20	19.76	20.25
	8H	27.79	28.28	28.30	28.78	29.34	18.97	19.47	19.48	19.96	20.53