

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: P892560

Luminaire Tested: 2MB-2SL-RFLW-UNV-L850

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892560
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-2SL-RFLW-UNV-L850
Description: 2000 Lumen 2FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 80CRI, 5000K
Light Source: -
Ballast/Driver: -

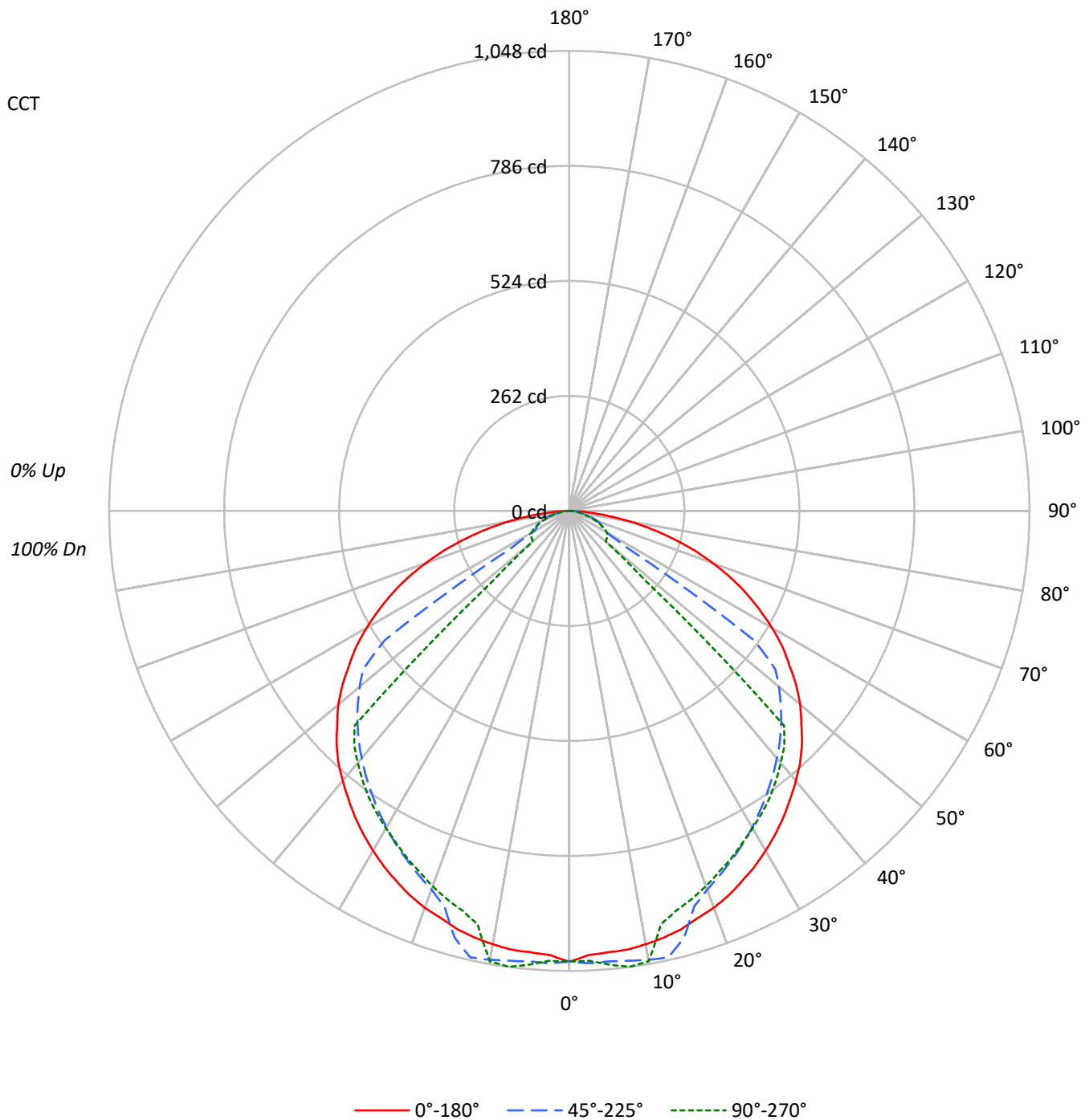
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2411.0 lumens
Efficiency: N/A
Efficacy: 161.8 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): 14.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 5.92
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P892560
CATALOG NUMBER: 2MB-2SL-RFLW-UNV-L850

Luminous Intensity Polar Plot





TEST NUMBER: P892560

CATALOG NUMBER: 2MB-2SL-RFLW-UNV-L850

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°	26808	26808	26808
5°	26454	26999	27183
10°	26577	27526	27619
15°	26659	27221	25472
20°	26728	25508	25283
25°	26813	25249	25148
30°	26945	25097	25167
35°	27123	25023	25392
40°	27350	25064	25537
45°	27666	25188	25532
50°	27896	25312	4415
55°	27843	23314	4788
60°	27831	4710	5190
65°	27503	4998	5146
70°	26564	5206	4763
75°	24724	4902	4196
80°	21214	4345	3653
85°	14199	4164	3115

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 27979 cd/sqm



TEST NUMBER: P892560
 CATALOG NUMBER: 2MB-2SL-RFLW-UNV-L850

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.4	4.1
10°-20°	277.4	11.5
20°-30°	415.2	17.2
30°-40°	500.5	20.8
40°-50°	504.0	20.9
50°-60°	314.4	13.0
60°-70°	197.7	8.2
70°-80°	82.2	3.4
80°-90°	21.1	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°	791.0	32.8
0°-40°	1291.5	53.6
0°-60°	2110.0	87.5
0°-90°	2411.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2411.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1027	1027	1027	1027	1027	
5°	1009	1030	1030	1031	1037	96
15°	986	1016	1007	942	942	278
25°	931	967	876	870	873	430
35°	851	797	785	790	797	533
45°	749	678	682	692	692	577
55°	612	539	512	101	105	548
65°	445	385	81	84	83	439
75°	245	59	49	43	42	259
85°	47	17	14	10	10	62
90°	0	0	0	0	0	



TEST NUMBER: P892560

CATALOG NUMBER: 2MB-2SL-RFLW-UNV-L850

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1026.8	1026.8	1026.8	1026.8	1026.8
2.5°	1012.9	1031.4	1031.4	1026.8	1025.6
5°	1009.4	1030.2	1030.2	1031.4	1037.2
7.5°	1008.3	1027.9	1033.7	1040.6	1047.6
10°	1002.5	1025.6	1038.3	1047.6	1041.8
12.5°	995.6	1021.0	1041.8	982.8	964.3
15°	986.3	1016.4	1007.1	942.4	942.4
17.5°	972.4	1009.4	944.7	926.2	927.3
20°	962.0	1003.6	918.1	907.7	910.0
22.5°	948.1	992.1	897.3	888.0	890.3
25°	930.8	966.6	876.5	869.5	873.0
27.5°	913.5	914.6	855.6	851.0	853.3
30°	893.8	864.9	832.5	831.4	834.8
32.5°	873.0	827.9	809.4	811.7	816.3
35°	851.0	796.7	785.1	789.7	796.7
37.5°	826.7	767.8	760.8	768.9	773.5
40°	802.5	737.7	735.4	743.5	749.3
42.5°	778.2	708.8	710.0	718.0	725.0
45°	749.3	677.6	682.2	691.5	691.5
47.5°	716.9	644.0	653.3	633.6	234.7
50°	686.8	610.5	623.2	187.3	108.7
52.5°	651.0	574.7	590.9	102.9	106.4
55°	611.7	538.8	512.2	100.6	105.2
57.5°	575.8	501.8	152.6	99.4	102.9
60°	533.0	464.8	90.2	97.1	99.4
62.5°	489.1	425.5	85.6	92.5	92.5
65°	445.2	385.0	80.9	84.4	83.3
67.5°	397.8	343.4	76.3	74.0	72.8
70°	348.0	211.6	68.2	63.6	62.4
72.5°	298.3	72.8	59.0	53.2	52.0
75°	245.1	59.0	48.6	42.8	41.6
77.5°	193.1	48.6	38.2	33.5	32.4
80°	141.1	37.0	28.9	25.4	24.3
82.5°	91.3	26.6	22.0	17.3	16.2
85°	47.4	17.3	13.9	10.4	10.4
87.5°	18.5	10.4	6.9	4.6	3.5
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P892560
 CATALOG NUMBER: 2MB-2SL-RFLW-UNV-L850

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	24.42	25.93	24.78	26.24	26.56	13.05	14.57	13.42	14.88	15.20
	3H	26.34	27.69	26.72	28.02	28.38	15.19	16.54	15.56	16.87	17.23
	4H	26.82	28.09	27.22	28.44	28.82	15.87	17.14	16.27	17.49	17.87
	6H	27.26	28.43	27.67	28.79	29.19	16.33	17.50	16.75	17.87	18.26
	8H	27.40	28.51	27.82	28.90	29.30	16.47	17.58	16.90	17.97	18.37
	12H	27.47	28.54	27.90	28.92	29.35	16.56	17.62	16.99	18.00	18.43
4H	2H	24.26	25.53	24.66	25.88	26.26	13.81	15.07	14.21	15.42	15.80
	3H	26.29	27.34	26.70	27.74	28.14	16.15	17.19	16.56	17.59	17.99
	4H	26.78	27.72	27.21	28.13	28.57	16.94	17.88	17.38	18.30	18.73
	6H	27.29	28.11	27.75	28.55	29.01	17.52	18.33	17.97	18.77	19.23
	8H	27.48	28.24	27.94	28.68	29.15	17.69	18.44	18.15	18.89	19.36
	12H	27.60	28.28	28.09	28.76	29.23	17.81	18.48	18.29	18.96	19.43
8H	4H	26.70	27.46	27.17	27.91	28.38	17.53	18.29	18.00	18.73	19.20
	6H	27.22	27.84	27.71	28.33	28.81	18.18	18.81	18.68	19.30	19.78
	8H	27.41	27.98	27.93	28.49	28.98	18.41	18.97	18.92	19.48	19.97
	12H	27.57	28.07	28.09	28.57	29.13	18.58	19.08	19.09	19.57	20.14
12H	4H	26.67	27.35	27.16	27.83	28.30	17.61	18.29	18.10	18.77	19.24
	6H	27.17	27.74	27.69	28.25	28.73	18.29	18.86	18.81	19.37	19.86
	8H	27.40	27.89	27.91	28.39	28.95	18.58	19.08	19.09	19.57	20.13