

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: P892671

Luminaire Tested: 2MB-3SL-RFLW-UNV-L840

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892671
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-L840
Description: 3000 Lumen 2FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 80CRI, 4000K
Light Source: -
Ballast/Driver: -

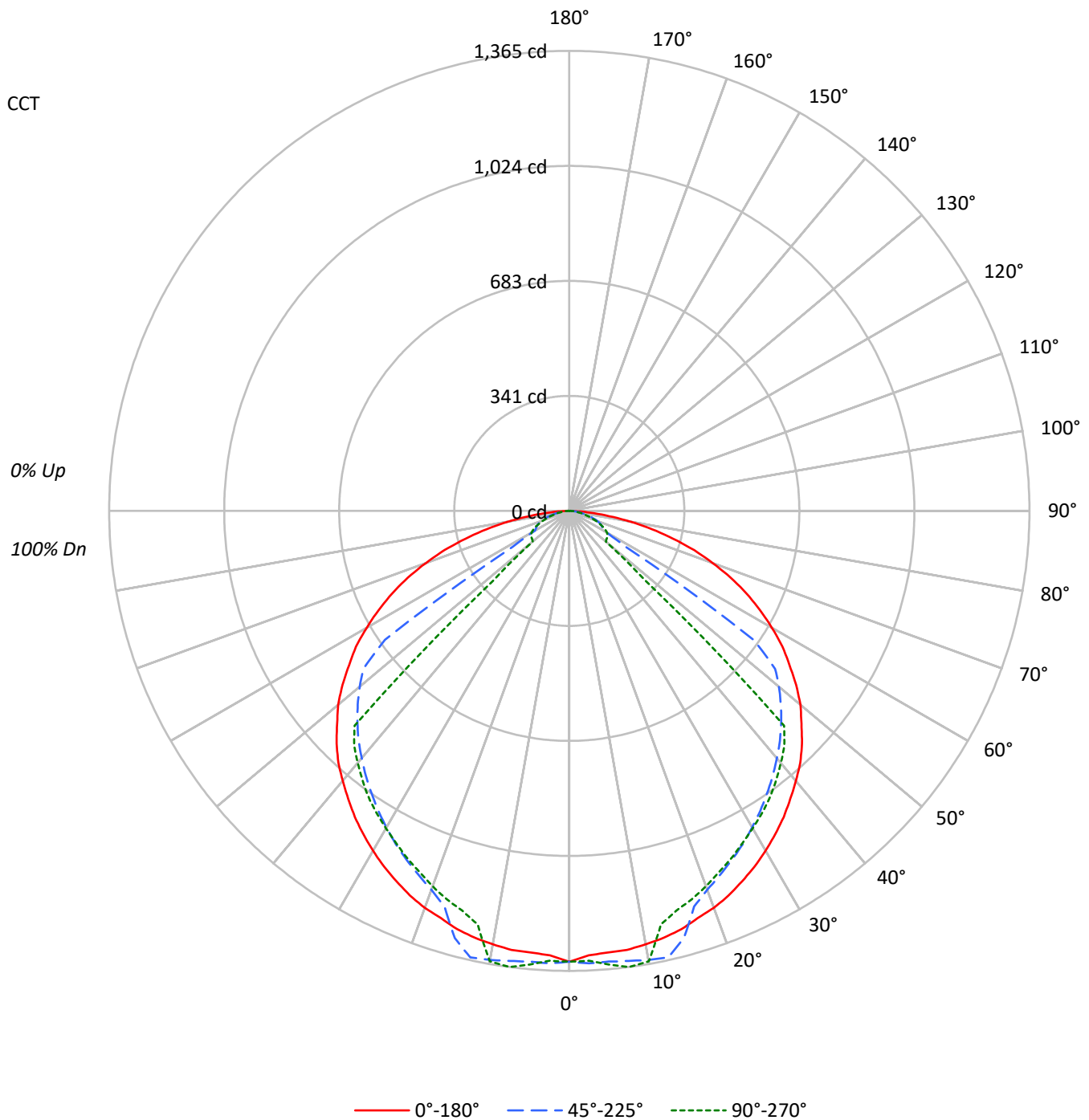
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3141.0 lumens
Efficiency: N/A
Efficacy: 149.6 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

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Luminous Intensity Polar Plot





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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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	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	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	77	77	75
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	67	67	67	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	58	58	56
5	80	68	59	53	77	67	59	53	64	58	52	63	57	52	61	55	51	51	51	49
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46	46	46	44
7	69	56	48	42	67	55	47	42	53	46	41	52	46	41	51	45	41	41	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	42	37	47	41	37	37	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	37	33	33	33	32
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	30	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	34925	34925	34925
5°	34466	35176	35412
10°	34623	35861	35980
15°	34729	35462	33183
20°	34821	33232	32937
25°	34931	32892	32762
30°	35103	32697	32788
35°	35336	32599	33080
40°	35629	32650	33267
45°	36040	32816	33260
50°	36344	32977	5751
55°	36273	30374	6240
60°	36259	6135	6762
65°	35830	6511	6703
70°	34610	6786	6206
75°	32209	6385	5467
80°	27634	5668	4751
85°	18513	5422	4074

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 36453 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.2	4.1
10°-20°	361.4	11.5
20°-30°	540.9	17.2
30°-40°	652.1	20.8
40°-50°	656.6	20.9
50°-60°	409.7	13.0
60°-70°	257.6	8.2
70°-80°	107.1	3.4
80°-90°	27.5	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°	1030.5	32.8
0°-40°	1682.6	53.6
0°-60°	2748.9	87.5
0°-90°	3141.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3141.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1338	1338	1338	1338	1338	
5°	1315	1342	1342	1344	1351	125
15°	1285	1324	1312	1228	1228	363
25°	1213	1259	1142	1133	1137	560
35°	1109	1038	1023	1029	1038	694
45°	976	883	889	901	901	752
55°	797	702	667	131	137	714
65°	580	502	105	110	108	572
75°	319	77	63	56	54	337
85°	62	23	18	14	14	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1337.7	1337.7	1337.7	1337.7	1337.7
2.5°	1319.6	1343.7	1343.7	1337.7	1336.1
5°	1315.1	1342.2	1342.2	1343.7	1351.2
7.5°	1313.6	1339.2	1346.7	1355.7	1364.8
10°	1306.0	1336.1	1352.7	1364.8	1357.2
12.5°	1297.0	1330.1	1357.2	1280.4	1256.3
15°	1284.9	1324.1	1312.0	1227.7	1227.7
17.5°	1266.9	1315.1	1230.7	1206.6	1208.1
20°	1253.3	1307.5	1196.1	1182.5	1185.5
22.5°	1235.2	1292.5	1168.9	1156.9	1159.9
25°	1212.6	1259.3	1141.8	1132.8	1137.3
27.5°	1190.0	1191.5	1114.7	1108.7	1111.7
30°	1164.4	1126.8	1084.6	1083.1	1087.6
32.5°	1137.3	1078.6	1054.5	1057.5	1063.5
35°	1108.7	1037.9	1022.8	1028.8	1037.9
37.5°	1077.1	1000.2	991.2	1001.7	1007.8
40°	1045.4	961.1	958.0	968.6	976.1
42.5°	1013.8	923.4	924.9	935.5	944.5
45°	976.1	882.7	888.8	900.8	900.8
47.5°	933.9	839.0	851.1	825.5	305.8
50°	894.8	795.4	811.9	244.0	141.6
52.5°	848.1	748.7	769.8	134.1	138.6
55°	796.9	702.0	667.3	131.1	137.1
57.5°	750.2	653.8	198.8	129.5	134.1
60°	694.4	605.6	117.5	126.5	129.5
62.5°	637.2	554.3	111.5	120.5	120.5
65°	580.0	501.6	105.4	110.0	108.5
67.5°	518.2	447.4	99.4	96.4	94.9
70°	453.4	275.7	88.9	82.9	81.3
72.5°	388.6	94.9	76.8	69.3	67.8
75°	319.3	76.8	63.3	55.7	54.2
77.5°	251.6	63.3	49.7	43.7	42.2
80°	183.8	48.2	37.7	33.1	31.6
82.5°	119.0	34.6	28.6	22.6	21.1
85°	61.8	22.6	18.1	13.6	13.6
87.5°	24.1	13.6	9.0	6.0	4.5
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	25.34	26.85	25.70	27.16	27.48	13.97	15.49	14.34	15.80	16.12
	3H	27.26	28.61	27.64	28.94	29.30	16.11	17.46	16.48	17.79	18.15
	4H	27.74	29.01	28.14	29.36	29.74	16.79	18.06	17.19	18.41	18.79
	6H	28.18	29.35	28.59	29.71	30.10	17.25	18.42	17.67	18.79	19.18
	8H	28.32	29.43	28.74	29.82	30.22	17.39	18.50	17.81	18.89	19.29
	12H	28.39	29.46	28.82	29.84	30.27	17.48	18.54	17.91	18.92	19.35
4H	2H	25.18	26.45	25.58	26.80	27.18	14.73	15.99	15.12	16.34	16.72
	3H	27.21	28.26	27.62	28.66	29.06	17.07	18.11	17.48	18.51	18.91
	4H	27.70	28.64	28.13	29.05	29.49	17.86	18.80	18.29	19.21	19.65
	6H	28.21	29.02	28.67	29.47	29.93	18.43	19.25	18.89	19.69	20.15
	8H	28.40	29.16	28.86	29.60	30.07	18.60	19.36	19.07	19.81	20.28
	12H	28.52	29.20	29.01	29.68	30.15	18.73	19.40	19.21	19.88	20.35
8H	4H	27.62	28.38	28.09	28.83	29.29	18.45	19.21	18.91	19.65	20.12
	6H	28.13	28.76	28.63	29.25	29.73	19.10	19.73	19.60	20.22	20.70
	8H	28.33	28.90	28.85	29.41	29.90	19.33	19.89	19.84	20.40	20.89
	12H	28.49	28.99	29.00	29.49	30.05	19.50	20.00	20.01	20.49	21.06
12H	4H	27.59	28.27	28.08	28.75	29.22	18.53	19.21	19.01	19.69	20.16
	6H	28.09	28.65	28.61	29.16	29.65	19.21	19.78	19.73	20.29	20.78
	8H	28.31	28.81	28.82	29.31	29.87	19.50	20.00	20.01	20.49	21.05