

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: P895244

Luminaire Tested: 8TMB-8SL-LVRA-UNV-L950

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895244
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-26)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-8SL-LVRA-UNV-L950
Description: 8000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 90CRI, 5000K CCT
Light Source: -
Ballast/Driver: -

Summary

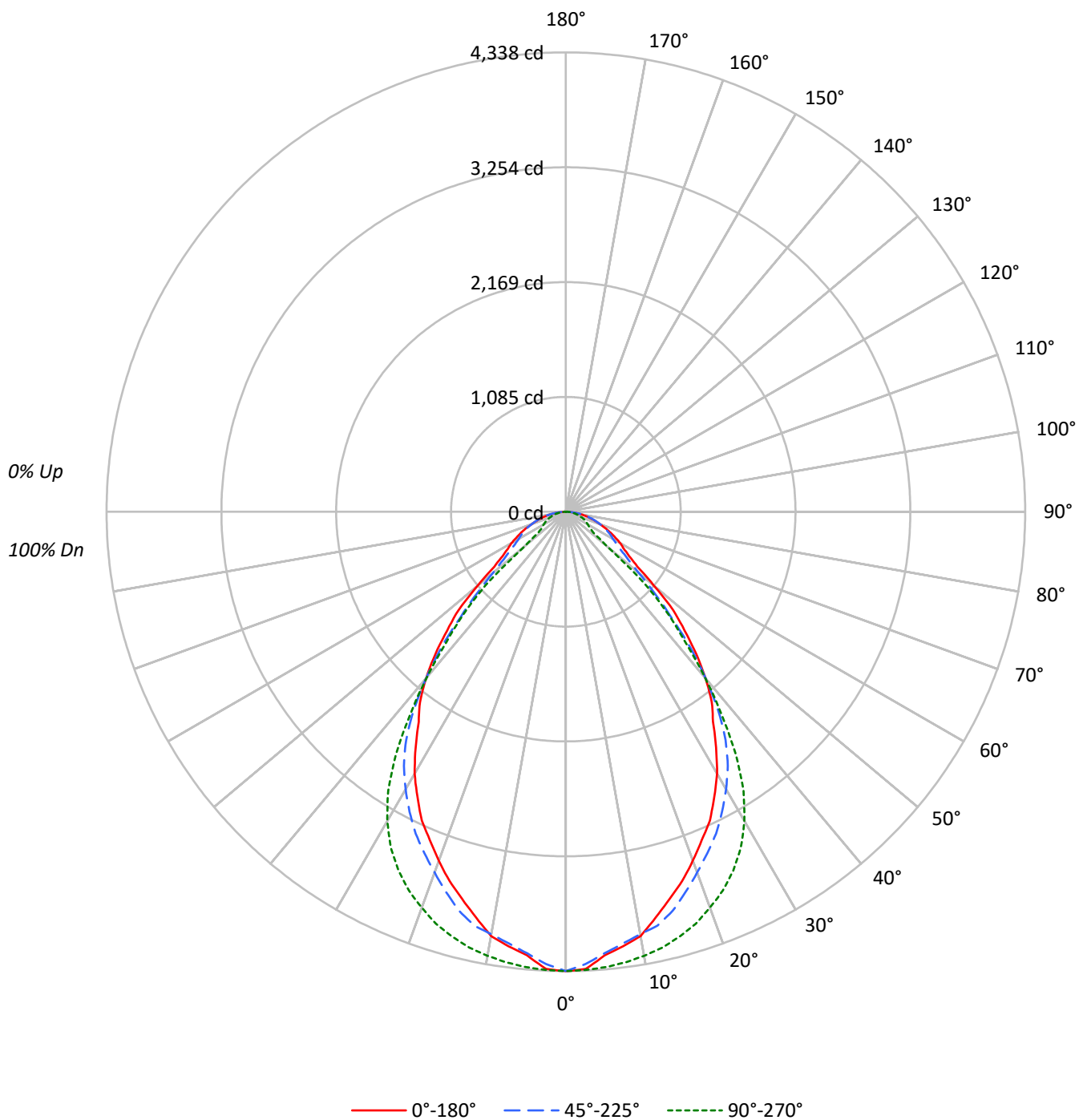
Lumens per Lamp: N/A
Luminaire Lumens: 7040.0 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.16 / 1.12
Luminous Opening: Rectangular (W 0.38' x L: 7.98' x H: 0')
CIE Type: Direct

Input Watts (W): 59.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 3.8
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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	107	104	101	108	105	102	99	101	98	96		97	95	93		93
2	103	96	91	86	101	95	90	85	91	87	83		88	85	82		85
3	96	87	80	75	94	86	80	75	83	78	73		80	76	72		78
4	89	79	72	66	87	78	71	66	76	70	65		73	68	64		71
5	83	72	65	59	81	71	64	59	69	63	58		67	62	58		66
6	78	66	59	53	76	65	58	53	64	57	53		62	57	52		61
7	73	61	54	48	71	60	53	48	59	52	48		58	52	47		56
8	68	57	49	44	67	56	49	44	55	48	44		53	48	43		52
9	64	52	45	40	63	52	45	40	51	44	40		50	44	40		49
10	61	49	42	37	60	48	42	37	47	41	37		47	41	37		46

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15391	15391	15391
5°	14976	14908	15374
10°	14658	14593	15339
15°	13901	14328	15252
20°	13242	13690	15020
25°	12596	13135	14636
30°	11703	12399	13819
35°	10494	11394	12121
40°	9507	9528	9476
45°	7949	7041	6866
50°	6005	4955	2808
55°	4516	3963	1770
60°	4197	3650	1706
65°	3905	3642	1709
70°	3572	3572	1682
75°	3387	3479	1625
80°	3130	3290	1667
85°	2732	2866	1820

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 8134 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	400.7	5.7
10°-20°	1104.1	15.7
20°-30°	1565.6	22.2
30°-40°	1612.9	22.9
40°-50°	1126.5	16.0
50°-60°	540.6	7.7
60°-70°	379.2	5.4
70°-80°	237.1	3.4
80°-90°	73.3	1.0
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°	3070.3	43.6
0°-40°	4683.2	66.5
0°-60°	6350.3	90.2
0°-90°	7040.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7040.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4338	4338	4338	4338	4338	
5°	4205	4199	4186	4295	4316	398
15°	3784	3812	3901	4012	4152	1066
25°	3218	3250	3355	3582	3738	1471
35°	2423	2489	2631	2685	2798	1527
45°	1584	1621	1403	1332	1368	1221
55°	730	694	641	410	286	684
65°	465	435	434	330	204	461
75°	247	244	254	219	118	260
85°	67	67	70	69	45	75
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4337.7	4337.7	4337.7	4337.7	4337.7
2.5°	4321.0	4307.6	4275.1	4334.4	4329.9
5°	4204.7	4199.1	4185.7	4295.3	4316.5
7.5°	4138.7	4127.6	4111.9	4232.7	4291.9
10°	4068.3	4081.7	4050.4	4161.1	4257.3
12.5°	3923.0	3958.8	4001.2	4087.3	4214.8
15°	3784.4	3812.3	3900.6	4012.4	4152.2
17.5°	3654.7	3687.1	3763.1	3930.8	4079.5
20°	3507.1	3551.8	3625.6	3840.2	3977.8
22.5°	3355.0	3396.4	3489.2	3719.5	3872.7
25°	3217.5	3250.0	3355.0	3582.0	3738.5
27.5°	3035.3	3095.7	3195.2	3414.3	3578.6
30°	2856.4	2907.9	3026.4	3210.8	3372.9
32.5°	2640.7	2715.6	2846.4	2987.2	3122.5
35°	2422.7	2488.6	2630.6	2685.4	2798.3
37.5°	2263.9	2281.8	2362.3	2355.6	2419.3
40°	2052.6	2088.4	2057.1	1973.2	2045.9
42.5°	1824.5	1867.0	1740.7	1643.4	1669.1
45°	1584.2	1621.1	1403.1	1331.5	1368.4
47.5°	1376.2	1372.9	1131.4	1083.3	1031.9
50°	1087.8	1123.6	897.7	808.3	508.7
52.5°	849.7	863.1	740.1	516.5	334.3
55°	730.0	694.3	640.6	410.3	286.2
57.5°	648.4	603.7	567.9	381.2	261.6
60°	591.4	541.1	514.3	362.2	240.4
62.5°	526.6	487.4	477.4	345.5	221.4
65°	465.1	434.9	433.8	329.8	203.5
67.5°	403.6	386.8	391.3	310.8	183.3
70°	344.3	341.0	344.3	286.2	162.1
72.5°	294.0	290.7	299.6	254.9	138.6
75°	247.1	243.7	253.8	219.1	118.5
77.5°	196.8	199.0	205.7	182.2	99.5
80°	153.2	153.2	161.0	143.1	81.6
82.5°	109.6	110.7	115.2	105.1	63.7
85°	67.1	67.1	70.4	69.3	44.7
87.5°	22.4	25.7	30.2	32.4	22.4
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	15.14	16.50	15.51	16.81	17.13	11.48	12.83	11.84	13.14	13.46
	3H	16.88	18.09	17.26	18.42	18.78	13.45	14.66	13.83	14.99	15.35
	4H	17.55	18.68	17.96	19.03	19.41	14.16	15.28	14.56	15.63	16.02
	6H	18.06	19.10	18.48	19.47	19.86	14.68	15.72	15.09	16.09	16.48
	8H	18.23	19.22	18.66	19.61	20.01	14.87	15.85	15.29	16.24	16.65
	12H	18.34	19.29	18.77	19.67	20.10	15.00	15.95	15.44	16.33	16.76
4H	2H	15.68	16.80	16.08	17.15	17.54	13.10	14.23	13.50	14.58	14.96
	3H	17.65	18.58	18.06	18.99	19.39	15.28	16.21	15.69	16.61	17.01
	4H	18.45	19.29	18.89	19.71	20.15	16.16	16.99	16.59	17.41	17.85
	6H	19.10	19.82	19.56	20.27	20.73	16.80	17.52	17.26	17.97	18.43
	8H	19.32	19.99	19.79	20.44	20.91	17.01	17.68	17.48	18.13	18.60
	12H	19.47	20.07	19.96	20.55	21.03	17.17	17.77	17.65	18.25	18.72
8H	4H	18.74	19.42	19.21	19.86	20.33	16.81	17.48	17.27	17.93	18.40
	6H	19.52	20.08	20.02	20.57	21.05	17.67	18.22	18.17	18.72	19.20
	8H	19.82	20.32	20.34	20.84	21.33	17.99	18.49	18.51	19.01	19.50
	12H	20.06	20.50	20.57	20.99	21.56	18.26	18.70	18.77	19.19	19.76
12H	4H	18.76	19.36	19.24	19.84	20.31	16.88	17.48	17.36	17.96	18.43
	6H	19.57	20.07	20.09	20.59	21.08	17.80	18.30	18.32	18.82	19.31
	8H	19.94	20.38	20.45	20.87	21.44	18.22	18.66	18.73	19.15	19.72