

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: P894513

Luminaire Tested: 8TMB-12SL-LVR-UNV-L930

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894513
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-8)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-12SL-LVR-UNV-L930
Description: 12000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER, 90CRI, 3000K CCT
Light Source: -
Ballast/Driver: -

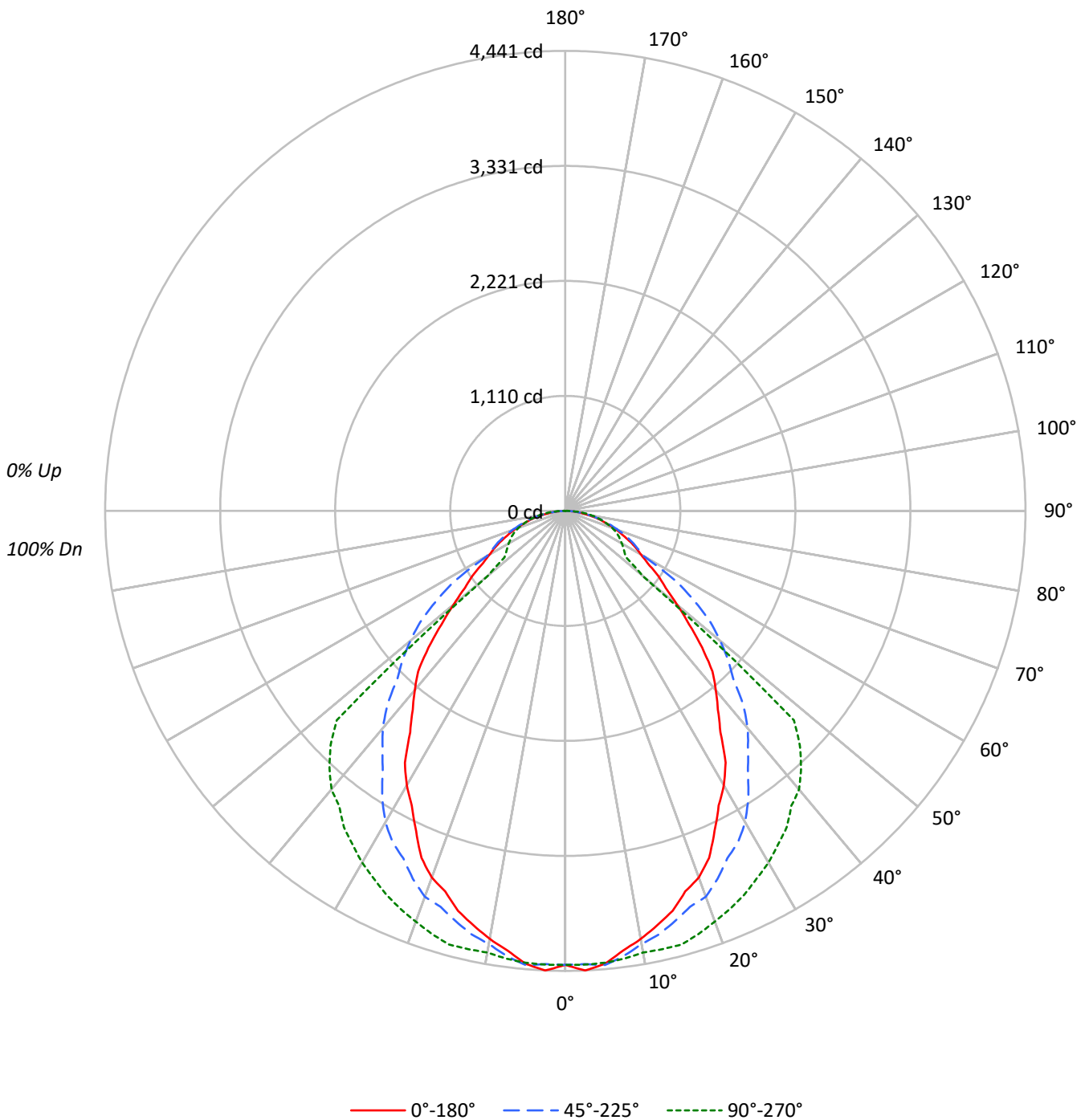
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9352.0 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.32 / 1.27
Luminous Opening: Rectangular (W 0.38' x L: 7.98' x H: 0')
CIE Type: Direct

Input Watts (W): 88.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 5.53
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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CATALOG NUMBER: 8TMB-12SL-LVR-UNV-L930

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	100	
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	89	87	
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	77	75	
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	67	65	
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	59	57	
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	57	52	52	50	
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	47	45	
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	42	40	
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	38	36	
9	61	48	40	35	59	48	40	35	47	40	35	45	39	35	44	39	35	35	33	
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	32	30	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15549	15549	15549
5°	15633	15672	15593
10°	15120	15297	15595
15°	14684	15054	15917
20°	14223	14967	15930
25°	13345	14484	16000
30°	12535	14222	16066
35°	11304	13301	16142
40°	10471	12689	16255
45°	9366	11500	16071
50°	7771	10773	5399
55°	6771	9457	4320
60°	5988	6162	4479
65°	5694	5994	4754
70°	5341	5665	5015
75°	4971	5338	5155
80°	4528	5031	5396
85°	4010	4283	5830

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 16071 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	415.7	4.4
10°-20°	1169.4	12.5
20°-30°	1720.1	18.4
30°-40°	1967.1	21.0
40°-50°	1862.7	19.9
50°-60°	1026.3	11.0
60°-70°	658.9	7.0
70°-80°	406.7	4.3
80°-90°	125.2	1.3
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°	3305.1	35.3
0°-40°	5272.3	56.4
0°-60°	8161.3	87.3
0°-90°	9352.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9352.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4382	4382	4382	4382	4382	
5°	4389	4425	4400	4400	4378	412
15°	3997	4047	4098	4313	4333	1122
25°	3409	3561	3700	3941	4087	1570
35°	2610	2834	3071	3516	3727	1650
45°	1867	2044	2292	2941	3203	1428
55°	1094	1148	1529	788	698	979
65°	678	701	714	636	566	671
75°	363	369	389	410	376	386
85°	98	98	105	121	143	110
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4382.4	4382.4	4382.4	4382.4	4382.4
2.5°	4440.6	4451.7	4380.1	4377.9	4384.6
5°	4389.1	4424.9	4400.3	4400.3	4377.9
7.5°	4279.4	4339.8	4333.1	4384.6	4360.0
10°	4196.6	4245.8	4245.8	4380.1	4328.6
12.5°	4098.1	4154.1	4185.4	4326.4	4333.1
15°	3997.4	4046.6	4098.1	4313.0	4333.1
17.5°	3851.9	3941.4	4006.3	4216.7	4281.6
20°	3766.9	3820.6	3963.8	4133.9	4219.0
22.5°	3625.9	3704.2	3843.0	4033.2	4158.5
25°	3408.8	3560.9	3699.7	3941.4	4086.9
27.5°	3207.3	3321.5	3608.0	3863.1	4001.9
30°	3059.6	3149.1	3471.4	3749.0	3921.3
32.5°	2880.5	3026.0	3287.9	3637.0	3820.6
35°	2609.7	2833.5	3070.8	3516.2	3726.6
37.5°	2419.5	2573.9	2896.2	3390.8	3585.6
40°	2260.6	2401.6	2739.5	3234.2	3509.5
42.5°	2101.7	2215.8	2542.6	3117.8	3368.5
45°	1866.6	2043.5	2291.9	2941.0	3202.8
47.5°	1620.4	1808.5	2128.5	2791.0	2992.5
50°	1407.8	1557.8	1951.7	2493.3	978.1
52.5°	1222.0	1360.8	1763.7	902.0	738.6
55°	1094.5	1148.2	1528.7	787.8	698.3
57.5°	942.3	1029.6	1282.5	749.8	662.5
60°	843.8	881.8	868.4	711.7	631.2
62.5°	765.5	792.3	787.8	673.7	595.4
65°	678.2	700.6	714.0	635.6	566.3
67.5°	590.9	611.0	631.2	588.6	526.0
70°	514.8	528.2	546.1	532.7	483.4
72.5°	436.4	452.1	463.3	474.5	427.5
75°	362.6	369.3	389.4	409.6	376.0
77.5°	295.4	302.2	315.6	338.0	320.1
80°	221.6	228.3	246.2	264.1	264.1
82.5°	156.7	161.1	172.3	197.0	208.2
85°	98.5	98.5	105.2	120.9	143.2
87.5°	38.0	38.0	44.8	53.7	71.6
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	17.48	18.97	17.85	19.28	19.59	15.29	16.77	15.65	17.08	17.40
	3H	19.01	20.34	19.39	20.66	21.03	17.62	18.94	17.99	19.27	19.63
	4H	19.60	20.85	20.00	21.19	21.57	18.57	19.81	18.97	20.16	20.54
	6H	20.06	21.21	20.47	21.57	21.97	19.35	20.50	19.76	20.87	21.26
	8H	20.20	21.30	20.63	21.69	22.09	19.66	20.75	20.09	21.14	21.55
	12H	20.30	21.35	20.73	21.73	22.16	19.91	20.96	20.34	21.34	21.77
4H	2H	18.03	19.28	18.43	19.63	20.01	16.39	17.63	16.79	17.98	18.36
	3H	19.81	20.84	20.22	21.24	21.64	18.84	19.86	19.25	20.27	20.67
	4H	20.53	21.45	20.96	21.87	22.31	19.90	20.83	20.34	21.24	21.68
	6H	21.11	21.92	21.57	22.36	22.82	20.79	21.60	21.25	22.04	22.50
	8H	21.30	22.05	21.77	22.50	22.97	21.14	21.89	21.61	22.34	22.81
	12H	21.44	22.11	21.92	22.59	23.06	21.43	22.10	21.91	22.58	23.05
8H	4H	20.83	21.59	21.30	22.03	22.50	20.29	21.04	20.75	21.49	21.95
	6H	21.54	22.17	22.04	22.66	23.14	21.32	21.95	21.82	22.44	22.92
	8H	21.81	22.37	22.32	22.88	23.37	21.77	22.33	22.28	22.84	23.33
	12H	22.02	22.51	22.53	23.01	23.57	22.15	22.65	22.66	23.15	23.71
12H	4H	20.87	21.54	21.35	22.02	22.49	20.32	21.00	20.81	21.48	21.95
	6H	21.61	22.17	22.12	22.68	23.17	21.39	21.95	21.90	22.46	22.95
	8H	21.93	22.43	22.44	22.92	23.49	21.90	22.40	22.41	22.89	23.45