

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: P894519

Luminaire Tested: 8TMB-12SL-LVRA-UNV-L840

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894519
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-12SL-LVRA-UNV-L840
Description: 12000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 80CRI, 4000K CCT
Light Source: -
Ballast/Driver: -

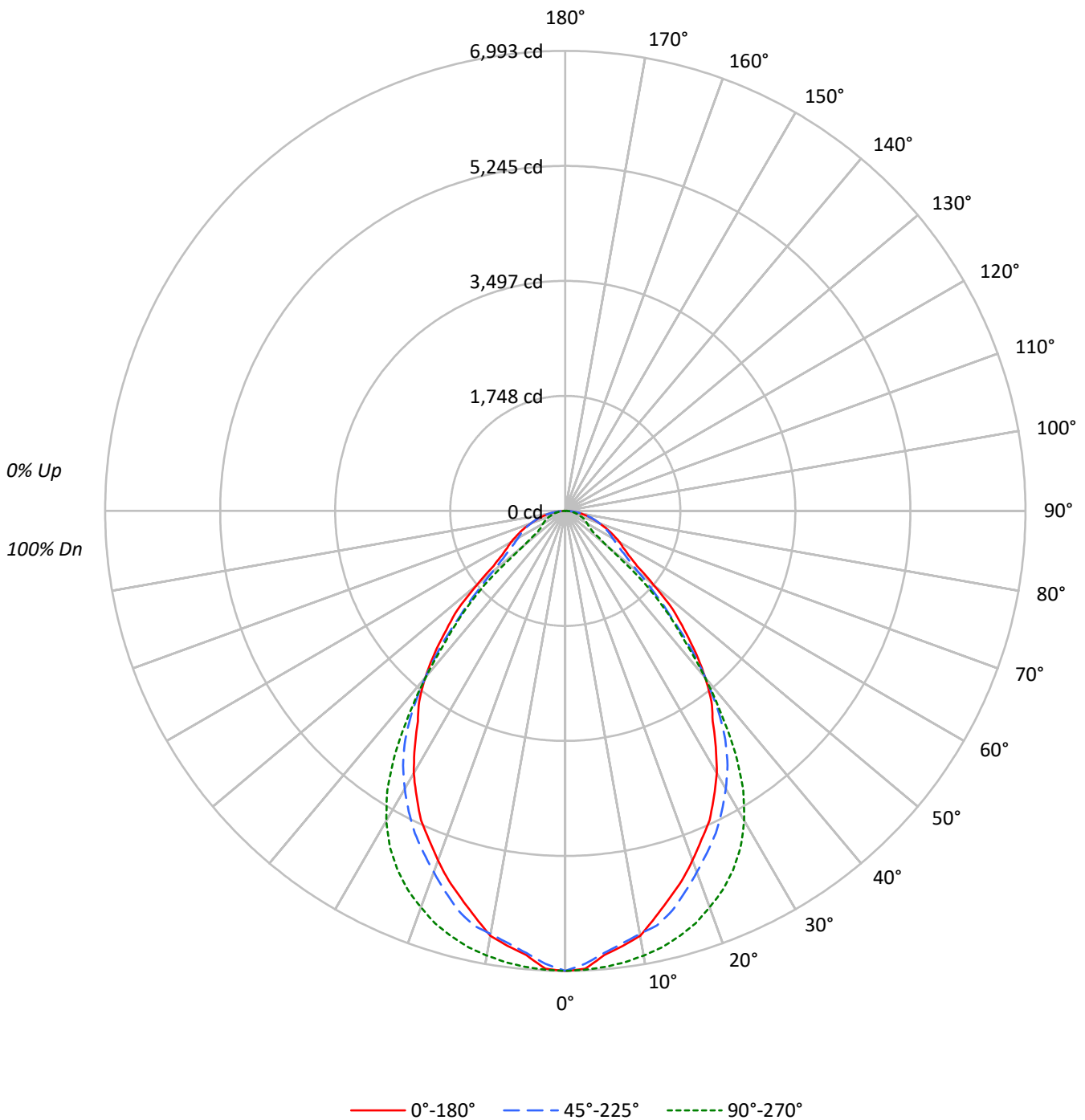
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11349.0 lumens
Efficiency: N/A
Efficacy: 127.8 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): 88.8
Input Voltage (V): 120
Input Current (Ain): 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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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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	90	88	
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	80	78	
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	71	69	
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	63	62	
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	57	55	
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	52	50	
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	47	45	
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	43	41	
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	40	38	
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	37	35	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	24811	24811	24811
5°	24142	24033	24784
10°	23629	23525	24727
15°	22410	23098	24588
20°	21348	22069	24212
25°	20306	21174	23595
30°	18866	19988	22277
35°	16917	18368	19540
40°	15326	15360	15276
45°	12815	11349	11069
50°	9680	7988	4526
55°	7280	6388	2854
60°	6766	5883	2750
65°	6294	5871	2754
70°	5759	5759	2711
75°	5460	5608	2618
80°	5045	5302	2689
85°	4401	4621	2935

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 13113 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	645.9	5.7
10°-20°	1779.8	15.7
20°-30°	2523.8	22.2
30°-40°	2600.1	22.9
40°-50°	1816.1	16.0
50°-60°	871.4	7.7
60°-70°	611.4	5.4
70°-80°	382.2	3.4
80°-90°	118.2	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°	4949.6	43.6
0°-40°	7549.7	66.5
0°-60°	10237.2	90.2
0°-90°	11349.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11349.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6993	6993	6993	6993	6993	
5°	6778	6769	6748	6924	6958	642
15°	6101	6146	6288	6468	6694	1718
25°	5187	5239	5409	5774	6027	2372
35°	3906	4012	4241	4329	4511	2461
45°	2554	2613	2262	2146	2206	1968
55°	1177	1119	1033	661	461	1103
65°	750	701	699	532	328	743
75°	398	393	409	353	191	419
85°	108	108	114	112	72	121
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6992.8	6992.8	6992.8	6992.8	6992.8
2.5°	6965.7	6944.1	6891.8	6987.4	6980.2
5°	6778.3	6769.3	6747.7	6924.3	6958.5
7.5°	6672.0	6653.9	6628.7	6823.4	6918.9
10°	6558.4	6580.1	6529.6	6708.0	6863.0
12.5°	6324.1	6381.8	6450.3	6589.1	6794.5
15°	6100.7	6145.7	6288.1	6468.3	6693.6
17.5°	5891.6	5943.9	6066.4	6336.7	6576.4
20°	5653.7	5725.8	5844.7	6190.8	6412.4
22.5°	5408.6	5475.3	5624.9	5996.1	6243.0
25°	5186.9	5239.2	5408.6	5774.4	6026.8
27.5°	4893.1	4990.5	5150.9	5504.1	5769.0
30°	4604.8	4687.7	4878.7	5176.1	5437.4
32.5°	4256.9	4377.7	4588.6	4815.6	5033.7
35°	3905.5	4011.8	4240.7	4329.0	4511.1
37.5°	3649.6	3678.4	3808.2	3797.4	3900.1
40°	3309.0	3366.6	3316.2	3181.0	3298.1
42.5°	2941.3	3009.8	2806.1	2649.3	2690.8
45°	2553.8	2613.3	2261.8	2146.5	2206.0
47.5°	2218.6	2213.2	1823.9	1746.4	1663.5
50°	1753.6	1811.3	1447.2	1303.0	820.0
52.5°	1369.7	1391.3	1193.1	832.6	538.9
55°	1176.9	1119.2	1032.7	661.4	461.4
57.5°	1045.3	973.2	915.5	614.6	421.7
60°	953.4	872.3	829.0	583.9	387.5
62.5°	848.9	785.8	769.6	556.9	356.8
65°	749.7	701.1	699.3	531.7	328.0
67.5°	650.6	623.6	630.8	501.0	295.6
70°	555.1	549.7	555.1	461.4	261.3
72.5°	474.0	468.6	483.0	410.9	223.5
75°	398.3	392.9	409.1	353.2	191.0
77.5°	317.2	320.8	331.6	293.8	160.4
80°	246.9	246.9	259.5	230.7	131.6
82.5°	176.6	178.4	185.6	169.4	102.7
85°	108.1	108.1	113.5	111.7	72.1
87.5°	36.0	41.5	48.7	52.3	36.0
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	16.80	18.16	17.17	18.47	18.79	13.14	14.49	13.50	14.80	15.12
	3H	18.54	19.75	18.92	20.08	20.44	15.11	16.32	15.49	16.65	17.01
	4H	19.21	20.34	19.62	20.69	21.07	15.82	16.94	16.22	17.29	17.68
	6H	19.72	20.76	20.13	21.13	21.52	16.34	17.38	16.75	17.75	18.14
	8H	19.89	20.88	20.32	21.27	21.67	16.52	17.51	16.95	17.90	18.31
	12H	20.00	20.94	20.43	21.33	21.76	16.66	17.61	17.10	17.99	18.42
4H	2H	17.33	18.46	17.74	18.81	19.19	14.76	15.89	15.16	16.24	16.62
	3H	19.31	20.24	19.72	20.64	21.05	16.94	17.87	17.35	18.27	18.67
	4H	20.11	20.95	20.55	21.37	21.81	17.82	18.65	18.25	19.07	19.51
	6H	20.76	21.48	21.22	21.93	22.39	18.46	19.18	18.92	19.63	20.09
	8H	20.98	21.65	21.44	22.10	22.57	18.67	19.34	19.14	19.79	20.26
	12H	21.13	21.73	21.62	22.21	22.69	18.83	19.43	19.31	19.91	20.38
8H	4H	20.40	21.07	20.87	21.52	21.99	18.46	19.14	18.93	19.59	20.06
	6H	21.18	21.74	21.68	22.23	22.71	19.33	19.88	19.83	20.38	20.86
	8H	21.48	21.98	22.00	22.50	22.99	19.65	20.15	20.17	20.67	21.16
	12H	21.72	22.16	22.23	22.65	23.22	19.92	20.36	20.43	20.85	21.42
12H	4H	20.41	21.01	20.90	21.50	21.97	18.54	19.14	19.02	19.62	20.09
	6H	21.23	21.73	21.75	22.25	22.74	19.46	19.96	19.98	20.48	20.97
	8H	21.60	22.04	22.11	22.53	23.10	19.88	20.32	20.39	20.81	21.38