

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: P894517

Luminaire Tested: 8TMB-12SL-LVRA-UNV-L830

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894517
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-L830
Description: 12000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 80CRI, 3000K CCT
Light Source: -
Ballast/Driver: -

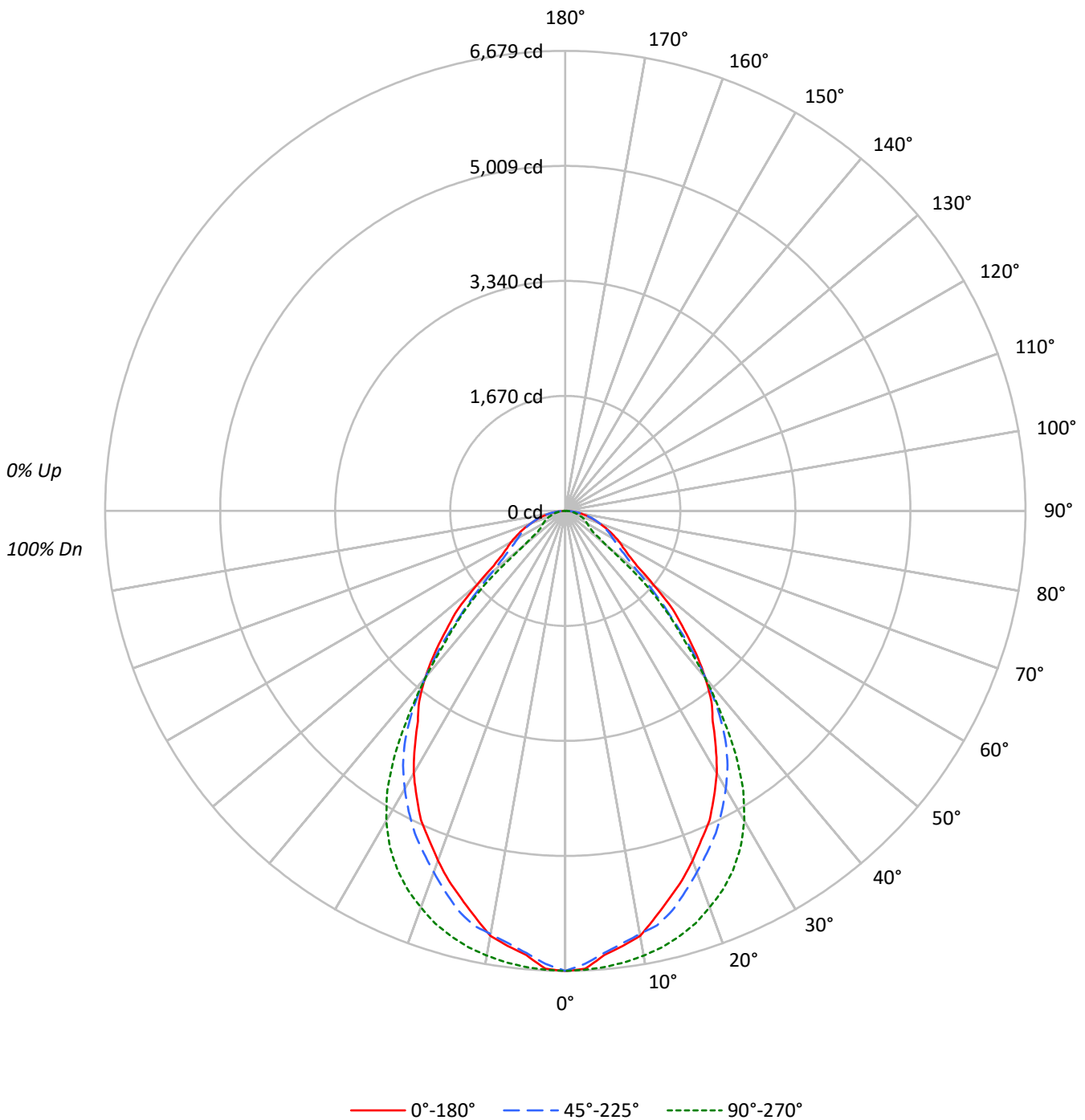
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10840.0 lumens
Efficiency: N/A
Efficacy: 122.1 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): 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

TEST NUMBER: P894517
CATALOG NUMBER: 8TMB-12SL-LVRA-UNV-L830

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	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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	90	90	90	88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	80	80	80	78
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	71	71	71	69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	63	63	63	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	57	57	57	55
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	52	52	52	50
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	47	47	47	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	43	43	43	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	40	40	40	38
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	37	37	37	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23698	23698	23698
5°	23059	22955	23672
10°	22569	22470	23618
15°	21404	22062	23485
20°	20390	21079	23126
25°	19396	20225	22536
30°	18020	19092	21278
35°	16158	17545	18663
40°	14639	14671	14591
45°	12240	10841	10573
50°	9246	7630	4324
55°	6954	6102	2726
60°	6462	5620	2626
65°	6012	5607	2630
70°	5500	5500	2589
75°	5215	5357	2502
80°	4818	5065	2568
85°	4205	4417	2805

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 12525 cd/sqm



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 CATALOG NUMBER: 8TMB-12SL-LVRA-UNV-L830

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	617.0	5.7
10°-20°	1700.0	15.7
20°-30°	2410.6	22.2
30°-40°	2483.5	22.9
40°-50°	1734.6	16.0
50°-60°	832.3	7.7
60°-70°	583.9	5.4
70°-80°	365.1	3.4
80°-90°	112.9	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°	4727.6	43.6
0°-40°	7211.1	66.5
0°-60°	9778.0	90.2
0°-90°	10840.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10840.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6679	6679	6679	6679	6679	
5°	6474	6466	6445	6614	6646	613
15°	5827	5870	6006	6178	6393	1641
25°	4954	5004	5166	5516	5756	2265
35°	3730	3832	4050	4135	4309	2351
45°	2439	2496	2160	2050	2107	1879
55°	1124	1069	986	632	441	1053
65°	716	670	668	508	313	709
75°	380	375	391	337	182	401
85°	103	103	108	107	69	115
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6679.1	6679.1	6679.1	6679.1	6679.1
2.5°	6653.3	6632.7	6582.7	6674.0	6667.1
5°	6474.3	6465.7	6445.0	6613.7	6646.4
7.5°	6372.7	6355.5	6331.4	6517.3	6608.6
10°	6264.3	6284.9	6236.7	6407.2	6555.2
12.5°	6040.5	6095.6	6161.0	6293.5	6489.8
15°	5827.0	5870.1	6006.1	6178.2	6393.4
17.5°	5627.4	5677.3	5794.3	6052.5	6281.5
20°	5400.1	5469.0	5582.6	5913.1	6124.8
22.5°	5166.0	5229.7	5372.6	5727.2	5963.0
25°	4954.3	5004.2	5166.0	5515.5	5756.5
27.5°	4673.7	4766.6	4919.8	5257.2	5510.3
30°	4398.3	4477.4	4659.9	4943.9	5193.6
32.5°	4066.0	4181.4	4382.8	4599.7	4808.0
35°	3730.3	3831.9	4050.5	4134.9	4308.7
37.5°	3485.9	3513.4	3637.4	3627.1	3725.2
40°	3160.5	3215.6	3167.4	3038.3	3150.2
42.5°	2809.4	2874.8	2680.3	2530.5	2570.1
45°	2439.3	2496.1	2160.4	2050.2	2107.0
47.5°	2119.1	2113.9	1742.1	1668.1	1588.9
50°	1675.0	1730.0	1382.3	1244.6	783.3
52.5°	1308.3	1328.9	1139.6	795.3	514.7
55°	1124.1	1069.0	986.4	631.8	440.7
57.5°	998.4	929.6	874.5	587.0	402.8
60°	910.6	833.2	791.9	557.7	370.1
62.5°	810.8	750.5	735.1	531.9	340.8
65°	716.1	669.6	667.9	507.8	313.3
67.5°	621.4	595.6	602.5	478.6	282.3
70°	530.2	525.0	530.2	440.7	249.6
72.5°	452.7	447.6	461.3	392.5	213.5
75°	380.4	375.3	390.8	337.4	182.5
77.5°	303.0	306.4	316.7	280.6	153.2
80°	235.8	235.8	247.9	220.3	125.7
82.5°	168.7	170.4	177.3	161.8	98.1
85°	103.3	103.3	108.5	106.7	68.9
87.5°	34.4	39.6	46.5	49.9	34.4
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	16.64	18.00	17.01	18.31	18.63	12.98	14.33	13.34	14.64	14.96
	3H	18.38	19.59	18.76	19.92	20.28	14.95	16.16	15.33	16.49	16.85
	4H	19.05	20.18	19.46	20.53	20.91	15.66	16.78	16.06	17.14	17.52
	6H	19.56	20.60	19.98	20.97	21.36	16.18	17.22	16.59	17.59	17.98
	8H	19.73	20.72	20.16	21.11	21.51	16.37	17.35	16.79	17.74	18.15
	12H	19.84	20.78	20.27	21.17	21.60	16.50	17.45	16.94	17.83	18.26
4H	2H	17.17	18.30	17.58	18.65	19.04	14.60	15.73	15.00	16.08	16.46
	3H	19.15	20.08	19.56	20.49	20.89	16.78	17.71	17.19	18.11	18.51
	4H	19.95	20.79	20.39	21.21	21.65	17.66	18.49	18.09	18.91	19.35
	6H	20.60	21.32	21.06	21.77	22.23	18.30	19.02	18.76	19.47	19.93
	8H	20.82	21.49	21.28	21.94	22.41	18.51	19.19	18.98	19.63	20.10
	12H	20.97	21.57	21.46	22.05	22.53	18.67	19.27	19.15	19.75	20.22
8H	4H	20.24	20.91	20.71	21.36	21.83	18.31	18.98	18.77	19.43	19.90
	6H	21.02	21.58	21.52	22.07	22.55	19.17	19.72	19.67	20.22	20.70
	8H	21.32	21.82	21.84	22.34	22.83	19.49	19.99	20.01	20.51	21.00
	12H	21.56	22.00	22.07	22.49	23.06	19.76	20.20	20.27	20.69	21.26
12H	4H	20.26	20.86	20.74	21.34	21.81	18.38	18.98	18.86	19.46	19.93
	6H	21.07	21.57	21.59	22.09	22.58	19.30	19.80	19.82	20.32	20.81
	8H	21.44	21.88	21.95	22.37	22.94	19.72	20.16	20.23	20.65	21.22