

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: P894520

Luminaire Tested: 8TMB-12SL-LVRA-UNV-L850

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894520
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-L850
Description: 12000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 80CRI, 5000K CCT
Light Source: -
Ballast/Driver: -

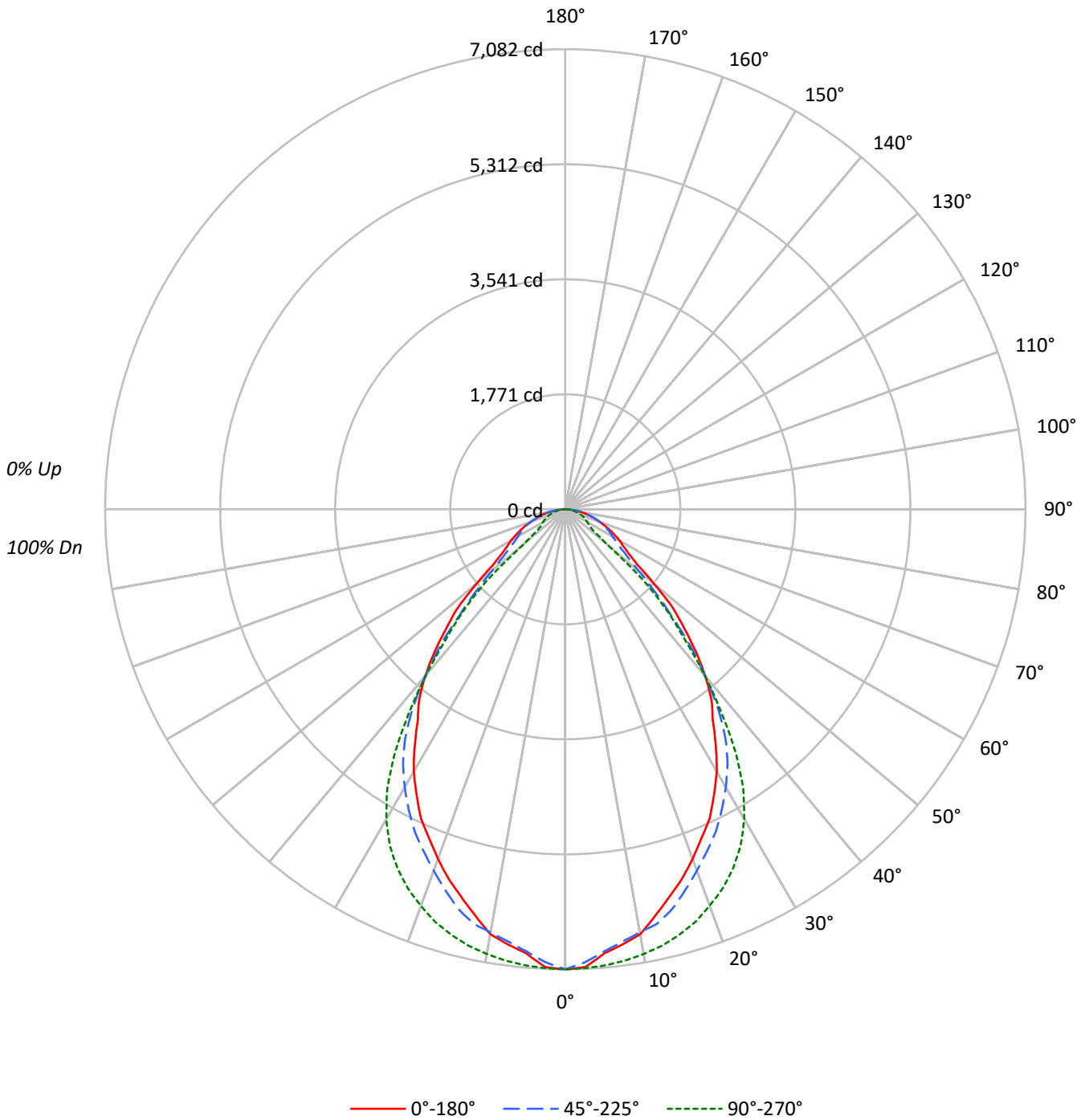
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11494.0 lumens
Efficiency: N/A
Efficacy: 129.4 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	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°	25128	25128	25128
5°	24451	24340	25101
10°	23931	23826	25042
15°	22696	23393	24902
20°	21620	22351	24522
25°	20566	21445	23896
30°	19107	20244	22562
35°	17133	18603	19789
40°	15522	15556	15471
45°	12978	11494	11211
50°	9803	8091	4584
55°	7373	6470	2891
60°	6852	5958	2785
65°	6375	5946	2789
70°	5832	5832	2746
75°	5530	5680	2653
80°	5110	5370	2722
85°	4458	4682	2972

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 13281 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	654.2	5.7
10°-20°	1802.6	15.7
20°-30°	2556.1	22.2
30°-40°	2633.3	22.9
40°-50°	1839.3	16.0
50°-60°	882.6	7.7
60°-70°	619.2	5.4
70°-80°	387.1	3.4
80°-90°	119.7	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°	5012.8	43.6
0°-40°	7646.1	66.5
0°-60°	10367.9	90.2
0°-90°	11494.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11494.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7082	7082	7082	7082	7082	
5°	6865	6856	6834	7013	7047	650
15°	6179	6224	6368	6551	6779	1740
25°	5253	5306	5478	5848	6104	2402
35°	3955	4063	4295	4384	4569	2492
45°	2586	2647	2291	2174	2234	1993
55°	1192	1134	1046	670	467	1117
65°	759	710	708	538	332	752
75°	403	398	414	358	194	425
85°	110	110	115	113	73	122
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7082.1	7082.1	7082.1	7082.1	7082.1
2.5°	7054.7	7032.8	6979.9	7076.6	7069.3
5°	6864.9	6855.8	6833.9	7012.8	7047.4
7.5°	6757.2	6739.0	6713.4	6910.5	7007.3
10°	6642.2	6664.1	6613.0	6793.7	6950.7
12.5°	6404.9	6463.3	6532.7	6673.2	6881.3
15°	6178.6	6224.2	6368.4	6551.0	6779.1
17.5°	5966.9	6019.8	6143.9	6417.7	6660.5
20°	5725.9	5798.9	5919.4	6269.9	6494.4
22.5°	5477.7	5545.2	5696.7	6072.7	6322.8
25°	5253.2	5306.1	5477.7	5848.2	6103.8
27.5°	4955.7	5054.2	5216.7	5574.4	5842.7
30°	4663.6	4747.6	4941.1	5242.2	5506.9
32.5°	4311.3	4433.6	4647.2	4877.2	5098.0
35°	3955.4	4063.1	4294.9	4384.3	4568.7
37.5°	3696.2	3725.4	3856.8	3845.9	3949.9
40°	3351.2	3409.6	3358.5	3221.6	3340.3
42.5°	2978.9	3048.2	2842.0	2683.2	2725.2
45°	2586.4	2646.7	2290.7	2173.9	2234.2
47.5°	2246.9	2241.5	1847.2	1768.7	1684.7
50°	1776.0	1834.4	1465.7	1319.7	830.5
52.5°	1387.2	1409.1	1208.3	843.3	545.8
55°	1191.9	1133.5	1045.9	669.9	467.3
57.5°	1058.7	985.7	927.2	622.4	427.1
60°	965.6	883.4	839.6	591.4	392.4
62.5°	859.7	795.8	779.4	564.0	361.4
65°	759.3	710.0	708.2	538.5	332.2
67.5°	658.9	631.5	638.9	507.4	299.3
70°	562.2	556.7	562.2	467.3	264.7
72.5°	480.1	474.6	489.2	416.2	226.3
75°	403.4	397.9	414.3	357.8	193.5
77.5°	321.3	324.9	335.9	297.5	162.5
80°	250.1	250.1	262.8	233.6	133.2
82.5°	178.9	180.7	188.0	171.6	104.0
85°	109.5	109.5	115.0	113.2	73.0
87.5°	36.5	42.0	49.3	52.9	36.5
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	16.85	18.20	17.21	18.51	18.83	13.18	14.53	13.55	14.85	15.16
	3H	18.59	19.79	18.97	20.12	20.49	15.16	16.36	15.54	16.69	17.06
	4H	19.26	20.39	19.66	20.74	21.12	15.86	16.99	16.26	17.34	17.72
	6H	19.76	20.80	20.18	21.17	21.57	16.38	17.42	16.80	17.79	18.19
	8H	19.94	20.92	20.37	21.31	21.72	16.57	17.55	17.00	17.94	18.35
	12H	20.05	20.99	20.48	21.37	21.80	16.71	17.65	17.14	18.03	18.46
4H	2H	17.38	18.51	17.78	18.86	19.24	14.80	15.93	15.20	16.28	16.66
	3H	19.36	20.29	19.77	20.69	21.09	16.98	17.91	17.39	18.31	18.72
	4H	20.16	20.99	20.59	21.41	21.85	17.86	18.70	18.29	19.11	19.56
	6H	20.80	21.53	21.26	21.97	22.44	18.50	19.23	18.96	19.67	20.14
	8H	21.02	21.70	21.49	22.14	22.61	18.71	19.39	19.18	19.83	20.30
	12H	21.18	21.78	21.66	22.26	22.73	18.87	19.47	19.35	19.95	20.43
8H	4H	20.44	21.12	20.91	21.56	22.03	18.51	19.19	18.98	19.63	20.10
	6H	21.23	21.78	21.73	22.28	22.76	19.37	19.93	19.87	20.42	20.90
	8H	21.53	22.03	22.05	22.54	23.03	19.70	20.20	20.22	20.71	21.20
	12H	21.76	22.20	22.28	22.70	23.27	19.96	20.40	20.48	20.90	21.47
12H	4H	20.46	21.06	20.94	21.54	22.01	18.58	19.18	19.07	19.66	20.14
	6H	21.28	21.78	21.80	22.29	22.78	19.51	20.01	20.03	20.52	21.01
	8H	21.64	22.08	22.16	22.58	23.15	19.92	20.36	20.43	20.86	21.43