

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: P894521

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894521
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-L930
Description: 12000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 90CRI, 3000K CCT
Light Source: -
Ballast/Driver: -

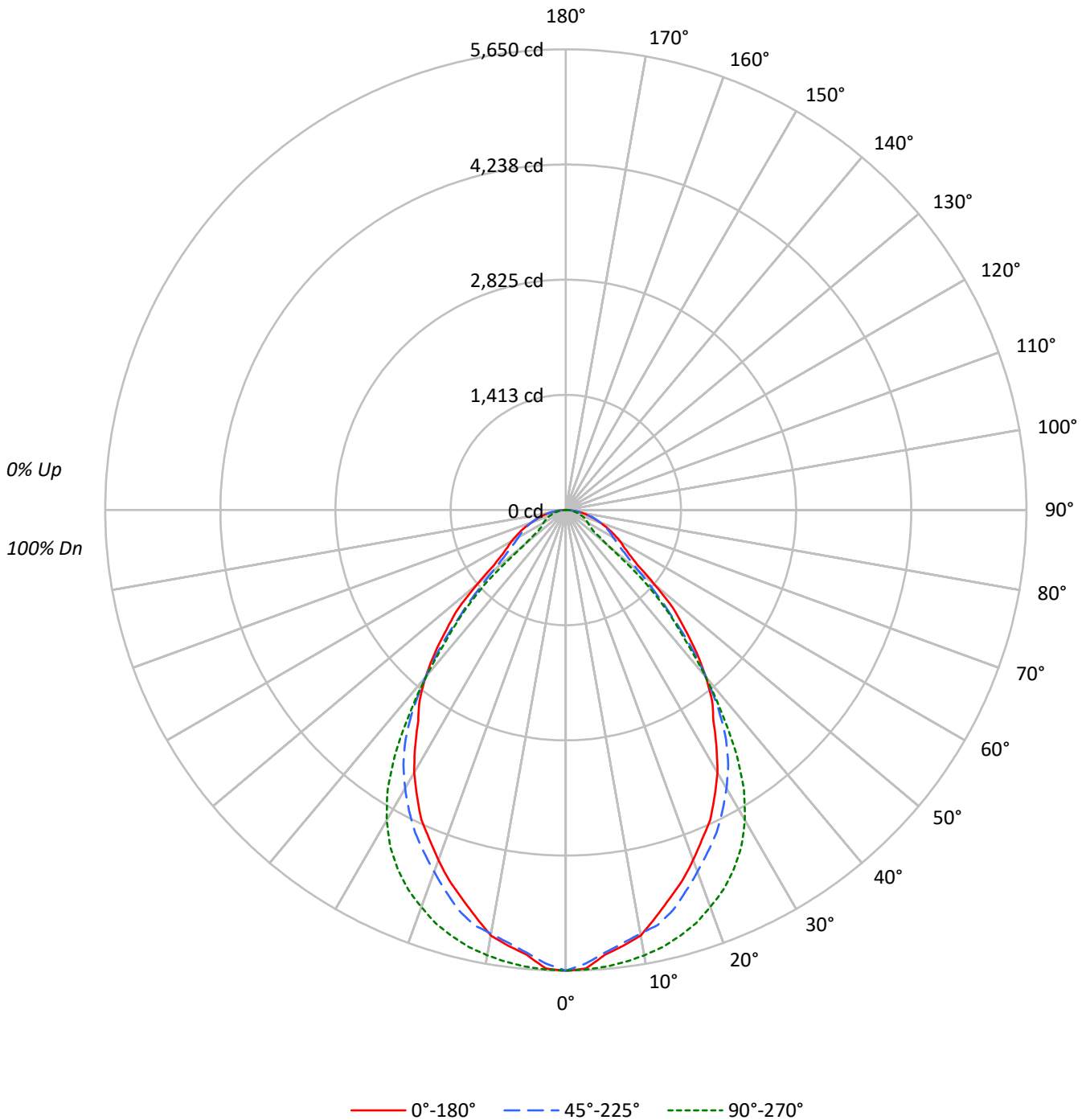
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9169.0 lumens
Efficiency: N/A
Efficacy: 103.3 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°	20045	20045	20045
5°	19505	19417	20023
10°	19090	19006	19977
15°	18105	18661	19864
20°	17247	17830	19562
25°	16406	17107	19062
30°	15242	16149	17998
35°	13667	14840	15786
40°	12382	12409	12342
45°	10353	9170	8943
50°	7821	6454	3657
55°	5882	5161	2306
60°	5466	4753	2222
65°	5085	4744	2225
70°	4653	4653	2190
75°	4412	4531	2115
80°	4076	4285	2172
85°	3558	3733	2369

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 10594 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	521.9	5.7
10°-20°	1437.9	15.7
20°-30°	2039.0	22.2
30°-40°	2100.6	22.9
40°-50°	1467.2	16.0
50°-60°	704.0	7.7
60°-70°	493.9	5.4
70°-80°	308.8	3.4
80°-90°	95.5	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°	3998.8	43.6
0°-40°	6099.5	66.5
0°-60°	8270.7	90.2
0°-90°	9169.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9169.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5650	5650	5650	5650	5650	
5°	5476	5469	5452	5594	5622	518
15°	4929	4965	5080	5226	5408	1388
25°	4191	4233	4370	4665	4869	1916
35°	3155	3241	3426	3498	3644	1988
45°	2063	2111	1827	1734	1782	1590
55°	951	904	834	534	373	891
65°	606	566	565	430	265	600
75°	322	317	330	285	154	339
85°	87	87	92	90	58	98
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5649.5	5649.5	5649.5	5649.5	5649.5
2.5°	5627.7	5610.2	5568.0	5645.2	5639.4
5°	5476.3	5469.0	5451.5	5594.2	5621.9
7.5°	5390.4	5375.8	5355.4	5512.7	5589.8
10°	5298.6	5316.1	5275.3	5419.5	5544.7
12.5°	5109.3	5155.9	5211.3	5323.4	5489.4
15°	4928.8	4965.2	5080.2	5225.8	5407.8
17.5°	4759.9	4802.1	4901.1	5119.5	5313.2
20°	4567.7	4625.9	4722.0	5001.6	5180.7
22.5°	4369.7	4423.5	4544.4	4844.3	5043.8
25°	4190.6	4232.8	4369.7	4665.2	4869.1
27.5°	3953.2	4031.9	4161.4	4446.8	4660.9
30°	3720.3	3787.2	3941.6	4181.8	4393.0
32.5°	3439.2	3536.8	3707.2	3890.6	4066.8
35°	3155.3	3241.2	3426.1	3497.5	3644.5
37.5°	2948.5	2971.8	3076.7	3067.9	3150.9
40°	2673.3	2719.9	2679.2	2570.0	2664.6
42.5°	2376.3	2431.6	2267.1	2140.4	2173.9
45°	2063.2	2111.3	1827.4	1734.2	1782.2
47.5°	1792.4	1788.1	1473.5	1410.9	1344.0
50°	1416.8	1463.3	1169.2	1052.7	662.5
52.5°	1106.6	1124.1	963.9	672.7	435.4
55°	950.8	904.2	834.3	534.4	372.8
57.5°	844.5	786.3	739.7	496.5	340.7
60°	770.3	704.7	669.8	471.8	313.1
62.5°	685.8	634.8	621.7	449.9	288.3
65°	605.7	566.4	565.0	429.5	265.0
67.5°	525.6	503.8	509.6	404.8	238.8
70°	448.5	444.1	448.5	372.8	211.1
72.5°	382.9	378.6	390.2	332.0	180.6
75°	321.8	317.4	330.5	285.4	154.3
77.5°	256.3	259.2	267.9	237.3	129.6
80°	199.5	199.5	209.7	186.4	106.3
82.5°	142.7	144.2	150.0	136.9	83.0
85°	87.4	87.4	91.7	90.3	58.2
87.5°	29.1	33.5	39.3	42.2	29.1
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	16.06	17.42	16.43	17.73	18.04	12.39	13.75	12.76	14.06	14.38
	3H	17.80	19.01	18.18	19.34	19.70	14.37	15.58	14.75	15.91	16.27
	4H	18.47	19.60	18.87	19.95	20.33	15.08	16.20	15.48	16.55	16.94
	6H	18.98	20.02	19.39	20.39	20.78	15.60	16.64	16.01	17.01	17.40
	8H	19.15	20.14	19.58	20.53	20.93	15.78	16.77	16.21	17.16	17.56
	12H	19.26	20.20	19.69	20.59	21.02	15.92	16.87	16.36	17.25	17.68
4H	2H	16.59	17.72	17.00	18.07	18.45	14.02	15.14	14.42	15.50	15.88
	3H	18.57	19.50	18.98	19.90	20.31	16.20	17.13	16.61	17.53	17.93
	4H	19.37	20.21	19.81	20.63	21.07	17.08	17.91	17.51	18.33	18.77
	6H	20.02	20.74	20.48	21.19	21.65	17.72	18.44	18.18	18.89	19.35
	8H	20.24	20.91	20.70	21.36	21.83	17.93	18.60	18.39	19.05	19.52
	12H	20.39	20.99	20.88	21.47	21.95	18.08	18.68	18.57	19.17	19.64
8H	4H	19.66	20.33	20.12	20.78	21.25	17.72	18.40	18.19	18.85	19.32
	6H	20.44	21.00	20.94	21.49	21.97	18.59	19.14	19.09	19.64	20.12
	8H	20.74	21.24	21.26	21.76	22.25	18.91	19.41	19.43	19.93	20.42
	12H	20.98	21.42	21.49	21.91	22.48	19.18	19.62	19.69	20.11	20.68
12H	4H	19.67	20.27	20.16	20.76	21.23	17.80	18.40	18.28	18.88	19.35
	6H	20.49	20.99	21.01	21.51	22.00	18.72	19.22	19.24	19.74	20.23
	8H	20.86	21.30	21.37	21.79	22.36	19.14	19.58	19.65	20.07	20.64