

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: P894523

Luminaire Tested: 8TMB-12SL-LVRA-UNV-L940

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894523
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-L940
Description: 12000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 90CRI, 4000K CCT
Light Source: -
Ballast/Driver: -

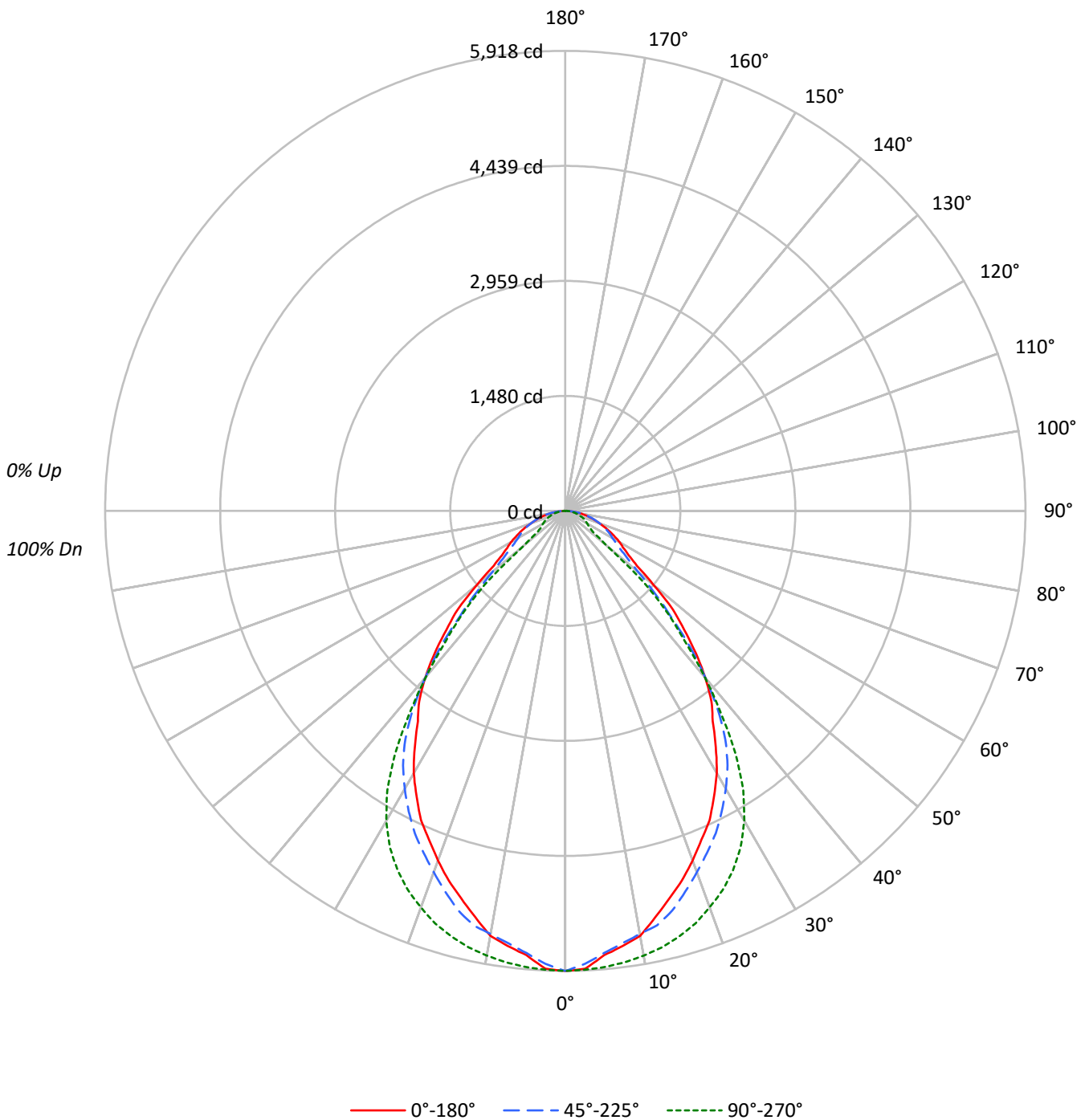
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9605.0 lumens
Efficiency: N/A
Efficacy: 108.2 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 (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-LVRA-UNV-L940

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20999	20999	20999
5°	20432	20340	20975
10°	19998	19910	20927
15°	18966	19549	20809
20°	18067	18678	20492
25°	17186	17920	19969
30°	15967	16917	18854
35°	14317	15546	16537
40°	12971	13000	12929
45°	10846	9606	9368
50°	8192	6761	3831
55°	6161	5407	2416
60°	5726	4979	2327
65°	5327	4969	2331
70°	4874	4874	2295
75°	4621	4746	2217
80°	4270	4487	2274
85°	3725	3912	2483

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 11098 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	546.7	5.7
10°-20°	1506.3	15.7
20°-30°	2136.0	22.2
30°-40°	2200.5	22.9
40°-50°	1537.0	16.0
50°-60°	737.5	7.7
60°-70°	517.4	5.4
70°-80°	323.5	3.4
80°-90°	100.1	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°	4189.0	43.6
0°-40°	6389.5	66.5
0°-60°	8664.0	90.2
0°-90°	9605.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9605.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5918	5918	5918	5918	5918	
5°	5737	5729	5711	5860	5889	543
15°	5163	5201	5322	5474	5665	1454
25°	4390	4434	4577	4887	5101	2007
35°	3305	3395	3589	3664	3818	2083
45°	2161	2212	1914	1817	1867	1665
55°	996	947	874	560	390	933
65°	634	593	592	450	278	629
75°	337	332	346	299	162	355
85°	92	92	96	95	61	102
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5918.2	5918.2	5918.2	5918.2	5918.2
2.5°	5895.3	5877.0	5832.8	5913.6	5907.5
5°	5736.7	5729.1	5710.8	5860.2	5889.2
7.5°	5646.7	5631.4	5610.1	5774.8	5855.7
10°	5550.6	5568.9	5526.2	5677.2	5808.4
12.5°	5352.3	5401.1	5459.1	5576.5	5750.4
15°	5163.2	5201.3	5321.8	5474.3	5665.0
17.5°	4986.2	5030.5	5134.2	5363.0	5565.8
20°	4784.9	4845.9	4946.6	5239.4	5427.0
22.5°	4577.4	4633.9	4760.5	5074.7	5283.7
25°	4389.8	4434.1	4577.4	4887.1	5100.6
27.5°	4141.2	4223.6	4359.3	4658.3	4882.5
30°	3897.2	3967.3	4129.0	4380.7	4601.9
32.5°	3602.8	3705.0	3883.4	4075.6	4260.2
35°	3305.3	3395.3	3589.0	3663.8	3817.8
37.5°	3088.7	3113.2	3223.0	3213.8	3300.8
40°	2800.5	2849.3	2806.6	2692.2	2791.3
42.5°	2489.3	2547.3	2374.9	2242.2	2277.3
45°	2161.4	2211.7	1914.3	1816.6	1867.0
47.5°	1877.7	1873.1	1543.6	1478.0	1407.9
50°	1484.1	1532.9	1224.8	1102.8	694.0
52.5°	1159.2	1177.5	1009.8	704.7	456.1
55°	996.0	947.2	874.0	559.8	390.5
57.5°	884.7	823.7	774.9	520.1	356.9
60°	806.9	738.2	701.6	494.2	327.9
62.5°	718.4	665.0	651.3	471.3	302.0
65°	634.5	593.3	591.8	450.0	277.6
67.5°	550.6	527.8	533.9	424.0	250.2
70°	469.8	465.2	469.8	390.5	221.2
72.5°	401.2	396.6	408.8	347.8	189.1
75°	337.1	332.5	346.2	299.0	161.7
77.5°	268.5	271.5	280.7	248.6	135.8
80°	209.0	209.0	219.6	195.2	111.3
82.5°	149.5	151.0	157.1	143.4	86.9
85°	91.5	91.5	96.1	94.6	61.0
87.5°	30.5	35.1	41.2	44.2	30.5
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	16.22	17.58	16.59	17.89	18.21	12.56	13.91	12.92	14.22	14.54
	3H	17.96	19.17	18.34	19.50	19.86	14.53	15.74	14.91	16.07	16.43
	4H	18.63	19.76	19.04	20.11	20.49	15.24	16.36	15.64	16.71	17.10
	6H	19.14	20.18	19.56	20.55	20.94	15.76	16.80	16.17	17.17	17.56
	8H	19.31	20.30	19.74	20.69	21.09	15.95	16.93	16.37	17.32	17.73
	12H	19.42	20.36	19.85	20.75	21.18	16.08	17.03	16.52	17.41	17.84
4H	2H	16.75	17.88	17.16	18.23	18.61	14.18	15.31	14.58	15.66	16.04
	3H	18.73	19.66	19.14	20.07	20.47	16.36	17.29	16.77	17.69	18.09
	4H	19.53	20.37	19.97	20.79	21.23	17.24	18.07	17.67	18.49	18.93
	6H	20.18	20.90	20.64	21.35	21.81	17.88	18.60	18.34	19.05	19.51
	8H	20.40	21.07	20.87	21.52	21.99	18.09	18.76	18.56	19.21	19.68
	12H	20.55	21.15	21.04	21.63	22.11	18.25	18.85	18.73	19.33	19.80
8H	4H	19.82	20.49	20.29	20.94	21.41	17.89	18.56	18.35	19.01	19.48
	6H	20.60	21.16	21.10	21.65	22.13	18.75	19.30	19.25	19.80	20.28
	8H	20.90	21.40	21.42	21.92	22.41	19.07	19.57	19.59	20.09	20.58
	12H	21.14	21.58	21.65	22.07	22.64	19.34	19.78	19.85	20.27	20.84
12H	4H	19.84	20.44	20.32	20.92	21.39	17.96	18.56	18.44	19.04	19.51
	6H	20.65	21.15	21.17	21.67	22.16	18.88	19.38	19.40	19.90	20.39
	8H	21.02	21.46	21.53	21.95	22.52	19.30	19.74	19.81	20.23	20.80