

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: P894531

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894531
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-7)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-12SL-LVRF-UNV-L940
Description: 12000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 90CRI, 4000K (C)
Light Source: -
Ballast/Driver: -

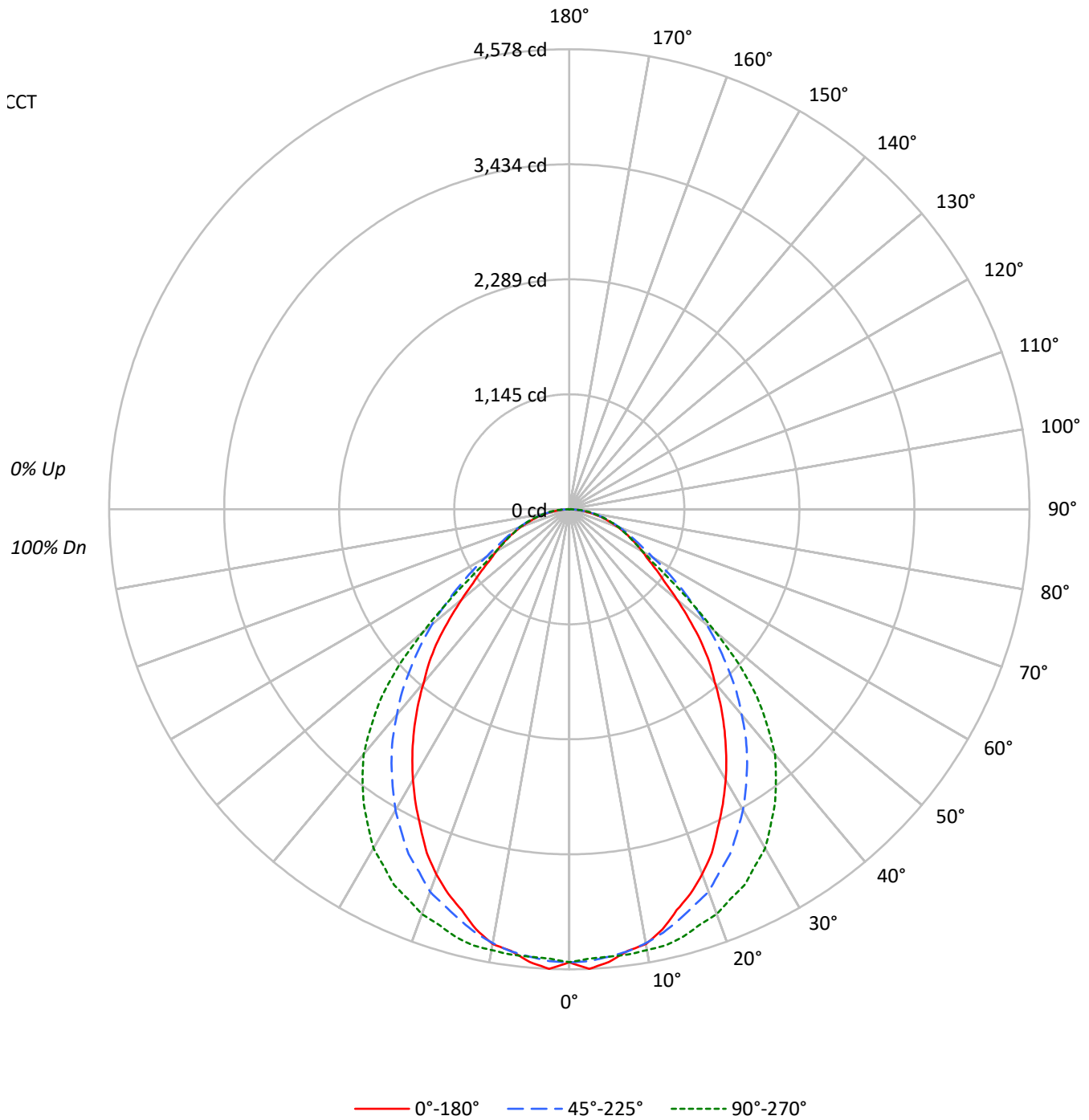
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9368.0 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.27 / 1.23
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	102	100
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	89	89	87
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	77	77	75
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	71	67	67	67	65
4	87	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59	59	59	57
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	56	52	52	52	50
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	47	47	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	42	42	40
8	65	52	44	39	63	52	44	39	50	44	39	49	43	38	48	42	38	38	38	36
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15993	15993	15993
5°	16104	15920	15920
10°	15826	15801	16045
15°	15171	15524	16161
20°	14594	15294	16187
25°	13691	14820	16151
30°	12743	14165	15961
35°	11666	13361	15453
40°	10444	12355	14743
45°	9268	11185	13256
50°	7711	9846	10454
55°	6568	8294	7598
60°	5954	6853	6005
65°	5608	6002	5589
70°	5276	5569	5446
75°	4916	5303	5205
80°	4501	4886	5029
85°	3912	4295	5630

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 13256 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	426.7	4.6
10°-20°	1200.8	12.8
20°-30°	1743.9	18.6
30°-40°	1941.9	20.7
40°-50°	1715.6	18.3
50°-60°	1125.7	12.0
60°-70°	689.3	7.4
70°-80°	401.1	4.3
80°-90°	122.9	1.3
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°	3371.4	36.0
0°-40°	5313.3	56.7
0°-60°	8154.7	87.0
0°-90°	9368.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9368.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4508	4508	4508	4508	4508	
5°	4522	4524	4470	4514	4470	426
15°	4130	4177	4226	4393	4400	1165
25°	3497	3582	3786	4027	4125	1609
35°	2693	2838	3085	3410	3568	1680
45°	1847	1960	2229	2529	2642	1413
55°	1062	1137	1341	1329	1228	963
65°	668	680	715	694	666	664
75°	359	363	387	394	380	380
85°	96	101	106	120	138	108
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4507.5	4507.5	4507.5	4507.5	4507.5
2.5°	4577.8	4521.5	4500.4	4521.5	4474.6
5°	4521.5	4523.9	4469.9	4514.5	4469.9
7.5°	4432.4	4462.9	4437.1	4505.1	4469.9
10°	4392.6	4394.9	4385.6	4455.9	4453.5
12.5°	4282.4	4289.5	4315.2	4420.7	4444.2
15°	4130.1	4177.0	4226.2	4392.6	4399.6
17.5°	4010.5	4066.8	4132.4	4310.6	4331.7
20°	3865.2	3888.6	4050.4	4207.4	4287.1
22.5°	3703.5	3748.0	3905.1	4116.0	4195.7
25°	3497.2	3581.6	3785.5	4026.9	4125.4
27.5°	3307.3	3405.8	3616.7	3886.3	4001.2
30°	3110.4	3223.0	3457.4	3722.2	3895.7
32.5°	2906.5	3047.2	3269.8	3574.6	3726.9
35°	2693.2	2838.5	3084.7	3410.5	3567.5
37.5°	2479.9	2620.6	2887.8	3237.0	3377.7
40°	2254.9	2393.2	2667.4	3021.4	3183.1
42.5°	2060.3	2179.9	2461.2	2763.5	2913.6
45°	1847.0	1959.6	2229.1	2529.1	2641.7
47.5°	1612.7	1743.9	2006.4	2252.6	2297.1
50°	1397.0	1533.0	1783.8	1926.7	1893.9
52.5°	1207.1	1322.0	1551.7	1612.7	1535.3
55°	1061.8	1136.8	1340.8	1329.0	1228.2
57.5°	928.2	975.1	1148.5	1082.9	986.8
60°	839.1	860.2	965.7	904.8	846.2
62.5°	754.8	764.1	820.4	787.6	743.0
65°	668.0	679.8	714.9	693.8	665.7
67.5°	588.3	593.0	625.8	621.2	586.0
70°	508.6	515.7	536.8	546.1	525.0
72.5°	431.3	438.3	459.4	468.8	450.0
75°	358.6	363.3	386.8	393.8	379.7
77.5°	288.3	297.7	311.7	323.5	307.1
80°	220.3	225.0	239.1	253.1	246.1
82.5°	154.7	161.7	171.1	189.9	194.5
85°	96.1	100.8	105.5	119.5	138.3
87.5°	37.5	39.8	46.9	51.6	68.0
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	17.16	18.64	17.53	18.96	19.27	17.81	19.29	18.18	19.61	19.92
	3H	18.76	20.09	19.14	20.42	20.78	19.25	20.57	19.63	20.90	21.27
	4H	19.38	20.62	19.78	20.97	21.35	19.85	21.10	20.25	21.45	21.82
	6H	19.85	21.00	20.26	21.36	21.76	20.34	21.49	20.75	21.85	22.25
	8H	20.00	21.09	20.43	21.48	21.88	20.54	21.63	20.96	22.02	22.42
	12H	20.10	21.15	20.53	21.53	21.96	20.71	21.75	21.14	22.13	22.56
4H	2H	17.78	19.03	18.18	19.37	19.75	18.31	19.55	18.71	19.90	20.28
	3H	19.60	20.63	20.01	21.03	21.43	20.00	21.03	20.41	21.43	21.83
	4H	20.34	21.27	20.77	21.68	22.12	20.76	21.68	21.19	22.10	22.54
	6H	20.94	21.74	21.40	22.19	22.65	21.39	22.20	21.85	22.64	23.10
	8H	21.14	21.89	21.60	22.33	22.80	21.65	22.40	22.11	22.84	23.31
	12H	21.28	21.95	21.76	22.43	22.90	21.87	22.54	22.35	23.02	23.49
8H	4H	20.66	21.41	21.12	21.86	22.33	21.03	21.78	21.49	22.22	22.69
	6H	21.38	22.01	21.88	22.50	22.98	21.80	22.43	22.30	22.92	23.40
	8H	21.66	22.22	22.17	22.73	23.22	22.15	22.71	22.66	23.22	23.71
	12H	21.87	22.37	22.39	22.86	23.43	22.46	22.96	22.98	23.45	24.02
12H	4H	20.69	21.37	21.18	21.85	22.32	21.05	21.72	21.53	22.20	22.67
	6H	21.45	22.01	21.96	22.52	23.01	21.85	22.41	22.36	22.92	23.41
	8H	21.78	22.28	22.29	22.77	23.34	22.25	22.75	22.76	23.24	23.81