

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: P894530

Luminaire Tested: 8TMB-12SL-LVRF-UNV-L935

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894530
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-L935
Description: 12000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 90CRI, 3500K (C)
Light Source: -
Ballast/Driver: -

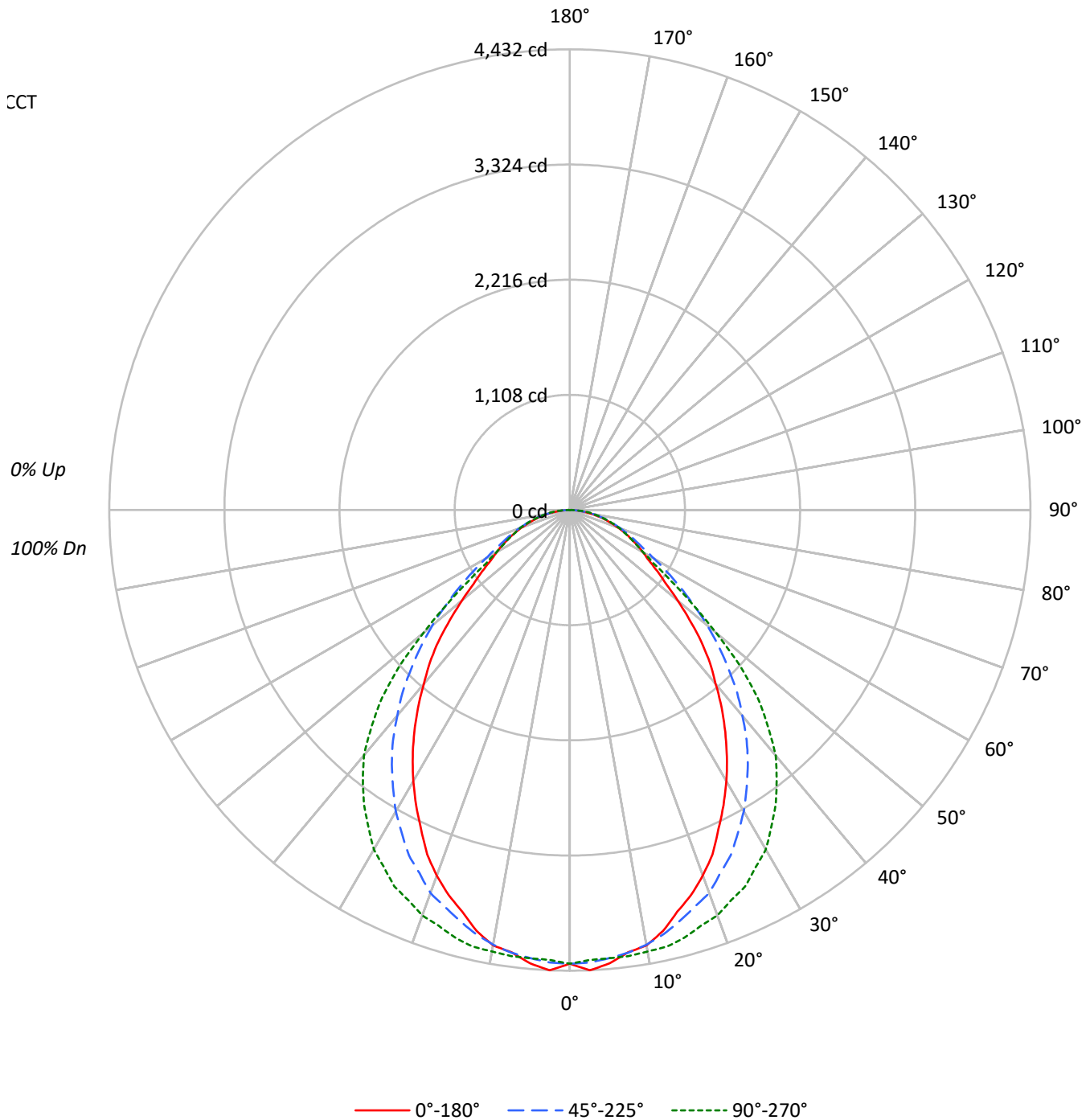
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9070.0 lumens
Efficiency: N/A
Efficacy: 102.1 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	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	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	89	89	89	87
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	77	77	77	75
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	71	67	67	67	67	65
4	87	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59	59	59	59	57
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	56	52	52	52	52	50
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	47	47	47	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	42	42	42	40
8	65	52	44	39	63	52	44	39	50	44	39	49	43	38	48	42	38	38	38	38	36
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15484	15484	15484
5°	15592	15414	15414
10°	15323	15298	15535
15°	14688	15030	15647
20°	14130	14807	15672
25°	13256	14349	15637
30°	12338	13714	15453
35°	11294	12936	14961
40°	10112	11962	14275
45°	8973	10829	12834
50°	7466	9533	10122
55°	6359	8030	7356
60°	5765	6635	5814
65°	5430	5811	5411
70°	5109	5391	5273
75°	4760	5134	5039
80°	4358	4730	4869
85°	3786	4157	5451

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 12834 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.2	4.6
10°-20°	1162.6	12.8
20°-30°	1688.4	18.6
30°-40°	1880.1	20.7
40°-50°	1661.0	18.3
50°-60°	1089.9	12.0
60°-70°	667.4	7.4
70°-80°	388.4	4.3
80°-90°	119.0	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°	3264.2	36.0
0°-40°	5144.3	56.7
0°-60°	7895.3	87.0
0°-90°	9070.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9070.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4364	4364	4364	4364	4364	
5°	4378	4380	4328	4371	4328	413
15°	3999	4044	4092	4253	4260	1128
25°	3386	3468	3665	3899	3994	1558
35°	2608	2748	2986	3302	3454	1626
45°	1788	1897	2158	2449	2558	1368
55°	1028	1101	1298	1287	1189	932
65°	647	658	692	672	644	643
75°	347	352	374	381	368	368
85°	93	98	102	116	134	105
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4364.1	4364.1	4364.1	4364.1	4364.1
2.5°	4432.2	4377.7	4357.3	4377.7	4332.3
5°	4377.7	4380.0	4327.8	4370.9	4327.8
7.5°	4291.4	4320.9	4296.0	4361.8	4327.8
10°	4252.9	4255.1	4246.1	4314.1	4311.9
12.5°	4146.2	4153.0	4178.0	4280.1	4302.8
15°	3998.7	4044.1	4091.7	4252.9	4259.7
17.5°	3883.0	3937.4	4001.0	4173.4	4193.9
20°	3742.3	3764.9	3921.5	4073.6	4150.7
22.5°	3585.7	3628.8	3780.8	3985.1	4062.2
25°	3386.0	3467.7	3665.1	3898.8	3994.2
27.5°	3202.1	3297.4	3501.7	3762.7	3873.9
30°	3011.5	3120.4	3347.4	3603.8	3771.8
32.5°	2814.1	2950.2	3165.8	3460.8	3608.4
35°	2607.5	2748.3	2986.5	3302.0	3454.0
37.5°	2401.0	2537.2	2795.9	3134.1	3270.2
40°	2183.2	2317.1	2582.6	2925.3	3081.9
42.5°	1994.8	2110.5	2382.9	2675.6	2820.9
45°	1788.3	1897.2	2158.2	2448.7	2557.6
47.5°	1561.4	1688.4	1942.6	2180.9	2224.0
50°	1352.6	1484.2	1727.0	1865.5	1833.7
52.5°	1168.7	1279.9	1502.3	1561.4	1486.5
55°	1028.0	1100.7	1298.1	1286.8	1189.2
57.5°	898.7	944.1	1112.0	1048.5	955.4
60°	812.4	832.9	935.0	876.0	819.3
62.5°	730.7	739.8	794.3	762.5	719.4
65°	646.8	658.1	692.2	671.7	644.5
67.5°	569.6	574.2	605.9	601.4	567.4
70°	492.5	499.3	519.7	528.8	508.3
72.5°	417.6	424.4	444.8	453.9	435.7
75°	347.2	351.8	374.5	381.3	367.6
77.5°	279.1	288.2	301.8	313.2	297.3
80°	213.3	217.9	231.5	245.1	238.3
82.5°	149.8	156.6	165.7	183.8	188.4
85°	93.0	97.6	102.1	115.7	133.9
87.5°	36.3	38.6	45.4	49.9	65.8
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	17.05	18.53	17.41	18.84	19.16	17.70	19.18	18.07	19.50	19.81
	3H	18.65	19.98	19.03	20.30	20.67	19.14	20.46	19.51	20.79	21.15
	4H	19.27	20.51	19.67	20.86	21.24	19.74	20.98	20.14	21.33	21.71
	6H	19.74	20.88	20.15	21.25	21.64	20.23	21.37	20.64	21.74	22.13
	8H	19.89	20.98	20.32	21.37	21.77	20.43	21.52	20.85	21.91	22.31
	12H	19.99	21.03	20.42	21.42	21.85	20.59	21.64	21.02	22.02	22.45
4H	2H	17.67	18.91	18.07	19.26	19.64	18.19	19.44	18.59	19.79	20.17
	3H	19.49	20.52	19.90	20.92	21.32	19.89	20.92	20.30	21.32	21.72
	4H	20.23	21.16	20.66	21.57	22.01	20.65	21.57	21.08	21.99	22.43
	6H	20.83	21.63	21.29	22.08	22.54	21.28	22.09	21.74	22.53	22.99
	8H	21.02	21.78	21.49	22.22	22.69	21.54	22.29	22.00	22.73	23.20
	12H	21.17	21.84	21.65	22.32	22.79	21.76	22.43	22.24	22.91	23.38
8H	4H	20.55	21.30	21.01	21.75	22.21	20.92	21.67	21.38	22.11	22.58
	6H	21.27	21.90	21.77	22.39	22.87	21.69	22.31	22.19	22.80	23.28
	8H	21.54	22.11	22.06	22.62	23.10	22.03	22.60	22.55	23.11	23.59
	12H	21.76	22.26	22.27	22.75	23.32	22.35	22.85	22.86	23.34	23.91
12H	4H	20.58	21.25	21.07	21.73	22.21	20.94	21.61	21.42	22.09	22.56
	6H	21.34	21.90	21.85	22.41	22.90	21.74	22.30	22.25	22.81	23.30
	8H	21.67	22.17	22.18	22.66	23.22	22.14	22.64	22.65	23.13	23.70