

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: P894539

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894539
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2408-210-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-12SL-RFLW-UNV-L940
Description: 12000 Lumen 8FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 90CRI, 4000K
Light Source: -
Ballast/Driver: -

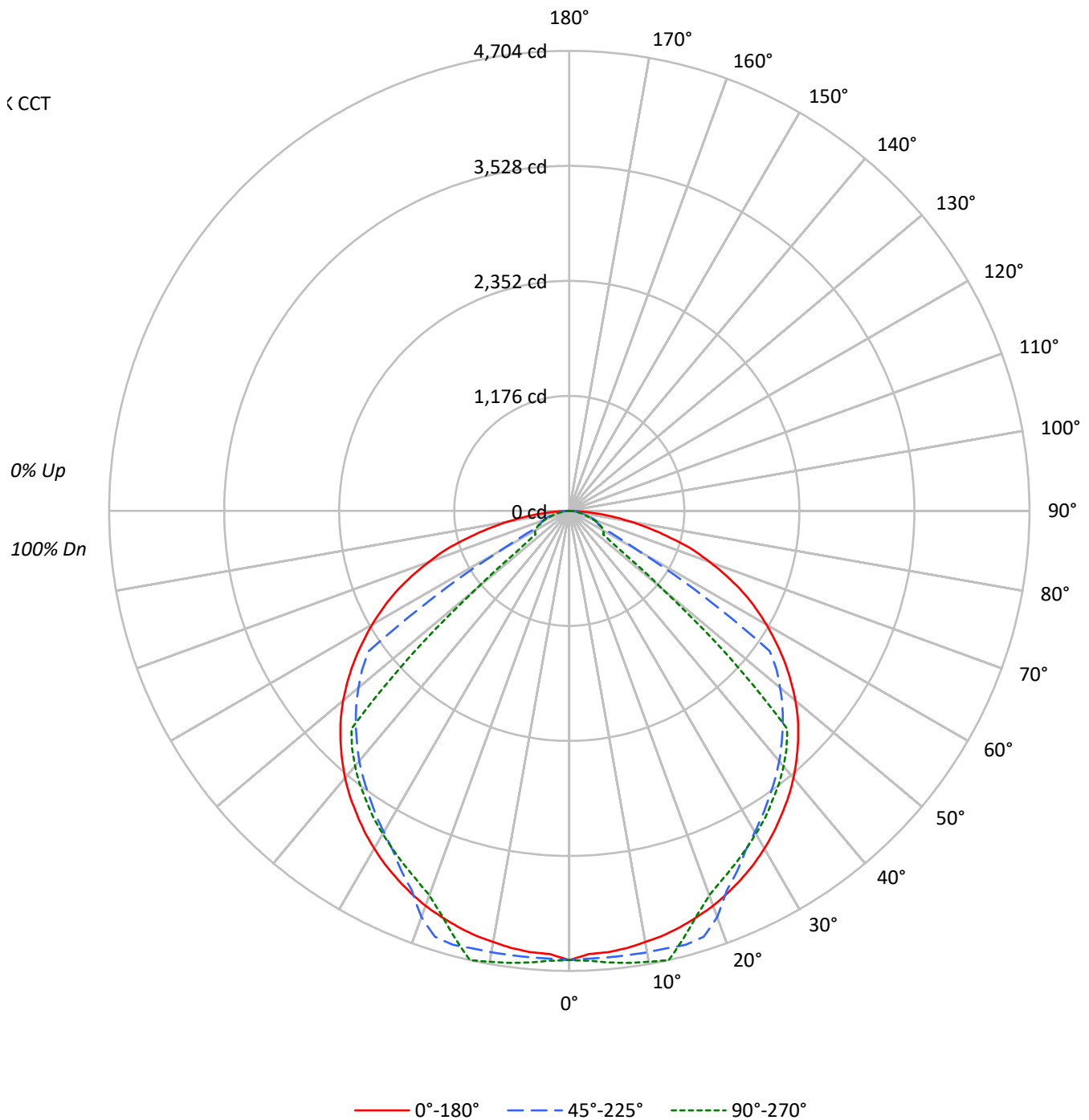
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11202.0 lumens
Efficiency: N/A
Efficacy: 126.1 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.24 / 1.38
Luminous Opening: Rectangular (W 0.21' 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									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	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	100																												
1	110	106	102	99	108	104	101	98	100	97	94	96	94	92	92	91	89	87																												
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75																												
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64																												
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56																												
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	61	55	51	49																												
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43																												
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38																												
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	35																												
9	60	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	31																												
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	28																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	29741	29741	29741
5°	29444	29786	30128
10°	29438	30131	30788
15°	29519	30790	30296
20°	29617	30452	28819
25°	29692	29015	28526
30°	29813	28356	28514
35°	29936	28188	28604
40°	30142	28227	28806
45°	30291	28265	28844
50°	30403	28334	12470
55°	30326	28245	4757
60°	30151	10778	5184
65°	29941	5004	5326
70°	28920	5385	4987
75°	27016	5139	4348
80°	23765	4516	3733
85°	18782	3915	3128

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 30403 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	438.6	3.9
10°-20°	1273.6	11.4
20°-30°	1900.3	17.0
30°-40°	2303.4	20.6
40°-50°	2358.5	21.1
50°-60°	1568.5	14.0
60°-70°	894.0	8.0
70°-80°	375.6	3.4
80°-90°	89.5	0.8
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°	3612.5	32.2
0°-40°	5915.9	52.8
0°-60°	9842.9	87.9
0°-90°	11202.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11202.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4593	4593	4593	4593	4593	
5°	4530	4619	4582	4593	4635	431
15°	4403	4524	4593	4577	4519	1244
25°	4156	4356	4061	3971	3992	1917
35°	3787	3856	3566	3582	3618	2372
45°	3308	3108	3086	3123	3150	2552
55°	2686	2460	2502	548	421	2399
65°	1954	1749	327	348	348	1923
75°	1080	226	205	179	174	1146
85°	253	63	53	42	42	303
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4592.9	4592.9	4592.9	4592.9	4592.9
2.5°	4535.0	4629.8	4582.4	4587.6	4603.4
5°	4529.7	4619.2	4582.4	4592.9	4635.0
7.5°	4508.6	4603.4	4582.4	4614.0	4661.4
10°	4477.0	4587.6	4582.4	4635.0	4682.4
12.5°	4445.4	4556.0	4582.4	4661.4	4703.5
15°	4403.3	4524.4	4592.9	4577.1	4519.2
17.5°	4350.6	4492.8	4566.6	4340.1	4334.8
20°	4297.9	4450.7	4419.1	4203.1	4182.1
22.5°	4229.5	4408.6	4203.1	4055.7	4082.0
25°	4155.7	4355.9	4060.9	3971.4	3992.5
27.5°	4076.7	4303.2	3908.2	3876.6	3902.9
30°	3987.2	4229.5	3792.3	3781.8	3813.4
32.5°	3892.4	4087.3	3681.7	3687.0	3723.8
35°	3787.0	3855.5	3565.8	3581.6	3618.5
37.5°	3681.7	3639.6	3455.2	3481.5	3518.4
40°	3565.8	3471.0	3339.3	3365.7	3407.8
42.5°	3439.4	3291.9	3212.9	3249.8	3286.7
45°	3307.7	3107.6	3086.5	3123.4	3149.7
47.5°	3170.8	2949.6	2954.8	2981.2	2233.2
50°	3018.0	2791.6	2812.6	1948.8	1237.8
52.5°	2854.8	2628.3	2670.4	1085.0	626.8
55°	2686.2	2459.7	2501.9	547.8	421.4
57.5°	2507.1	2291.2	1632.8	395.0	416.1
60°	2328.1	2112.1	832.2	389.8	400.3
62.5°	2143.7	1933.0	395.0	374.0	379.2
65°	1954.1	1748.7	326.6	347.6	347.6
67.5°	1743.4	1553.8	310.8	310.8	305.5
70°	1527.5	1290.4	284.4	268.6	263.4
72.5°	1327.3	495.1	247.6	221.2	216.0
75°	1079.8	226.5	205.4	179.1	173.8
77.5°	858.5	189.6	163.3	142.2	136.9
80°	637.3	147.5	121.1	105.3	100.1
82.5°	442.4	100.1	84.3	68.5	68.5
85°	252.8	63.2	52.7	42.1	42.1
87.5°	100.1	31.6	26.3	15.8	15.8
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	24.71	26.23	25.08	26.55	26.86	12.48	14.00	12.84	14.31	14.63
	3H	26.73	28.09	27.11	28.42	28.78	14.79	16.15	15.17	16.48	16.84
	4H	27.20	28.47	27.60	28.82	29.19	15.51	16.78	15.91	17.13	17.51
	6H	27.60	28.77	28.01	29.14	29.53	15.99	17.16	16.40	17.53	17.92
	8H	27.75	28.87	28.18	29.26	29.66	16.13	17.24	16.55	17.63	18.03
	12H	27.85	28.92	28.28	29.30	29.73	16.21	17.28	16.64	17.66	18.09
4H	2H	24.55	25.83	24.95	26.17	26.55	13.28	14.55	13.68	14.90	15.28
	3H	26.76	27.80	27.17	28.20	28.61	15.79	16.83	16.20	17.23	17.64
	4H	27.20	28.14	27.64	28.56	29.00	16.61	17.55	17.04	17.96	18.40
	6H	27.67	28.49	28.13	28.93	29.39	17.20	18.01	17.66	18.46	18.92
	8H	27.86	28.62	28.33	29.07	29.54	17.37	18.13	17.83	18.57	19.04
	12H	28.01	28.69	28.50	29.17	29.64	17.49	18.17	17.97	18.65	19.12
8H	4H	27.12	27.88	27.59	28.33	28.80	17.45	18.21	17.91	18.65	19.12
	6H	27.58	28.21	28.08	28.70	29.18	18.07	18.70	18.57	19.19	19.67
	8H	27.78	28.35	28.30	28.86	29.35	18.27	18.83	18.78	19.34	19.83
	12H	27.97	28.47	28.48	28.96	29.53	18.43	18.93	18.94	19.42	19.98
12H	4H	27.09	27.77	27.58	28.25	28.72	17.52	18.20	18.00	18.68	19.15
	6H	27.54	28.10	28.05	28.61	29.10	18.16	18.73	18.68	19.24	19.73
	8H	27.76	28.26	28.27	28.75	29.32	18.42	18.92	18.93	19.41	19.97