

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: P894540

Luminaire Tested: 8TMB-12SL-RFLW-UNV-L950

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894540
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-L950
Description: 12000 Lumen 8FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 90CRI, 5000K
Light Source: -
Ballast/Driver: -

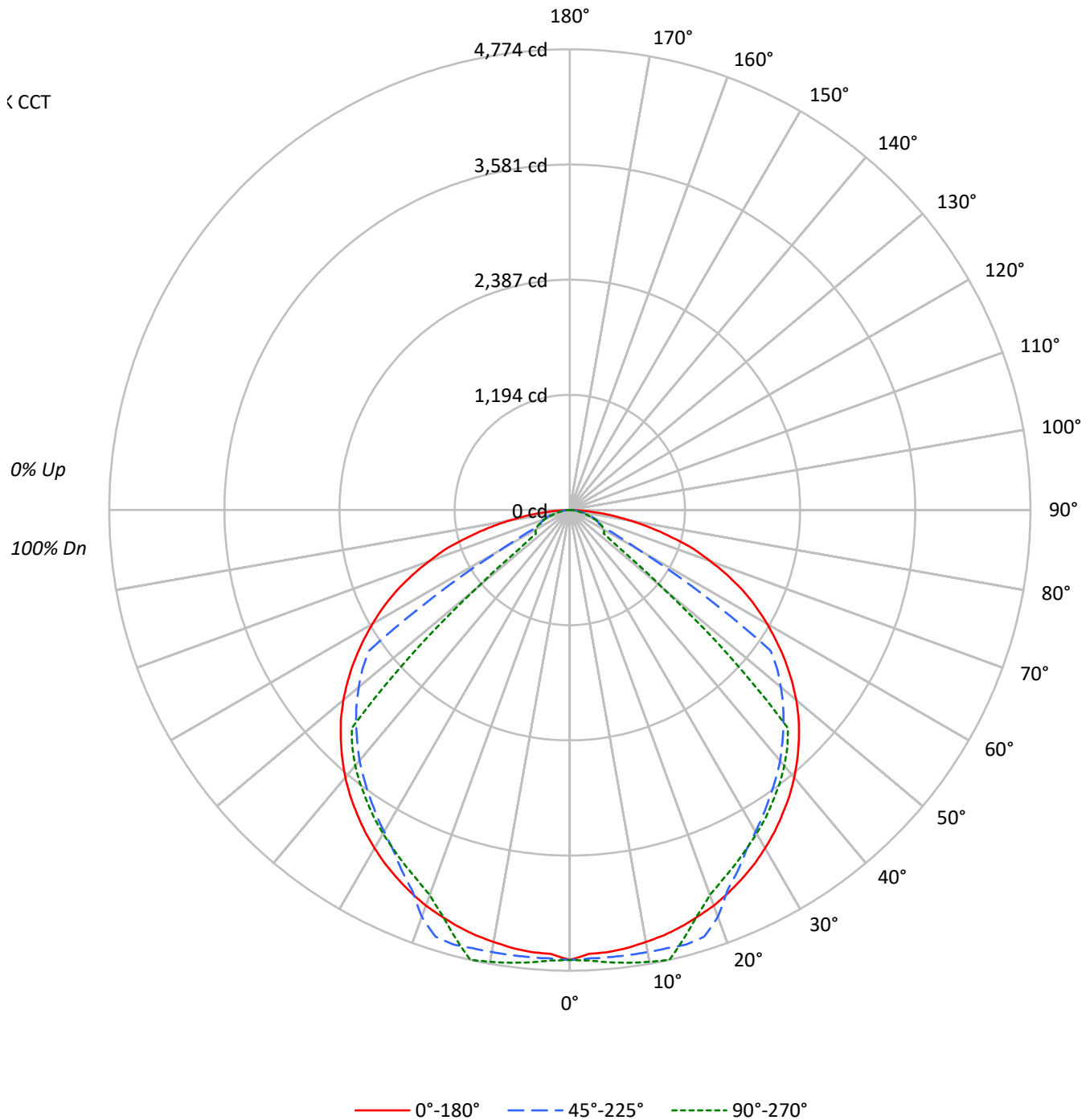
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11371.0 lumens
Efficiency: N/A
Efficacy: 128.1 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				
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	101	98	100	97	94	96	94	92	92	91	89	89	89	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	77	77	77	75
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	66	66	66	64
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	58	58	58	56
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	61	55	51	51	51	51	49
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	45	45	45	43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	40	40	40	38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	36	36	36	35
9	60	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	33	33	33	31
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	30	30	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	30190	30190	30190
5°	29888	30236	30583
10°	29882	30585	31253
15°	29964	31255	30753
20°	30064	30912	29254
25°	30140	29453	28956
30°	30262	28784	28944
35°	30389	28613	29036
40°	30597	28653	29241
45°	30748	28692	29279
50°	30863	28762	12657
55°	30783	28671	4829
60°	30606	10941	5262
65°	30393	5079	5407
70°	29356	5466	5061
75°	27421	5217	4413
80°	24123	4587	3789
85°	19065	3975	3180

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 30863 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	445.2	3.9
10°-20°	1292.8	11.4
20°-30°	1929.0	17.0
30°-40°	2338.1	20.6
40°-50°	2394.1	21.1
50°-60°	1592.1	14.0
60°-70°	907.5	8.0
70°-80°	381.2	3.4
80°-90°	90.9	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°	3667.1	32.2
0°-40°	6005.2	52.8
0°-60°	9991.4	87.9
0°-90°	11371.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11371.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4662	4662	4662	4662	4662	
5°	4598	4689	4652	4662	4705	437
15°	4470	4593	4662	4646	4587	1262
25°	4218	4422	4122	4031	4053	1946
35°	3844	3914	3620	3636	3673	2408
45°	3358	3154	3133	3170	3197	2590
55°	2727	2497	2540	556	428	2435
65°	1984	1775	332	353	353	1952
75°	1096	230	208	182	176	1164
85°	257	64	54	43	43	308
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4662.2	4662.2	4662.2	4662.2	4662.2
2.5°	4603.4	4699.6	4651.5	4656.9	4672.9
5°	4598.0	4688.9	4651.5	4662.2	4705.0
7.5°	4576.7	4672.9	4651.5	4683.6	4731.7
10°	4544.6	4656.9	4651.5	4705.0	4753.1
12.5°	4512.5	4624.8	4651.5	4731.7	4774.5
15°	4469.7	4592.7	4662.2	4646.2	4587.3
17.5°	4416.3	4560.6	4635.5	4405.6	4400.2
20°	4362.8	4517.8	4485.8	4266.6	4245.2
22.5°	4293.3	4475.1	4266.6	4116.8	4143.6
25°	4218.4	4421.6	4122.2	4031.3	4052.7
27.5°	4138.2	4368.1	3967.1	3935.1	3961.8
30°	4047.3	4293.3	3849.5	3838.8	3870.9
32.5°	3951.1	4148.9	3737.2	3742.6	3780.0
35°	3844.2	3913.7	3619.6	3635.7	3673.1
37.5°	3737.2	3694.5	3507.3	3534.1	3571.5
40°	3619.6	3523.4	3389.7	3416.4	3459.2
42.5°	3491.3	3341.6	3261.4	3298.8	3336.3
45°	3357.6	3154.5	3133.1	3170.5	3197.2
47.5°	3218.6	2994.1	2999.4	3026.2	2266.9
50°	3063.6	2833.7	2855.1	1978.2	1256.4
52.5°	2897.8	2667.9	2710.7	1101.4	636.2
55°	2726.7	2496.8	2539.6	556.0	427.7
57.5°	2545.0	2325.8	1657.4	401.0	422.4
60°	2363.2	2144.0	844.8	395.6	406.3
62.5°	2176.0	1962.2	401.0	379.6	385.0
65°	1983.6	1775.1	331.5	352.9	352.9
67.5°	1769.7	1577.2	315.4	315.4	310.1
70°	1550.5	1309.9	288.7	272.7	267.3
72.5°	1347.3	502.6	251.3	224.6	219.2
75°	1096.0	229.9	208.5	181.8	176.4
77.5°	871.5	192.5	165.7	144.4	139.0
80°	646.9	149.7	123.0	106.9	101.6
82.5°	449.1	101.6	85.5	69.5	69.5
85°	256.6	64.2	53.5	42.8	42.8
87.5°	101.6	32.1	26.7	16.0	16.0
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	24.76	26.29	25.13	26.60	26.91	12.53	14.05	12.89	14.37	14.68
	3H	26.78	28.14	27.16	28.47	28.83	14.84	16.20	15.22	16.53	16.89
	4H	27.25	28.52	27.65	28.87	29.25	15.56	16.83	15.96	17.18	17.56
	6H	27.65	28.83	28.07	29.19	29.59	16.04	17.21	16.45	17.58	17.97
	8H	27.80	28.92	28.23	29.31	29.71	16.18	17.30	16.61	17.68	18.09
	12H	27.90	28.97	28.33	29.35	29.78	16.27	17.33	16.70	17.72	18.14
4H	2H	24.61	25.88	25.01	26.23	26.61	13.33	14.60	13.73	14.95	15.33
	3H	26.81	27.86	27.22	28.26	28.66	15.84	16.89	16.25	17.29	17.69
	4H	27.26	28.20	27.69	28.61	29.05	16.66	17.60	17.09	18.01	18.45
	6H	27.72	28.54	28.18	28.98	29.44	17.25	18.07	17.71	18.51	18.97
	8H	27.91	28.68	28.38	29.12	29.59	17.42	18.18	17.89	18.63	19.09
	12H	28.07	28.75	28.55	29.22	29.70	17.54	18.22	18.02	18.70	19.17
8H	4H	27.18	27.94	27.64	28.38	28.85	17.50	18.26	17.96	18.70	19.17
	6H	27.64	28.26	28.13	28.76	29.23	18.12	18.75	18.62	19.24	19.72
	8H	27.83	28.40	28.35	28.91	29.40	18.32	18.89	18.84	19.40	19.89
	12H	28.02	28.52	28.53	29.01	29.58	18.48	18.98	18.99	19.47	20.04
12H	4H	27.14	27.82	27.63	28.30	28.77	17.57	18.25	18.05	18.73	19.20
	6H	27.59	28.15	28.10	28.66	29.15	18.21	18.78	18.73	19.29	19.78
	8H	27.81	28.31	28.32	28.80	29.37	18.47	18.97	18.98	19.46	20.03