

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: P894538

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894538
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-L935
Description: 12000 Lumen 8FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 90CRI, 3500K
Light Source: -
Ballast/Driver: -

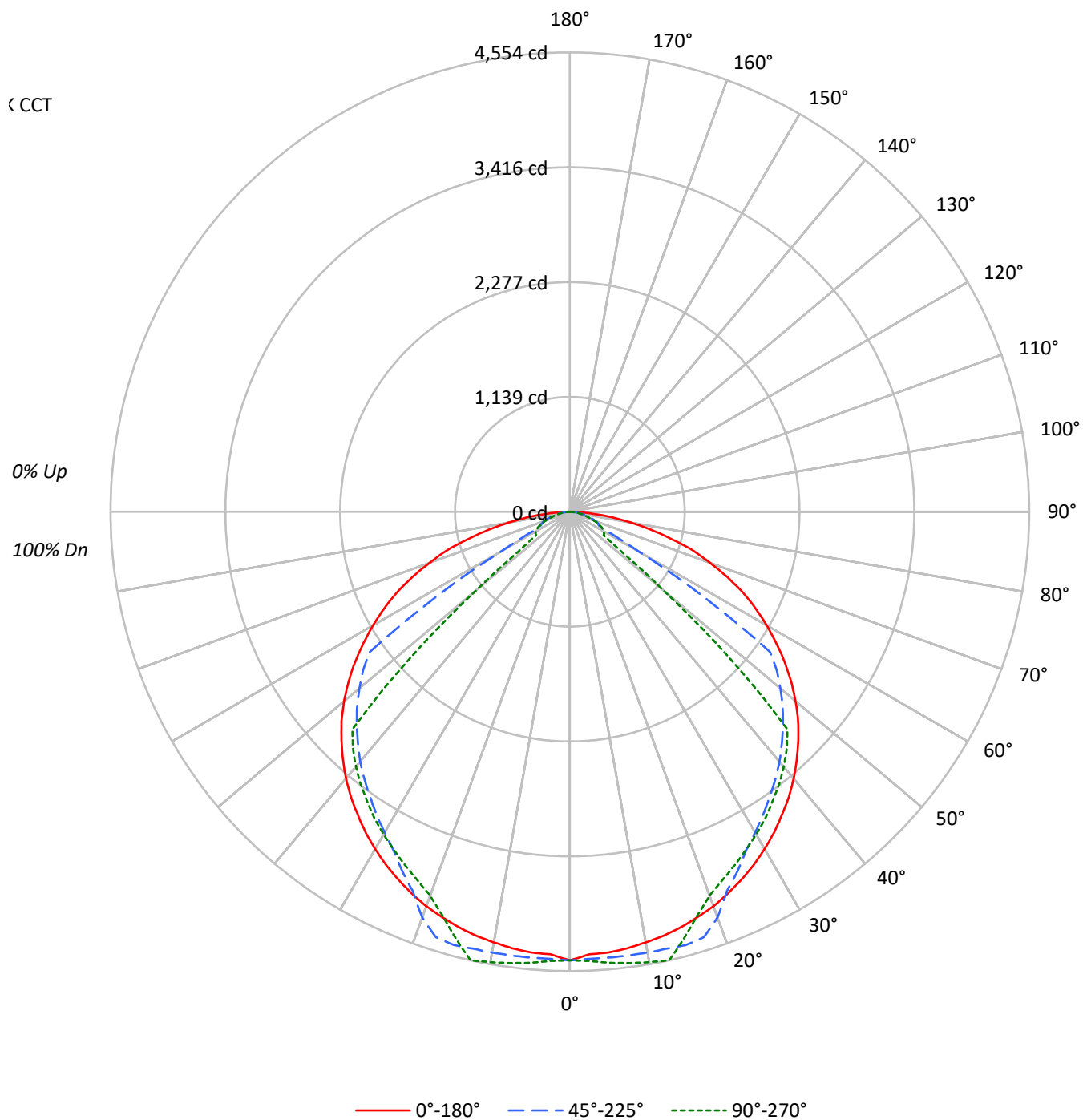
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10846.0 lumens
Efficiency: N/A
Efficacy: 122.1 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	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°	28796	28796	28796
5°	28508	28839	29171
10°	28502	29173	29810
15°	28581	29811	29333
20°	28676	29485	27903
25°	28749	28093	27619
30°	28866	27455	27607
35°	28986	27292	27695
40°	29184	27331	27891
45°	29328	27367	27927
50°	29437	27434	12073
55°	29362	27348	4606
60°	29193	10436	5020
65°	28990	4845	5157
70°	28000	5214	4828
75°	26155	4976	4211
80°	23012	4374	3613
85°	18188	3789	3031

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 50°

Luminance: 29437 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	424.7	3.9
10°-20°	1233.1	11.4
20°-30°	1839.9	17.0
30°-40°	2230.2	20.6
40°-50°	2283.6	21.1
50°-60°	1518.6	14.0
60°-70°	865.6	8.0
70°-80°	363.6	3.4
80°-90°	86.7	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°	3497.7	32.2
0°-40°	5727.9	52.8
0°-60°	9530.1	87.9
0°-90°	10846.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10846.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4447	4447	4447	4447	4447	
5°	4386	4472	4437	4447	4488	417
15°	4263	4381	4447	4432	4376	1204
25°	4024	4218	3932	3845	3866	1856
35°	3667	3733	3452	3468	3504	2297
45°	3203	3009	2988	3024	3050	2471
55°	2601	2382	2422	530	408	2322
65°	1892	1693	316	337	337	1862
75°	1045	219	199	173	168	1110
85°	245	61	51	41	41	293
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4446.9	4446.9	4446.9	4446.9	4446.9
2.5°	4390.8	4482.6	4436.7	4441.8	4457.1
5°	4385.7	4472.4	4436.7	4446.9	4487.7
7.5°	4365.3	4457.1	4436.7	4467.3	4513.2
10°	4334.7	4441.8	4436.7	4487.7	4533.6
12.5°	4304.2	4411.2	4436.7	4513.2	4554.0
15°	4263.4	4380.6	4446.9	4431.6	4375.5
17.5°	4212.4	4350.0	4421.4	4202.2	4197.1
20°	4161.4	4309.3	4278.7	4069.6	4049.2
22.5°	4095.1	4268.5	4069.6	3926.8	3952.3
25°	4023.7	4217.5	3931.9	3845.2	3865.6
27.5°	3947.2	4166.5	3784.0	3753.4	3778.9
30°	3860.5	4095.1	3671.8	3661.6	3692.2
32.5°	3768.7	3957.4	3564.7	3569.8	3605.5
35°	3666.7	3733.0	3452.5	3467.8	3503.5
37.5°	3564.7	3523.9	3345.4	3370.9	3406.6
40°	3452.5	3360.7	3233.2	3258.7	3299.5
42.5°	3330.1	3187.3	3110.8	3146.5	3182.2
45°	3202.6	3008.8	2988.4	3024.1	3049.6
47.5°	3070.0	2855.8	2860.9	2886.4	2162.3
50°	2922.1	2702.8	2723.2	1886.9	1198.4
52.5°	2764.0	2544.8	2585.6	1050.5	606.9
55°	2600.8	2381.6	2422.4	530.4	408.0
57.5°	2427.5	2218.4	1580.9	382.5	402.9
60°	2254.1	2045.0	805.8	377.4	387.6
62.5°	2075.6	1871.6	382.5	362.1	367.2
65°	1892.0	1693.1	316.2	336.6	336.6
67.5°	1688.0	1504.4	300.9	300.9	295.8
70°	1478.9	1249.4	275.4	260.1	255.0
72.5°	1285.1	479.4	239.7	214.2	209.1
75°	1045.4	219.3	198.9	173.4	168.3
77.5°	831.3	183.6	158.1	137.7	132.6
80°	617.1	142.8	117.3	102.0	96.9
82.5°	428.4	96.9	81.6	66.3	66.3
85°	244.8	61.2	51.0	40.8	40.8
87.5°	96.9	30.6	25.5	15.3	15.3
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	24.60	26.12	24.97	26.44	26.75	12.37	13.89	12.73	14.20	14.52
	3H	26.62	27.98	27.00	28.31	28.67	14.68	16.04	15.06	16.37	16.73
	4H	27.08	28.35	27.48	28.70	29.08	15.39	16.67	15.79	17.01	17.39
	6H	27.49	28.66	27.90	29.03	29.42	15.88	17.05	16.29	17.42	17.81
	8H	27.64	28.75	28.07	29.14	29.55	16.02	17.13	16.44	17.52	17.92
	12H	27.74	28.80	28.17	29.19	29.62	16.10	17.17	16.53	17.55	17.98
4H	2H	24.44	25.71	24.84	26.06	26.44	13.16	14.44	13.56	14.79	15.16
	3H	26.65	27.69	27.06	28.09	28.49	15.68	16.72	16.09	17.12	17.52
	4H	27.09	28.03	27.53	28.45	28.89	16.50	17.43	16.93	17.85	18.29
	6H	27.56	28.37	28.02	28.82	29.28	17.09	17.90	17.55	18.35	18.81
	8H	27.75	28.51	28.21	28.96	29.42	17.26	18.02	17.72	18.46	18.93
	12H	27.90	28.58	28.38	29.06	29.53	17.38	18.05	17.86	18.53	19.00
8H	4H	27.01	27.77	27.48	28.22	28.68	17.33	18.10	17.80	18.54	19.01
	6H	27.47	28.10	27.97	28.59	29.07	17.96	18.59	18.45	19.08	19.56
	8H	27.67	28.24	28.19	28.75	29.23	18.16	18.72	18.67	19.23	19.72
	12H	27.85	28.36	28.37	28.85	29.41	18.31	18.82	18.82	19.31	19.87
12H	4H	26.98	27.66	27.46	28.14	28.61	17.41	18.08	17.89	18.56	19.03
	6H	27.42	27.99	27.94	28.50	28.99	18.05	18.62	18.56	19.13	19.61
	8H	27.65	28.15	28.16	28.64	29.21	18.30	18.80	18.81	19.30	19.86