

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: P894537

Luminaire Tested: 8TMB-12SL-RFLW-UNV-L930

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894537
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-L930
Description: 12000 Lumen 8FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 90CRI, 3000K
Light Source: -
Ballast/Driver: -

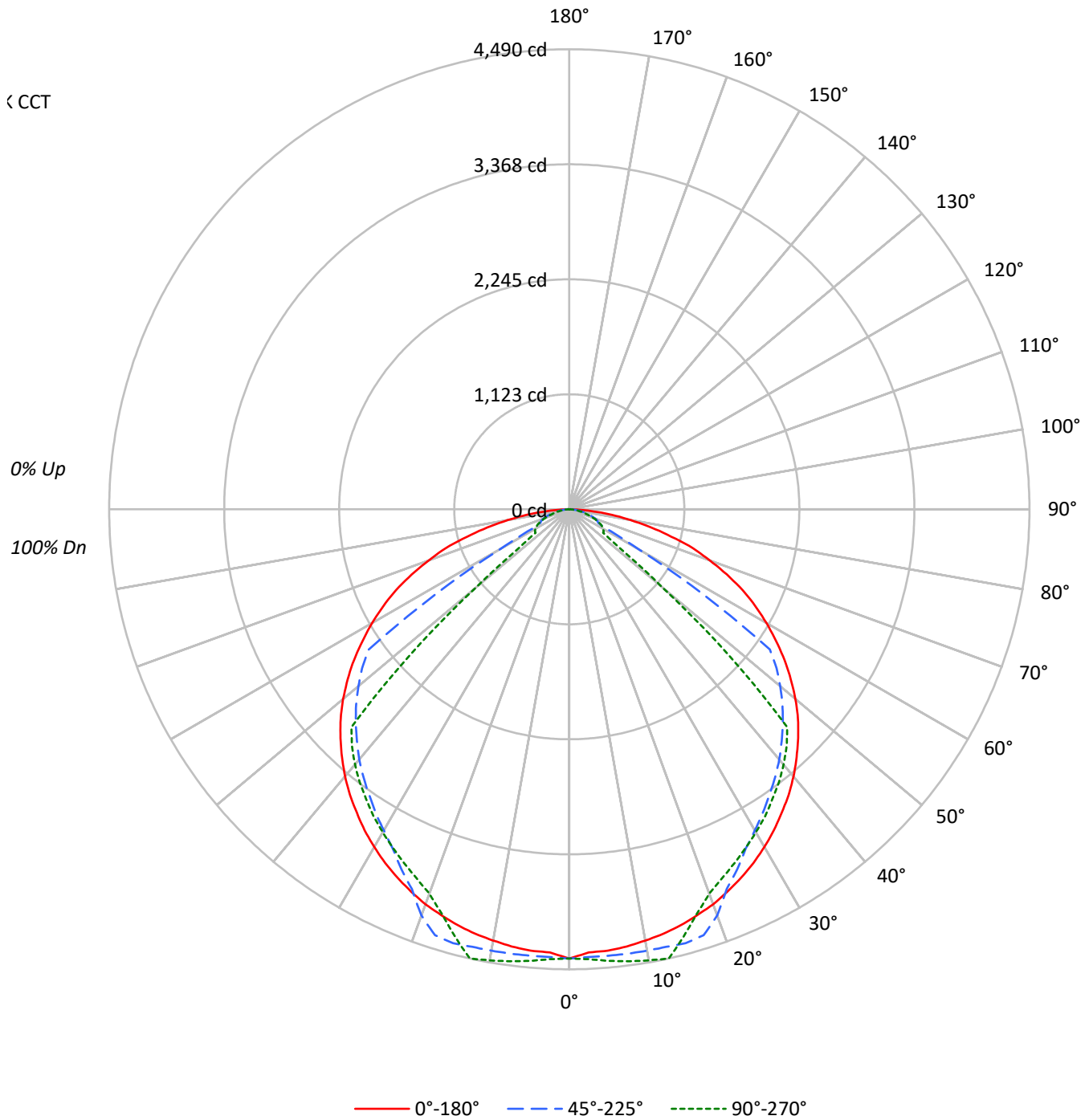
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10693.0 lumens
Efficiency: N/A
Efficacy: 120.4 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 (A_{in}): 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°	28390	28390	28390
5°	28106	28433	28759
10°	28100	28762	29390
15°	28178	29391	28919
20°	28272	29068	27509
25°	28343	27696	27229
30°	28458	27067	27218
35°	28577	26907	27305
40°	28773	26945	27498
45°	28914	26981	27533
50°	29022	27047	11902
55°	28949	26962	4541
60°	28781	10288	4949
65°	28581	4776	5084
70°	27606	5140	4760
75°	25787	4906	4151
80°	22688	4311	3561
85°	17928	3737	2987

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 29022 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	418.7	3.9
10°-20°	1215.7	11.4
20°-30°	1814.0	17.0
30°-40°	2198.7	20.6
40°-50°	2251.4	21.1
50°-60°	1497.2	14.0
60°-70°	853.3	8.0
70°-80°	358.5	3.4
80°-90°	85.5	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°	3448.4	32.2
0°-40°	5647.1	52.8
0°-60°	9395.7	87.9
0°-90°	10693.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10693.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4384	4384	4384	4384	4384	
5°	4324	4409	4374	4384	4424	411
15°	4203	4319	4384	4369	4314	1187
25°	3967	4158	3876	3791	3811	1830
35°	3615	3680	3404	3419	3454	2264
45°	3157	2966	2946	2982	3007	2436
55°	2564	2348	2388	523	402	2290
65°	1865	1669	312	332	332	1835
75°	1031	216	196	171	166	1094
85°	241	60	50	40	40	289
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4384.2	4384.2	4384.2	4384.2	4384.2
2.5°	4328.9	4419.4	4374.2	4379.2	4394.3
5°	4323.9	4409.4	4374.2	4384.2	4424.4
7.5°	4303.8	4394.3	4374.2	4404.3	4449.6
10°	4273.6	4379.2	4374.2	4424.4	4469.7
12.5°	4243.4	4349.0	4374.2	4449.6	4489.8
15°	4203.2	4318.9	4384.2	4369.1	4313.8
17.5°	4152.9	4288.7	4359.1	4142.9	4137.9
20°	4102.7	4248.5	4218.3	4012.2	3992.0
22.5°	4037.3	4208.2	4012.2	3871.4	3896.5
25°	3966.9	4158.0	3876.4	3790.9	3811.0
27.5°	3891.5	4107.7	3730.6	3700.4	3725.6
30°	3806.0	4037.3	3620.0	3609.9	3640.1
32.5°	3715.5	3901.5	3514.4	3519.4	3554.6
35°	3615.0	3680.3	3403.8	3418.9	3454.1
37.5°	3514.4	3474.2	3298.2	3323.4	3358.5
40°	3403.8	3313.3	3187.6	3212.7	3253.0
42.5°	3283.1	3142.4	3066.9	3102.1	3137.3
45°	3157.4	2966.4	2946.3	2981.5	3006.6
47.5°	3026.7	2815.5	2820.6	2845.7	2131.8
50°	2880.9	2664.7	2684.8	1860.3	1181.5
52.5°	2725.0	2508.9	2549.1	1035.7	598.3
55°	2564.2	2348.0	2388.2	522.9	402.2
57.5°	2393.2	2187.1	1558.6	377.1	397.2
60°	2222.3	2016.1	794.4	372.1	382.1
62.5°	2046.3	1845.2	377.1	357.0	362.0
65°	1865.3	1669.2	311.7	331.8	331.8
67.5°	1664.2	1483.2	296.6	296.6	291.6
70°	1458.1	1231.8	271.5	256.4	251.4
72.5°	1267.0	472.6	236.3	211.2	206.1
75°	1030.7	216.2	196.1	170.9	165.9
77.5°	819.5	181.0	155.9	135.7	130.7
80°	608.4	140.8	115.6	100.6	95.5
82.5°	422.3	95.5	80.4	65.4	65.4
85°	241.3	60.3	50.3	40.2	40.2
87.5°	95.5	30.2	25.1	15.1	15.1
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	24.55	26.07	24.92	26.39	26.70	12.32	13.84	12.68	14.15	14.47
	3H	26.57	27.93	26.95	28.26	28.62	14.63	15.99	15.01	16.32	16.68
	4H	27.03	28.31	27.43	28.65	29.03	15.34	16.62	15.74	16.96	17.34
	6H	27.44	28.61	27.85	28.98	29.37	15.83	17.00	16.24	17.37	17.76
	8H	27.59	28.71	28.02	29.09	29.50	15.97	17.08	16.39	17.47	17.87
	12H	27.69	28.76	28.12	29.14	29.57	16.05	17.12	16.48	17.50	17.93
4H	2H	24.39	25.66	24.79	26.01	26.39	13.12	14.39	13.51	14.74	15.11
	3H	26.60	27.64	27.01	28.04	28.44	15.63	16.67	16.04	17.07	17.47
	4H	27.04	27.98	27.48	28.40	28.84	16.45	17.38	16.88	17.80	18.24
	6H	27.51	28.32	27.97	28.77	29.23	17.04	17.85	17.50	18.30	18.76
	8H	27.70	28.46	28.16	28.91	29.37	17.21	17.97	17.67	18.41	18.88
	12H	27.85	28.53	28.34	29.01	29.48	17.33	18.00	17.81	18.48	18.95
8H	4H	26.96	27.72	27.43	28.17	28.63	17.28	18.05	17.75	18.49	18.96
	6H	27.42	28.05	27.92	28.54	29.02	17.91	18.54	18.40	19.03	19.51
	8H	27.62	28.19	28.14	28.70	29.19	18.11	18.67	18.62	19.18	19.67
	12H	27.81	28.31	28.32	28.80	29.36	18.26	18.77	18.77	19.26	19.82
12H	4H	26.93	27.61	27.41	28.09	28.56	17.36	18.03	17.84	18.51	18.98
	6H	27.37	27.94	27.89	28.45	28.94	18.00	18.57	18.51	19.08	19.56
	8H	27.60	28.10	28.11	28.59	29.16	18.25	18.75	18.76	19.25	19.81