

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: P894399

Luminaire Tested: 8TMB-10SL-LVR-UNV-L840

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894399
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-8)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-10SL-LVR-UNV-L840
Description: 10000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER, 80CRI, 4000K CCT
Light Source: -
Ballast/Driver: -

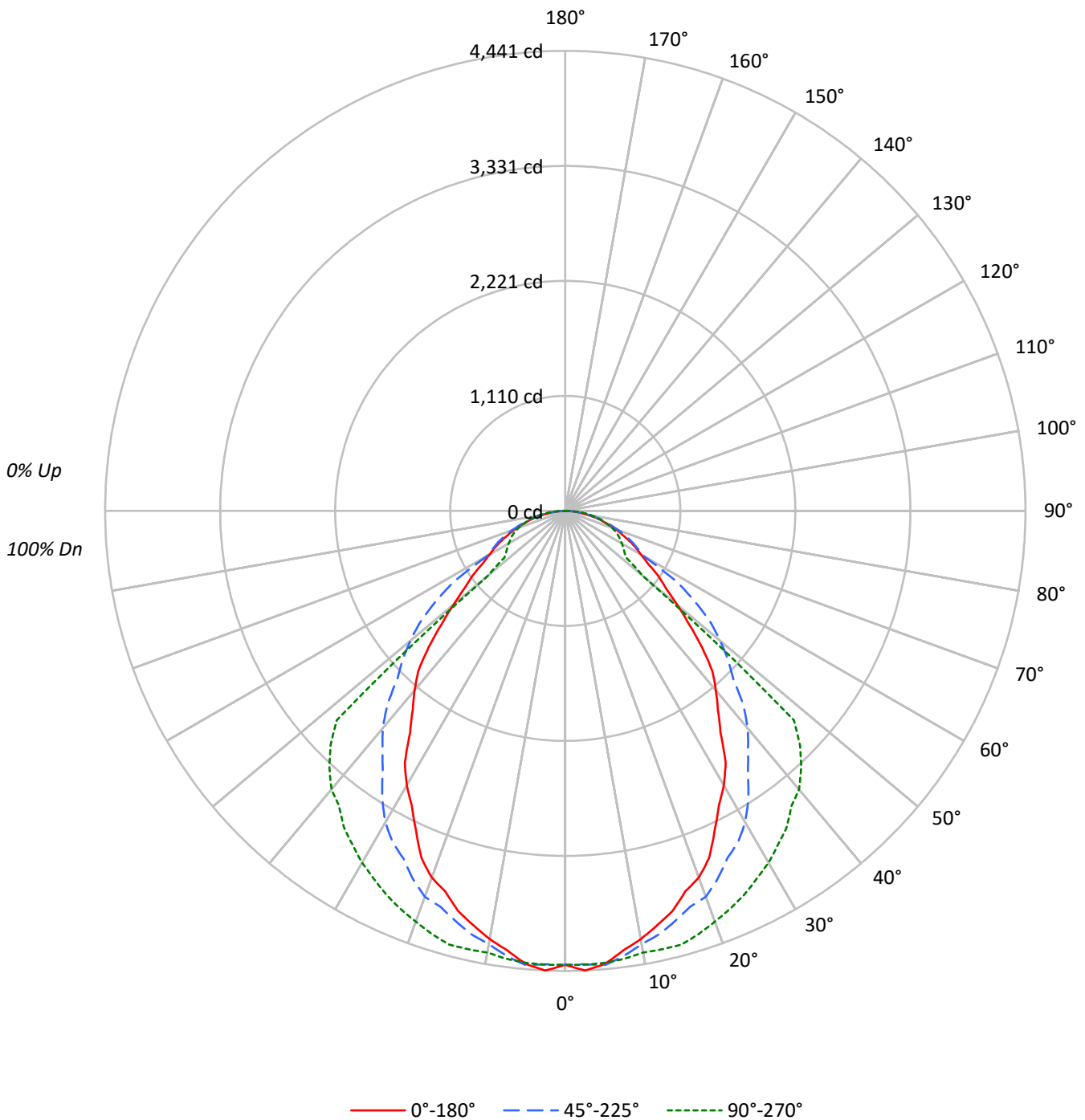
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9353.0 lumens
Efficiency: N/A
Efficacy: 133.6 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.32 / 1.27
Luminous Opening: Rectangular (W 0.38' x L: 7.98' x H: 0')
CIE Type: Direct

Input Watts (W): 70
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 5.63
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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	100	
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87	87	
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	75	75	
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65	65	
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	57	57	
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	57	52	50	50	
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	45	45	
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40	40	
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	36	36	
9	61	48	40	35	59	48	40	35	47	40	35	45	39	35	44	39	35	33	33	
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30	30	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15551	15551	15551
5°	15634	15674	15594
10°	15121	15299	15597
15°	14685	15055	15919
20°	14225	14968	15932
25°	13346	14486	16002
30°	12537	14224	16067
35°	11305	13302	16143
40°	10471	12690	16257
45°	9367	11501	16073
50°	7772	10774	5400
55°	6771	9457	4320
60°	5989	6163	4479
65°	5694	5995	4754
70°	5341	5666	5016
75°	4971	5340	5156
80°	4528	5031	5396
85°	4010	4283	5834

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 16073 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	415.7	4.4
10°-20°	1169.5	12.5
20°-30°	1720.3	18.4
30°-40°	1967.4	21.0
40°-50°	1862.9	19.9
50°-60°	1026.4	11.0
60°-70°	659.0	7.0
70°-80°	406.7	4.3
80°-90°	125.2	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°	3305.5	35.3
0°-40°	5272.9	56.4
0°-60°	8162.1	87.3
0°-90°	9353.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9353.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4383	4383	4383	4383	4383	
5°	4390	4425	4401	4401	4378	412
15°	3998	4047	4099	4313	4334	1122
25°	3409	3561	3700	3942	4087	1570
35°	2610	2834	3071	3517	3727	1650
45°	1867	2044	2292	2941	3203	1428
55°	1095	1148	1529	788	698	979
65°	678	701	714	636	566	671
75°	363	369	390	410	376	386
85°	98	98	105	121	143	110
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4382.8	4382.8	4382.8	4382.8	4382.8
2.5°	4441.0	4452.2	4380.6	4378.4	4385.1
5°	4389.5	4425.4	4400.7	4400.7	4378.4
7.5°	4279.9	4340.3	4333.6	4385.1	4360.4
10°	4197.0	4246.3	4246.3	4380.6	4329.1
12.5°	4098.6	4154.5	4185.9	4326.9	4333.6
15°	3997.8	4047.1	4098.6	4313.4	4333.6
17.5°	3852.3	3941.9	4006.8	4217.2	4282.1
20°	3767.3	3821.0	3964.2	4134.4	4219.4
22.5°	3626.2	3704.6	3843.4	4033.6	4159.0
25°	3409.1	3561.3	3700.1	3941.9	4087.4
27.5°	3207.7	3321.8	3608.3	3863.5	4002.3
30°	3059.9	3149.5	3471.8	3749.4	3921.7
32.5°	2880.8	3026.3	3288.2	3637.4	3821.0
35°	2610.0	2833.8	3071.1	3516.6	3727.0
37.5°	2419.7	2574.2	2896.5	3391.2	3586.0
40°	2260.8	2401.8	2739.8	3234.5	3509.8
42.5°	2101.9	2216.0	2542.8	3118.1	3368.8
45°	1866.8	2043.7	2292.1	2941.3	3203.2
47.5°	1620.6	1808.6	2128.7	2791.3	2992.8
50°	1408.0	1557.9	1951.9	2493.6	978.2
52.5°	1222.2	1361.0	1763.9	902.1	738.7
55°	1094.6	1148.3	1528.8	787.9	698.4
57.5°	942.4	1029.7	1282.6	749.9	662.6
60°	843.9	881.9	868.5	711.8	631.2
62.5°	765.5	792.4	787.9	673.8	595.4
65°	678.2	700.6	714.1	635.7	566.3
67.5°	590.9	611.1	631.2	588.7	526.0
70°	514.8	528.3	546.2	532.7	483.5
72.5°	436.5	452.2	463.4	474.5	427.5
75°	362.6	369.3	389.5	409.6	376.1
77.5°	295.5	302.2	315.6	338.0	320.1
80°	221.6	228.3	246.2	264.1	264.1
82.5°	156.7	161.2	172.4	197.0	208.2
85°	98.5	98.5	105.2	120.9	143.3
87.5°	38.1	38.1	44.8	53.7	71.6
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	17.48	18.97	17.85	19.28	19.59	15.29	16.77	15.65	17.08	17.40
	3H	19.01	20.34	19.39	20.67	21.03	17.62	18.94	18.00	19.27	19.63
	4H	19.60	20.85	20.00	21.19	21.57	18.57	19.81	18.97	20.16	20.54
	6H	20.06	21.21	20.47	21.57	21.97	19.35	20.50	19.76	20.87	21.26
	8H	20.20	21.30	20.63	21.69	22.09	19.66	20.75	20.09	21.14	21.55
	12H	20.30	21.35	20.73	21.73	22.16	19.91	20.96	20.34	21.34	21.77
4H	2H	18.03	19.28	18.44	19.63	20.01	16.39	17.63	16.79	17.98	18.36
	3H	19.81	20.84	20.22	21.24	21.64	18.84	19.87	19.25	20.27	20.67
	4H	20.53	21.45	20.96	21.87	22.31	19.90	20.83	20.34	21.24	21.68
	6H	21.11	21.92	21.57	22.36	22.82	20.79	21.60	21.25	22.04	22.50
	8H	21.30	22.05	21.77	22.50	22.97	21.14	21.89	21.61	22.34	22.81
	12H	21.44	22.11	21.92	22.59	23.06	21.43	22.10	21.91	22.58	23.05
8H	4H	20.83	21.59	21.30	22.03	22.50	20.29	21.04	20.75	21.49	21.95
	6H	21.55	22.17	22.04	22.66	23.14	21.32	21.95	21.82	22.44	22.92
	8H	21.81	22.37	22.32	22.88	23.37	21.77	22.33	22.28	22.84	23.33
	12H	22.02	22.51	22.53	23.01	23.57	22.15	22.65	22.66	23.15	23.71
12H	4H	20.87	21.54	21.35	22.02	22.49	20.32	21.00	20.81	21.48	21.95
	6H	21.61	22.17	22.12	22.68	23.17	21.39	21.95	21.90	22.46	22.95
	8H	21.93	22.43	22.44	22.92	23.49	21.90	22.40	22.41	22.89	23.45