

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: P894419

Luminaire Tested: 8TMB-10SL-LVRF-UNV-L940

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894419
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-7)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-10SL-LVRF-UNV-L940
Description: 10000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 90CRI, 4000K (C)
Light Source: -
Ballast/Driver: -

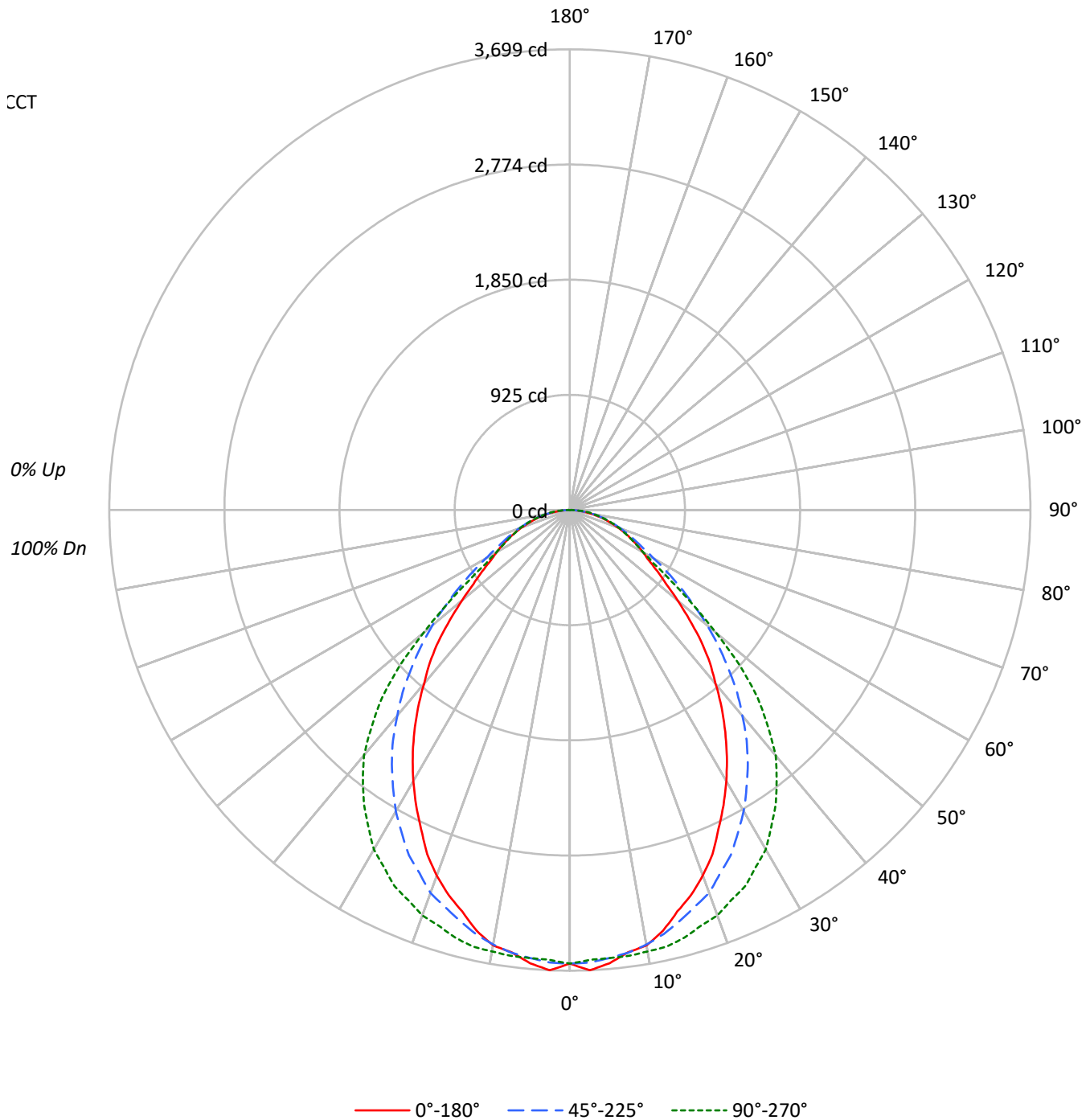
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7569.0 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.27 / 1.23
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 (Ain): 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	70	80	74	69	77	72	68	75	71	67	65	65	
4	87	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59	57	57	
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	56	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	44	39	49	43	38	48	42	38	36	36	
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	33	33	
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30	30	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12922	12922	12922
5°	13012	12863	12863
10°	12787	12766	12964
15°	12257	12543	13057
20°	11792	12357	13079
25°	11062	11974	13049
30°	10296	11445	12896
35°	9425	10795	12485
40°	8439	9982	11912
45°	7488	9037	10710
50°	6230	7955	8447
55°	5307	6701	6139
60°	4811	5537	4852
65°	4531	4849	4516
70°	4264	4499	4401
75°	3973	4284	4206
80°	3637	3948	4064
85°	3159	3469	4547

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 10710 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.8	4.6
10°-20°	970.2	12.8
20°-30°	1409.0	18.6
30°-40°	1569.0	20.7
40°-50°	1386.1	18.3
50°-60°	909.6	12.0
60°-70°	557.0	7.4
70°-80°	324.1	4.3
80°-90°	99.3	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°	2724.0	36.0
0°-40°	4293.0	56.7
0°-60°	6588.7	87.0
0°-90°	7569.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7569.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3642	3642	3642	3642	3642	
5°	3653	3655	3612	3648	3612	344
15°	3337	3375	3415	3549	3555	941
25°	2826	2894	3059	3254	3333	1300
35°	2176	2293	2492	2756	2882	1357
45°	1492	1583	1801	2044	2134	1142
55°	858	918	1083	1074	992	778
65°	540	549	578	561	538	537
75°	290	294	312	318	307	307
85°	78	81	85	97	112	88
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3641.9	3641.9	3641.9	3641.9	3641.9
2.5°	3698.7	3653.2	3636.2	3653.2	3615.3
5°	3653.2	3655.1	3611.6	3647.5	3611.6
7.5°	3581.3	3605.9	3585.0	3640.0	3611.6
10°	3549.1	3551.0	3543.4	3600.2	3598.3
12.5°	3460.0	3465.7	3486.6	3571.8	3590.7
15°	3336.9	3374.8	3414.6	3549.1	3554.7
17.5°	3240.4	3285.8	3338.8	3482.8	3499.8
20°	3122.9	3141.9	3272.6	3399.4	3463.8
22.5°	2992.3	3028.3	3155.1	3325.6	3390.0
25°	2825.6	2893.8	3058.6	3253.6	3333.2
27.5°	2672.2	2751.8	2922.2	3140.0	3232.8
30°	2513.1	2604.0	2793.4	3007.4	3147.6
32.5°	2348.4	2462.0	2641.9	2888.1	3011.2
35°	2176.0	2293.4	2492.3	2755.5	2882.4
37.5°	2003.7	2117.3	2333.2	2615.4	2729.0
40°	1821.9	1933.6	2155.2	2441.2	2571.8
42.5°	1664.7	1761.3	1988.5	2232.8	2354.0
45°	1492.3	1583.3	1801.0	2043.5	2134.4
47.5°	1303.0	1409.0	1621.1	1820.0	1856.0
50°	1128.7	1238.6	1441.2	1556.7	1530.2
52.5°	975.3	1068.1	1253.7	1303.0	1240.5
55°	857.9	918.5	1083.3	1073.8	992.4
57.5°	750.0	787.8	928.0	875.0	797.3
60°	678.0	695.0	780.3	731.0	683.7
62.5°	609.8	617.4	662.8	636.3	600.3
65°	539.7	549.2	577.6	560.6	537.9
67.5°	475.4	479.1	505.7	501.9	473.5
70°	411.0	416.6	433.7	441.3	424.2
72.5°	348.5	354.1	371.2	378.8	363.6
75°	289.8	293.5	312.5	318.2	306.8
77.5°	232.9	240.5	251.9	261.4	248.1
80°	178.0	181.8	193.2	204.5	198.9
82.5°	125.0	130.7	138.3	153.4	157.2
85°	77.6	81.4	85.2	96.6	111.7
87.5°	30.3	32.2	37.9	41.7	54.9
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	16.42	17.90	16.78	18.21	18.53	17.07	18.55	17.44	18.87	19.18
	3H	18.02	19.35	18.40	19.68	20.04	18.51	19.83	18.89	20.16	20.52
	4H	18.64	19.88	19.04	20.23	20.61	19.11	20.36	19.51	20.70	21.08
	6H	19.11	20.26	19.52	20.62	21.01	19.60	20.75	20.01	21.11	21.51
	8H	19.26	20.35	19.69	20.74	21.14	19.80	20.89	20.22	21.28	21.68
	12H	19.36	20.40	19.79	20.79	21.22	19.96	21.01	20.40	21.39	21.82
4H	2H	17.04	18.28	17.44	18.63	19.01	17.57	18.81	17.97	19.16	19.54
	3H	18.86	19.89	19.27	20.29	20.69	19.26	20.29	19.67	20.69	21.09
	4H	19.60	20.53	20.03	20.94	21.38	20.02	20.94	20.45	21.36	21.80
	6H	20.20	21.00	20.66	21.45	21.91	20.65	21.46	21.11	21.90	22.36
	8H	20.40	21.15	20.86	21.59	22.06	20.91	21.66	21.37	22.10	22.57
	12H	20.54	21.21	21.02	21.69	22.16	21.13	21.80	21.61	22.28	22.75
8H	4H	19.92	20.67	20.38	21.12	21.58	20.29	21.04	20.75	21.48	21.95
	6H	20.64	21.27	21.14	21.76	22.24	21.06	21.68	21.56	22.18	22.65
	8H	20.92	21.48	21.43	21.99	22.48	21.41	21.97	21.92	22.48	22.97
	12H	21.13	21.63	21.64	22.12	22.69	21.72	22.22	22.23	22.71	23.28
12H	4H	19.95	20.63	20.44	21.11	21.58	20.31	20.98	20.79	21.46	21.93
	6H	20.71	21.27	21.22	21.78	22.27	21.11	21.67	21.62	22.18	22.67
	8H	21.04	21.54	21.55	22.03	22.60	21.51	22.01	22.02	22.50	23.07