

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: P894420

Luminaire Tested: 8TMB-10SL-LVRF-UNV-L950

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894420
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-L950
Description: 10000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 90CRI, 5000K (C)
Light Source: -
Ballast/Driver: -

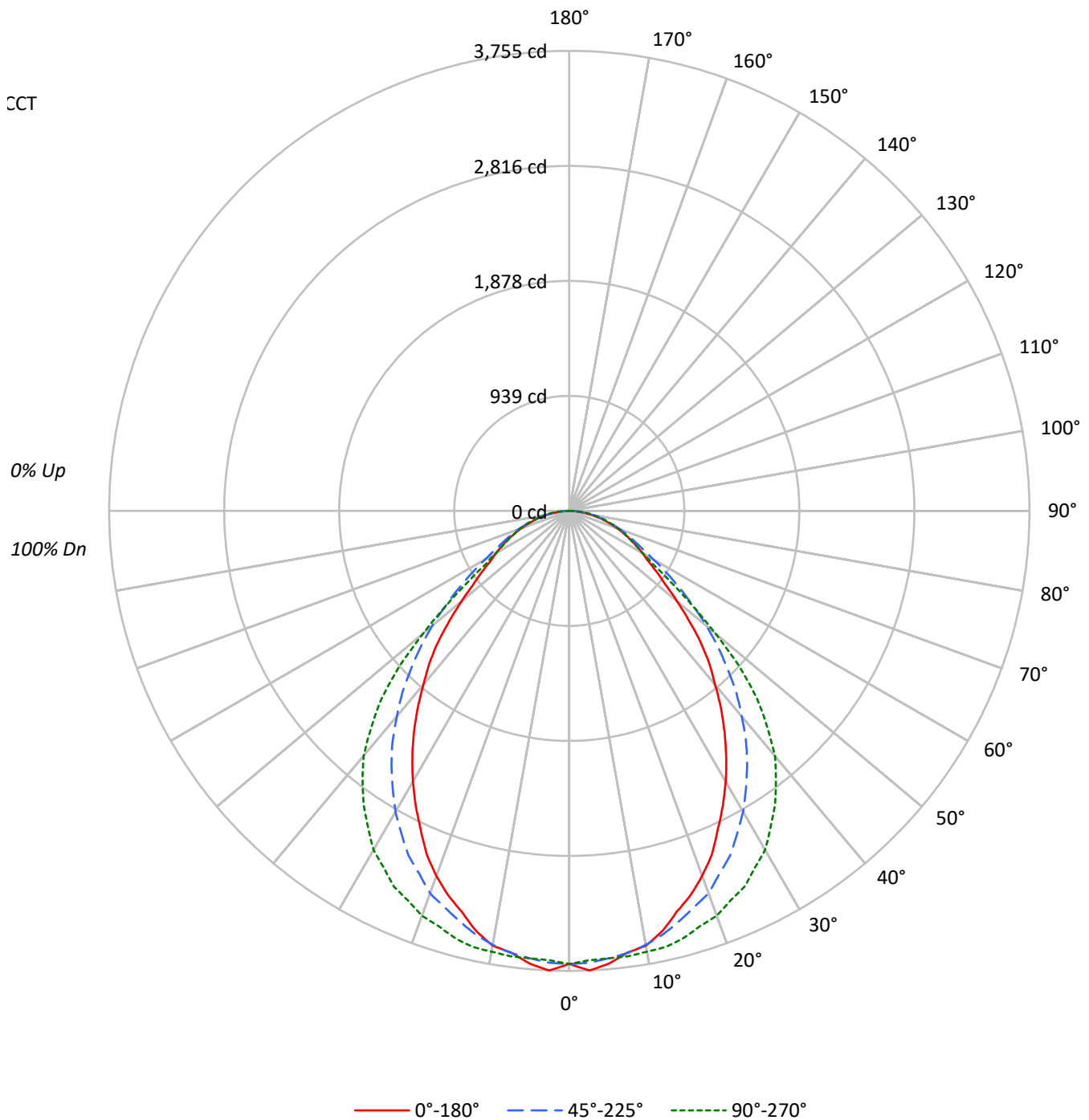
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7684.0 lumens
Efficiency: N/A
Efficacy: 109.8 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 (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	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	100	97	100	97	94	96	93	91	92	90	89	89	89	89	87
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	77	77	77	75
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	71	67	67	67	67	65
4	87	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59	59	59	59	57
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	56	52	52	52	52	50
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	47	47	47	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	42	42	42	40
8	65	52	44	39	63	52	44	39	50	44	39	49	43	38	48	42	38	38	38	38	36
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13118	13118	13118
5°	13209	13059	13059
10°	12981	12960	13161
15°	12444	12733	13256
20°	11971	12544	13278
25°	11230	12156	13247
30°	10453	11619	13092
35°	9569	10959	12675
40°	8567	10134	12093
45°	7602	9175	10873
50°	6325	8076	8575
55°	5387	6803	6232
60°	4884	5621	4926
65°	4600	4923	4584
70°	4328	4568	4468
75°	4033	4348	4270
80°	3692	4007	4125
85°	3208	3521	4617

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 10873 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.0	4.6
10°-20°	985.0	12.8
20°-30°	1430.4	18.6
30°-40°	1592.8	20.7
40°-50°	1407.2	18.3
50°-60°	923.4	12.0
60°-70°	565.4	7.4
70°-80°	329.0	4.3
80°-90°	100.8	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°	2765.4	36.0
0°-40°	4358.2	56.7
0°-60°	6688.8	87.0
0°-90°	7684.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7684.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3697	3697	3697	3697	3697	
5°	3709	3711	3666	3703	3666	350
15°	3388	3426	3466	3603	3609	956
25°	2868	2938	3105	3303	3384	1320
35°	2209	2328	2530	2797	2926	1378
45°	1515	1607	1828	2074	2167	1159
55°	871	932	1100	1090	1008	790
65°	548	558	586	569	546	545
75°	294	298	317	323	312	312
85°	79	83	86	98	113	89
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3697.2	3697.2	3697.2	3697.2	3697.2
2.5°	3754.9	3708.7	3691.4	3708.7	3670.3
5°	3708.7	3710.6	3666.4	3703.0	3666.4
7.5°	3635.7	3660.7	3639.5	3695.3	3666.4
10°	3603.0	3604.9	3597.2	3654.9	3653.0
12.5°	3512.6	3518.4	3539.5	3626.1	3645.3
15°	3387.6	3426.1	3466.5	3603.0	3608.7
17.5°	3289.6	3335.7	3389.6	3535.7	3553.0
20°	3170.4	3189.6	3322.3	3451.1	3516.5
22.5°	3037.7	3074.3	3203.1	3376.1	3441.5
25°	2868.5	2937.8	3105.0	3303.1	3383.8
27.5°	2712.8	2793.6	2966.6	3187.7	3281.9
30°	2551.3	2643.6	2835.9	3053.1	3195.4
32.5°	2384.0	2499.4	2682.0	2932.0	3057.0
35°	2209.1	2328.3	2530.2	2797.4	2926.2
37.5°	2034.1	2149.5	2368.7	2655.1	2770.5
40°	1849.6	1963.0	2187.9	2478.3	2610.9
42.5°	1690.0	1788.0	2018.7	2266.8	2389.8
45°	1515.0	1607.3	1828.4	2074.5	2166.8
47.5°	1322.8	1430.4	1645.8	1847.6	1884.2
50°	1145.9	1257.4	1463.1	1580.4	1553.5
52.5°	990.1	1084.4	1272.8	1322.8	1259.3
55°	870.9	932.5	1099.7	1090.1	1007.5
57.5°	761.4	799.8	942.1	888.2	809.4
60°	688.3	705.6	792.1	742.1	694.1
62.5°	619.1	626.8	672.9	646.0	609.5
65°	547.9	557.6	586.4	569.1	546.0
67.5°	482.6	486.4	513.3	509.5	480.7
70°	417.2	423.0	440.3	448.0	430.7
72.5°	353.8	359.5	376.8	384.5	369.1
75°	294.2	298.0	317.2	323.0	311.5
77.5°	236.5	244.2	255.7	265.3	251.9
80°	180.7	184.6	196.1	207.6	201.9
82.5°	126.9	132.7	140.4	155.7	159.6
85°	78.8	82.7	86.5	98.1	113.4
87.5°	30.8	32.7	38.5	42.3	55.8
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	16.47	17.95	16.84	18.27	18.58	17.12	18.61	17.49	18.92	19.23
	3H	18.07	19.40	18.45	19.73	20.09	18.56	19.89	18.94	20.21	20.58
	4H	18.69	19.93	19.09	20.28	20.66	19.17	20.41	19.57	20.76	21.14
	6H	19.16	20.31	19.57	20.68	21.07	19.65	20.80	20.06	21.17	21.56
	8H	19.31	20.40	19.74	20.79	21.20	19.85	20.94	20.28	21.33	21.73
	12H	19.41	20.46	19.84	20.84	21.27	20.02	21.06	20.45	21.44	21.87
4H	2H	17.09	18.34	17.50	18.69	19.07	17.62	18.86	18.02	19.21	19.59
	3H	18.91	19.94	19.33	20.34	20.75	19.32	20.34	19.73	20.74	21.15
	4H	19.65	20.58	20.09	21.00	21.43	20.07	20.99	20.50	21.41	21.85
	6H	20.25	21.06	20.71	21.50	21.96	20.70	21.51	21.16	21.95	22.41
	8H	20.45	21.20	20.91	21.65	22.11	20.96	21.71	21.42	22.16	22.62
	12H	20.59	21.26	21.07	21.74	22.21	21.18	21.86	21.67	22.33	22.81
8H	4H	19.97	20.72	20.44	21.17	21.64	20.34	21.09	20.80	21.54	22.00
	6H	20.70	21.32	21.19	21.81	22.29	21.11	21.74	21.61	22.23	22.71
	8H	20.97	21.53	21.48	22.04	22.53	21.46	22.02	21.97	22.53	23.02
	12H	21.19	21.68	21.70	22.18	22.74	21.78	22.27	22.29	22.77	23.33
12H	4H	20.01	20.68	20.49	21.16	21.63	20.36	21.03	20.84	21.51	21.98
	6H	20.76	21.32	21.28	21.83	22.32	21.16	21.72	21.67	22.23	22.72
	8H	21.09	21.59	21.60	22.08	22.65	21.56	22.06	22.08	22.55	23.12