

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: P894409

Luminaire Tested: 8TMB-10SL-LVRA-UNV-L930

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894409
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-26)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-10SL-LVRA-UNV-L930
Description: 10000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 90CRI, 3000K CCT
Light Source: -
Ballast/Driver: -

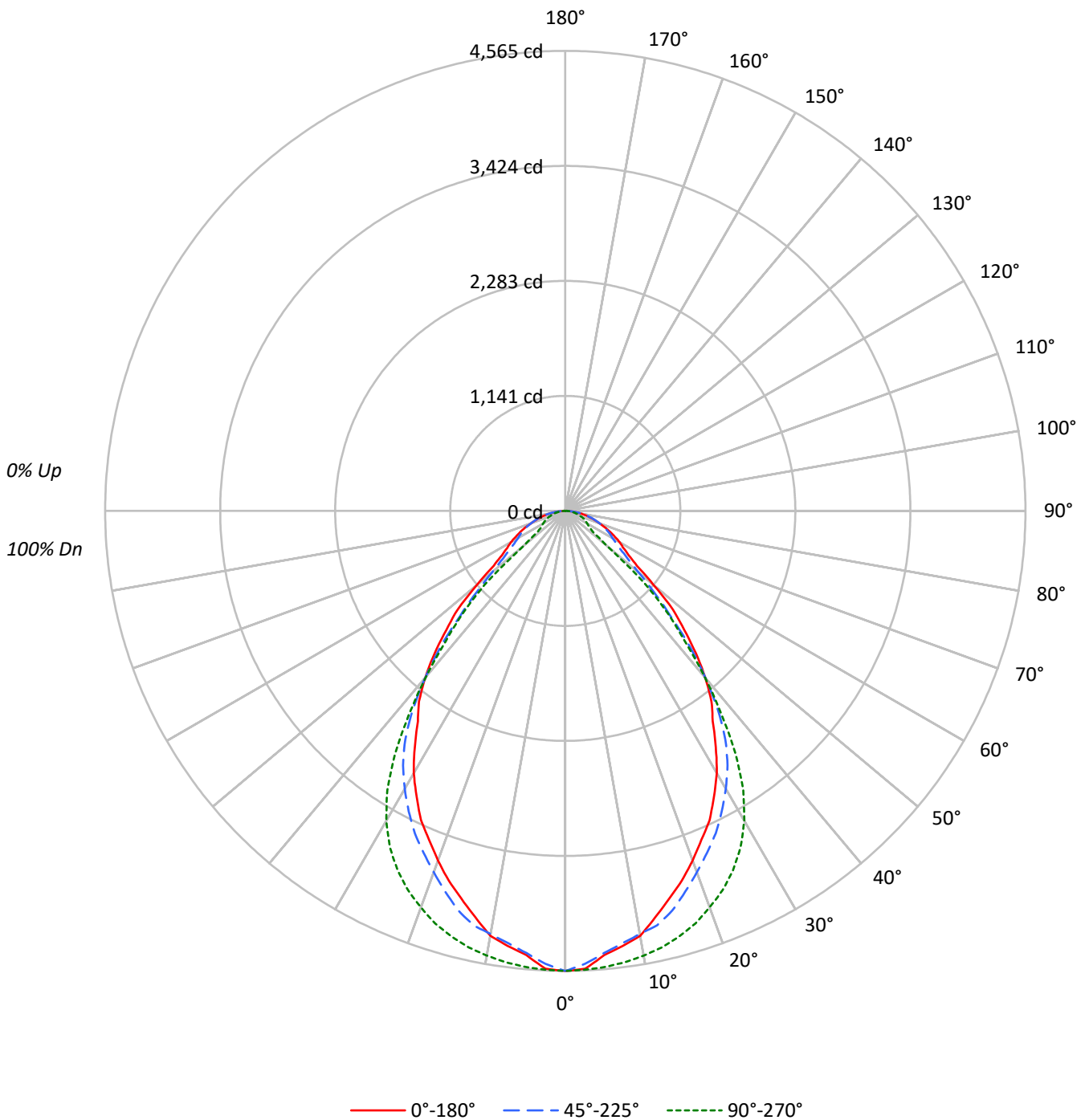
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7409.0 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.16 / 1.12
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

TEST NUMBER: P894409
CATALOG NUMBER: 8TMB-10SL-LVRA-UNV-L930

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	100	100	100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88	88	88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78	78	78
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69	69	69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62	62	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55	55	55
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	50	50	50
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	45	45	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41	41	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38	38	38
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	35	35	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16198	16198	16198
5°	15761	15690	16180
10°	15426	15358	16142
15°	14630	15079	16052
20°	13936	14407	15807
25°	13257	13823	15403
30°	12316	13049	14543
35°	11044	11992	12756
40°	10006	10027	9973
45°	8366	7409	7226
50°	6319	5215	2955
55°	4753	4171	1863
60°	4417	3841	1795
65°	4110	3833	1797
70°	3760	3760	1770
75°	3564	3662	1710
80°	3294	3461	1755
85°	2874	3017	1917

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 8560 cd/sqm



TEST NUMBER: P894409
 CATALOG NUMBER: 8TMB-10SL-LVRA-UNV-L930

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	421.7	5.7
10°-20°	1161.9	15.7
20°-30°	1647.6	22.2
30°-40°	1697.4	22.9
40°-50°	1185.6	16.0
50°-60°	568.9	7.7
60°-70°	399.1	5.4
70°-80°	249.5	3.4
80°-90°	77.2	1.0
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°	3231.2	43.6
0°-40°	4928.7	66.5
0°-60°	6683.2	90.2
0°-90°	7409.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7409.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4565	4565	4565	4565	4565	
5°	4425	4419	4405	4520	4543	419
15°	3983	4012	4105	4223	4370	1122
25°	3386	3420	3531	3770	3934	1548
35°	2550	2619	2768	2826	2945	1607
45°	1667	1706	1477	1401	1440	1285
55°	768	731	674	432	301	720
65°	490	458	456	347	214	485
75°	260	256	267	231	125	274
85°	71	71	74	73	47	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4565.1	4565.1	4565.1	4565.1	4565.1
2.5°	4547.5	4533.3	4499.2	4561.6	4556.9
5°	4425.1	4419.2	4405.1	4520.4	4542.8
7.5°	4355.7	4343.9	4327.4	4454.5	4516.9
10°	4281.6	4295.7	4262.7	4379.2	4480.4
12.5°	4128.6	4166.3	4211.0	4301.6	4435.7
15°	3982.7	4012.1	4105.1	4222.7	4369.8
17.5°	3846.2	3880.3	3960.4	4136.8	4293.3
20°	3690.9	3738.0	3815.6	4041.5	4186.3
22.5°	3530.9	3574.4	3672.1	3914.5	4075.7
25°	3386.2	3420.3	3530.9	3769.7	3934.5
27.5°	3194.4	3257.9	3362.7	3593.3	3766.2
30°	3006.1	3060.3	3185.0	3379.1	3549.7
32.5°	2779.1	2857.9	2995.6	3143.8	3286.2
35°	2549.6	2619.1	2768.5	2826.1	2945.0
37.5°	2382.6	2401.4	2486.1	2479.0	2546.1
40°	2160.2	2197.8	2164.9	2076.7	2153.1
42.5°	1920.2	1964.9	1831.9	1729.6	1756.6
45°	1667.2	1706.0	1476.6	1401.3	1440.1
47.5°	1448.4	1444.8	1190.7	1140.1	1086.0
50°	1144.8	1182.5	944.8	850.7	535.3
52.5°	894.2	908.3	778.9	543.6	351.8
55°	768.3	730.7	674.2	431.8	301.2
57.5°	682.4	635.4	597.7	401.2	275.3
60°	622.4	569.5	541.2	381.2	253.0
62.5°	554.2	513.0	502.4	363.6	233.0
65°	489.5	457.7	456.5	347.1	214.1
67.5°	424.7	407.1	411.8	327.1	193.0
70°	362.4	358.9	362.4	301.2	170.6
72.5°	309.4	305.9	315.3	268.3	145.9
75°	260.0	256.5	267.1	230.6	124.7
77.5°	207.1	209.4	216.5	191.8	104.7
80°	161.2	161.2	169.4	150.6	85.9
82.5°	115.3	116.5	121.2	110.6	67.1
85°	70.6	70.6	74.1	72.9	47.1
87.5°	23.5	27.1	31.8	34.1	23.5
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	15.32	16.68	15.69	16.99	17.30	11.65	13.01	12.02	13.32	13.64
	3H	17.06	18.27	17.44	18.60	18.96	13.63	14.84	14.01	15.17	15.53
	4H	17.73	18.86	18.13	19.21	19.59	14.34	15.46	14.74	15.81	16.20
	6H	18.24	19.28	18.65	19.65	20.04	14.86	15.90	15.27	16.27	16.66
	8H	18.41	19.40	18.84	19.79	20.19	15.04	16.03	15.47	16.42	16.82
	12H	18.52	19.46	18.95	19.85	20.28	15.18	16.13	15.61	16.51	16.94
4H	2H	15.85	16.98	16.25	17.33	17.71	13.28	14.40	13.68	14.75	15.14
	3H	17.83	18.76	18.24	19.16	19.57	15.45	16.39	15.87	16.79	17.19
	4H	18.63	19.47	19.07	19.89	20.33	16.33	17.17	16.77	17.59	18.03
	6H	19.28	20.00	19.74	20.44	20.91	16.98	17.70	17.44	18.15	18.61
	8H	19.50	20.17	19.96	20.62	21.09	17.19	17.86	17.65	18.31	18.78
	12H	19.65	20.25	20.13	20.73	21.20	17.34	17.94	17.83	18.43	18.90
8H	4H	18.92	19.59	19.38	20.04	20.51	16.98	17.66	17.45	18.11	18.58
	6H	19.70	20.26	20.20	20.75	21.23	17.84	18.40	18.35	18.90	19.38
	8H	20.00	20.50	20.52	21.01	21.51	18.17	18.67	18.69	19.19	19.68
	12H	20.24	20.68	20.75	21.17	21.74	18.44	18.88	18.95	19.37	19.94
12H	4H	18.93	19.53	19.42	20.02	20.49	17.06	17.66	17.54	18.14	18.61
	6H	19.75	20.25	20.27	20.77	21.26	17.98	18.48	18.50	19.00	19.49
	8H	20.12	20.56	20.63	21.05	21.62	18.40	18.84	18.91	19.33	19.90