

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: P894402

Luminaire Tested: 8TMB-10SL-LVR-UNV-L935

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894402
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-L935
Description: 10000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER, 90CRI, 3500K CCT
Light Source: -
Ballast/Driver: -

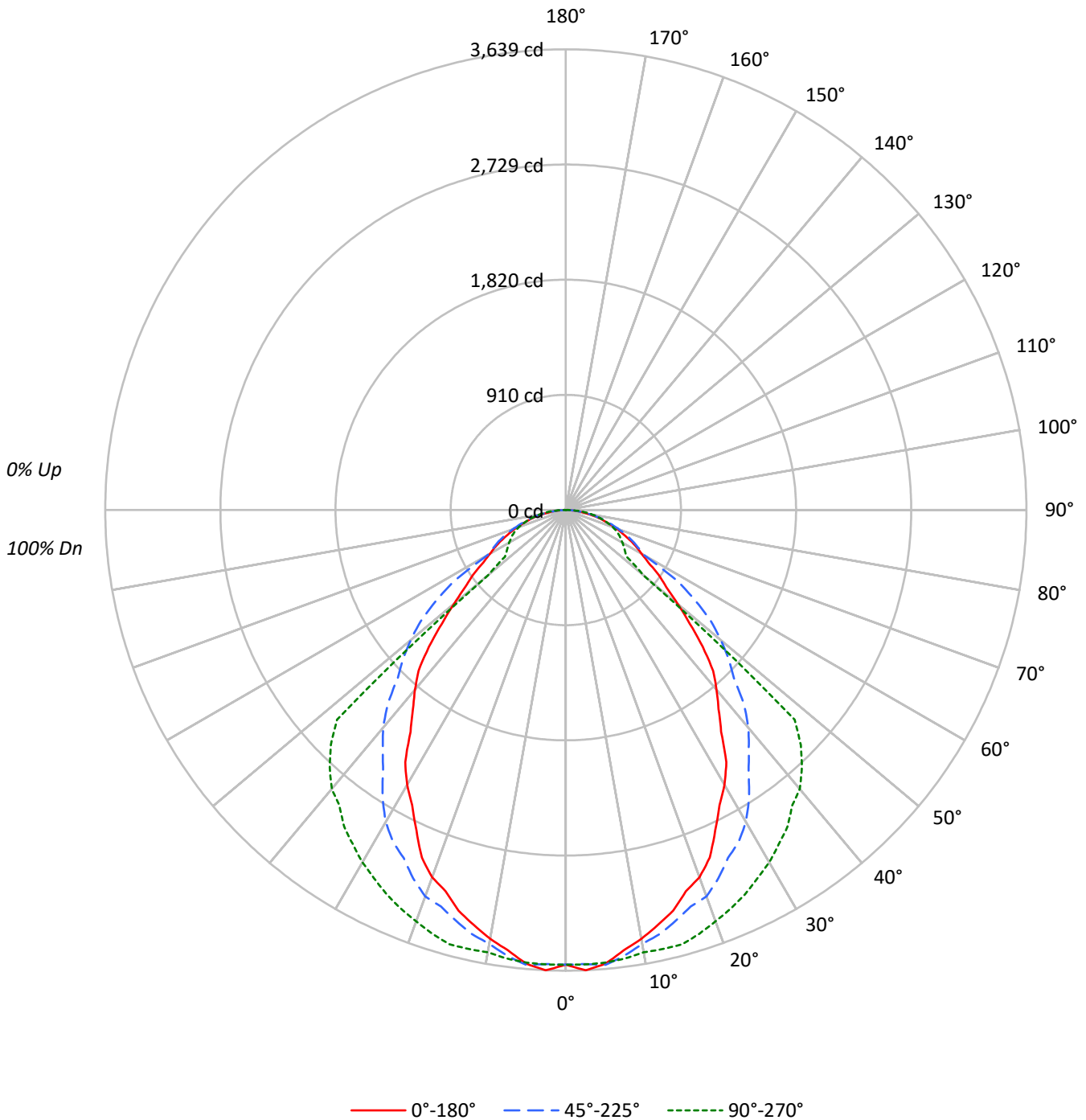
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7664.0 lumens
Efficiency: N/A
Efficacy: 109.5 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	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	71	80	74	69	77	72	68	75	71	67	67	67	67	65
4	87	76	68	62	84	74	67	61	72	66	61	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	57	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	43	39	49	43	38	48	42	38	38	38	38	36
9	61	48	40	35	59	48	40	35	47	40	35	45	39	35	44	39	35	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12743	12743	12743
5°	12811	12843	12778
10°	12391	12536	12780
15°	12033	12336	13044
20°	11656	12265	13055
25°	10936	11870	13112
30°	10273	11655	13166
35°	9264	10900	13228
40°	8580	10399	13321
45°	7676	9424	13170
50°	6368	8829	4424
55°	5548	7750	3540
60°	4907	5050	3670
65°	4666	4912	3896
70°	4377	4642	4110
75°	4073	4376	4224
80°	3711	4123	4422
85°	3285	3509	4779

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 13170 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	340.6	4.4
10°-20°	958.3	12.5
20°-30°	1409.7	18.4
30°-40°	1612.1	21.0
40°-50°	1526.5	19.9
50°-60°	841.0	11.0
60°-70°	540.0	7.0
70°-80°	333.3	4.3
80°-90°	102.6	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°	2708.6	35.3
0°-40°	4320.7	56.4
0°-60°	6688.2	87.3
0°-90°	7664.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7664.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3591	3591	3591	3591	3591	
5°	3597	3626	3606	3606	3588	337
15°	3276	3316	3358	3534	3551	920
25°	2794	2918	3032	3230	3349	1286
35°	2139	2322	2516	2882	3054	1352
45°	1530	1675	1878	2410	2625	1170
55°	897	941	1253	646	572	802
65°	556	574	585	521	464	550
75°	297	303	319	336	308	316
85°	81	81	86	99	117	90
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3591.4	3591.4	3591.4	3591.4	3591.4
2.5°	3639.1	3648.2	3589.5	3587.7	3593.2
5°	3596.9	3626.2	3606.0	3606.0	3587.7
7.5°	3507.0	3556.5	3551.0	3593.2	3573.0
10°	3439.1	3479.5	3479.5	3589.5	3547.3
12.5°	3358.4	3404.3	3430.0	3545.5	3551.0
15°	3275.9	3316.2	3358.4	3534.5	3551.0
17.5°	3156.7	3230.0	3283.2	3455.6	3508.8
20°	3087.0	3131.0	3248.4	3387.8	3457.5
22.5°	2971.4	3035.6	3149.3	3305.2	3407.9
25°	2793.5	2918.2	3031.9	3230.0	3349.2
27.5°	2628.4	2722.0	2956.7	3165.8	3279.5
30°	2507.4	2580.7	2844.8	3072.3	3213.5
32.5°	2360.6	2479.8	2694.4	2980.6	3131.0
35°	2138.7	2322.1	2516.5	2881.5	3053.9
37.5°	1982.8	2109.3	2373.5	2778.8	2938.4
40°	1852.5	1968.1	2245.1	2650.4	2876.0
42.5°	1722.3	1815.9	2083.7	2555.0	2760.5
45°	1529.7	1674.6	1878.2	2410.1	2624.7
47.5°	1328.0	1482.0	1744.3	2287.2	2452.3
50°	1153.7	1276.6	1599.4	2043.3	801.5
52.5°	1001.5	1115.2	1445.3	739.2	605.3
55°	896.9	940.9	1252.8	645.6	572.3
57.5°	772.2	843.7	1051.0	614.5	542.9
60°	691.5	722.7	711.7	583.3	517.2
62.5°	627.3	649.3	645.6	552.1	487.9
65°	555.8	574.1	585.1	520.9	464.1
67.5°	484.2	500.7	517.2	482.4	431.0
70°	421.9	432.9	447.5	436.5	396.2
72.5°	357.7	370.5	379.7	388.9	350.3
75°	297.1	302.6	319.2	335.7	308.1
77.5°	242.1	247.6	258.6	277.0	262.3
80°	181.6	187.1	201.8	216.4	216.4
82.5°	128.4	132.1	141.2	161.4	170.6
85°	80.7	80.7	86.2	99.0	117.4
87.5°	31.2	31.2	36.7	44.0	58.7
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	16.79	18.27	17.16	18.59	18.90	14.60	16.08	14.96	16.39	16.71
	3H	18.32	19.64	18.70	19.97	20.34	16.93	18.25	17.30	18.58	18.94
	4H	18.91	20.15	19.31	20.50	20.88	17.87	19.12	18.28	19.47	19.85
	6H	19.37	20.51	19.78	20.88	21.27	18.66	19.81	19.07	20.17	20.57
	8H	19.51	20.60	19.94	20.99	21.40	18.97	20.06	19.40	20.45	20.85
	12H	19.61	20.65	20.04	21.04	21.46	19.22	20.26	19.65	20.65	21.08
4H	2H	17.34	18.59	17.74	18.93	19.31	15.70	16.94	16.10	17.29	17.67
	3H	19.11	20.14	19.53	20.54	20.95	18.14	19.17	18.56	19.57	19.98
	4H	19.83	20.76	20.27	21.18	21.62	19.21	20.14	19.64	20.55	20.99
	6H	20.42	21.23	20.88	21.67	22.13	20.10	20.90	20.56	21.35	21.81
	8H	20.61	21.36	21.07	21.81	22.27	20.45	21.20	20.91	21.65	22.12
	12H	20.75	21.42	21.23	21.90	22.37	20.74	21.41	21.22	21.89	22.36
8H	4H	20.14	20.89	20.61	21.34	21.81	19.60	20.35	20.06	20.79	21.26
	6H	20.85	21.48	21.35	21.97	22.45	20.63	21.26	21.13	21.75	22.23
	8H	21.11	21.68	21.63	22.19	22.68	21.08	21.64	21.59	22.15	22.64
	12H	21.32	21.82	21.83	22.31	22.88	21.46	21.96	21.97	22.45	23.02
12H	4H	20.18	20.85	20.66	21.33	21.80	19.63	20.30	20.12	20.78	21.26
	6H	20.92	21.48	21.43	21.99	22.48	20.70	21.26	21.21	21.77	22.26
	8H	21.24	21.74	21.75	22.23	22.79	21.20	21.70	21.72	22.20	22.76