

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: P894418

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894418
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-L935
Description: 10000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 90CRI, 3500K (C)
Light Source: -
Ballast/Driver: -

Summary

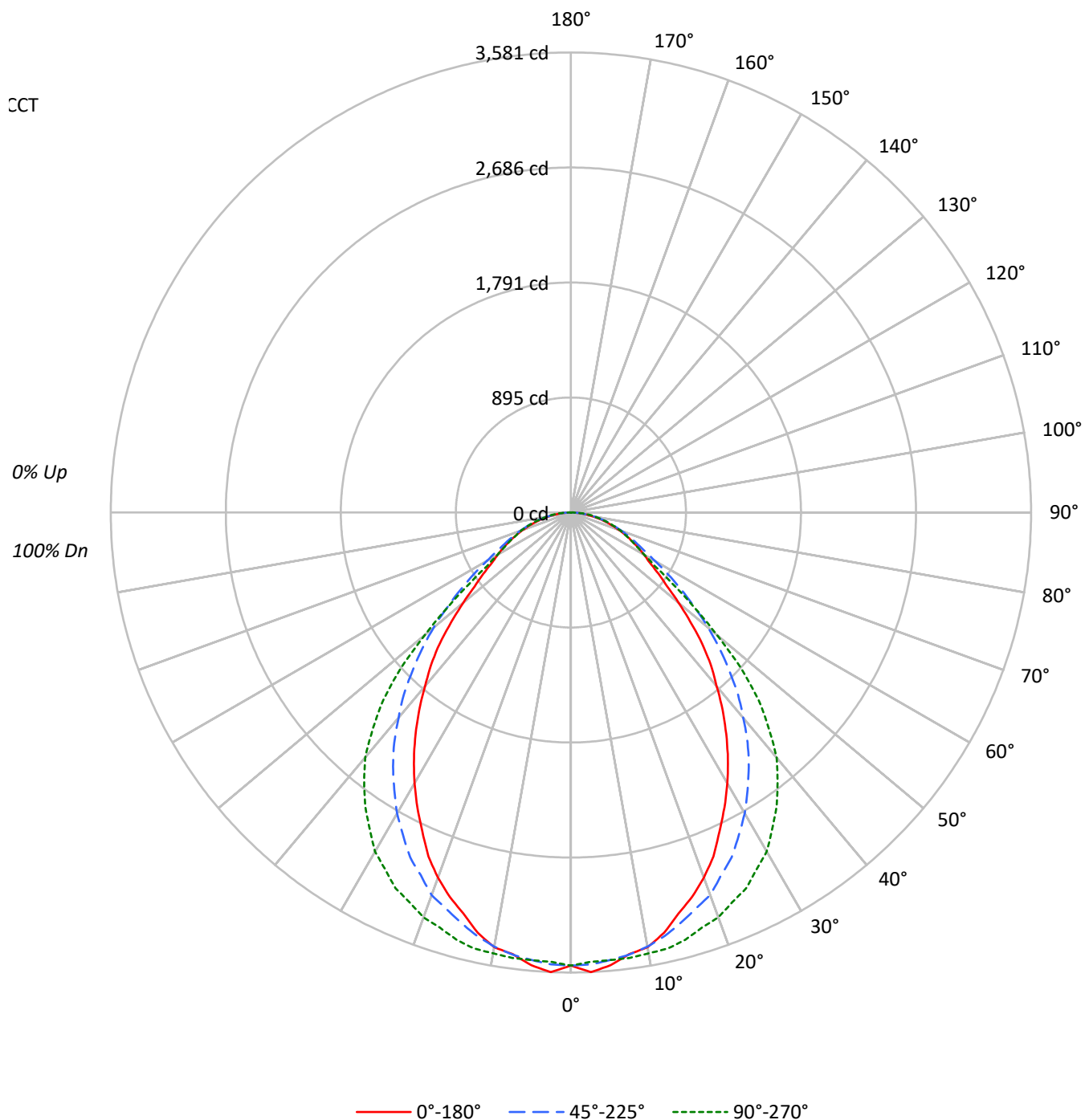
Lumens per Lamp: N/A
Luminaire Lumens: 7329.0 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.27 / 1.23
Luminous Opening: Rectangular (W 0.38' x L: 7.98' x H: 0')
CIE Type: Direct

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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	106	102	99	108	104	100	97	100	97	94		96	93	91		92
2	102	94	88	83	99	92	87	82	89	84	80		86	82	79		83
3	94	84	77	71	91	83	76	70	80	74	69		77	72	68		75
4	87	76	68	62	84	74	67	61	72	66	60		70	64	60		68
5	80	68	60	54	78	67	60	54	65	59	53		63	58	53		62
6	75	62	54	48	73	61	54	48	60	53	48		58	52	47		56
7	69	57	49	43	68	56	48	43	55	48	43		53	47	42		52
8	65	52	44	39	63	52	44	39	50	44	39		49	43	38		48
9	61	48	41	35	60	48	40	35	47	40	35		46	39	35		45
10	57	45	37	32	56	44	37	32	43	37	32		42	36	32		42

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12512	12512	12512
5°	12599	12455	12455
10°	12381	12361	12553
15°	11869	12145	12643
20°	11418	11965	12664
25°	10711	11594	12635
30°	9970	11082	12487
35°	9126	10453	12089
40°	8171	9666	11534
45°	7251	8751	10370
50°	6033	7703	8179
55°	5139	6488	5944
60°	4659	5361	4698
65°	4388	4696	4372
70°	4128	4356	4262
75°	3847	4148	4073
80°	3523	3821	3933
85°	3061	3359	4405

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 10370 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.9	4.6
10°-20°	939.5	12.8
20°-30°	1364.3	18.6
30°-40°	1519.2	20.7
40°-50°	1342.2	18.3
50°-60°	880.7	12.0
60°-70°	539.3	7.4
70°-80°	313.8	4.3
80°-90°	96.1	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°	2637.6	36.0
0°-40°	4156.8	56.7
0°-60°	6379.7	87.0
0°-90°	7329.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7329.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3526	3526	3526	3526	3526	
5°	3537	3539	3497	3532	3497	334
15°	3231	3268	3306	3436	3442	912
25°	2736	2802	2962	3150	3228	1259
35°	2107	2221	2413	2668	2791	1314
45°	1445	1533	1744	1979	2067	1105
55°	831	889	1049	1040	961	753
65°	523	532	559	543	521	520
75°	281	284	303	308	297	298
85°	75	79	82	94	108	85
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3526.4	3526.4	3526.4	3526.4	3526.4
2.5°	3581.4	3537.4	3520.9	3537.4	3500.7
5°	3537.4	3539.2	3497.0	3531.9	3497.0
7.5°	3467.7	3491.5	3471.4	3524.5	3497.0
10°	3436.5	3438.4	3431.0	3486.0	3484.2
12.5°	3350.3	3355.8	3376.0	3458.5	3476.9
15°	3231.1	3267.8	3306.3	3436.5	3442.0
17.5°	3137.6	3181.6	3233.0	3372.3	3388.8
20°	3023.9	3042.3	3168.8	3291.7	3354.0
22.5°	2897.4	2932.2	3055.1	3220.1	3282.5
25°	2736.0	2802.0	2961.6	3150.5	3227.5
27.5°	2587.5	2664.5	2829.5	3040.4	3130.3
30°	2433.4	2521.5	2704.8	2912.1	3047.8
32.5°	2273.9	2383.9	2558.1	2796.5	2915.7
35°	2107.0	2220.7	2413.3	2668.2	2791.0
37.5°	1940.2	2050.2	2259.2	2532.5	2642.5
40°	1764.1	1872.3	2086.9	2363.8	2490.3
42.5°	1611.9	1705.4	1925.5	2162.0	2279.4
45°	1445.0	1533.0	1743.9	1978.7	2066.7
47.5°	1261.6	1364.3	1569.7	1762.3	1797.1
50°	1092.9	1199.3	1395.5	1507.4	1481.7
52.5°	944.4	1034.3	1214.0	1261.6	1201.1
55°	830.7	889.4	1048.9	1039.8	960.9
57.5°	726.2	762.9	898.6	847.2	772.0
60°	656.5	673.0	755.5	707.8	662.0
62.5°	590.5	597.8	641.8	616.2	581.3
65°	522.6	531.8	559.3	542.8	520.8
67.5°	460.3	463.9	489.6	486.0	458.4
70°	397.9	403.4	419.9	427.3	410.8
72.5°	337.4	342.9	359.4	366.8	352.1
75°	280.6	284.2	302.6	308.1	297.1
77.5°	225.6	232.9	243.9	253.1	240.2
80°	172.4	176.0	187.0	198.0	192.5
82.5°	121.0	126.5	133.9	148.5	152.2
85°	75.2	78.9	82.5	93.5	108.2
87.5°	29.3	31.2	36.7	40.3	53.2
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	16.31	17.79	16.67	18.10	18.42	16.96	18.44	17.32	18.75	19.07
	3H	17.91	19.24	18.29	19.56	19.93	18.40	19.72	18.77	20.05	20.41
	4H	18.53	19.77	18.93	20.12	20.50	19.00	20.24	19.40	20.59	20.97
	6H	19.00	20.14	19.41	20.51	20.90	19.49	20.63	19.90	21.00	21.39
	8H	19.15	20.24	19.58	20.63	21.03	19.68	20.78	20.11	21.17	21.57
	12H	19.25	20.29	19.68	20.68	21.10	19.85	20.90	20.28	21.28	21.71
4H	2H	16.93	18.17	17.33	18.52	18.90	17.45	18.70	17.85	19.05	19.42
	3H	18.75	19.78	19.16	20.18	20.58	19.15	20.18	19.56	20.58	20.98
	4H	19.49	20.41	19.92	20.83	21.27	19.90	20.83	20.34	21.25	21.69
	6H	20.09	20.89	20.54	21.33	21.80	20.54	21.34	21.00	21.79	22.25
	8H	20.28	21.04	20.75	21.48	21.95	20.79	21.55	21.26	21.99	22.46
	12H	20.43	21.10	20.91	21.58	22.05	21.02	21.69	21.50	22.17	22.64
8H	4H	19.81	20.56	20.27	21.00	21.47	20.17	20.93	20.64	21.37	21.84
	6H	20.53	21.15	21.03	21.65	22.12	20.95	21.57	21.45	22.06	22.54
	8H	20.80	21.36	21.32	21.87	22.36	21.29	21.85	21.81	22.37	22.85
	12H	21.02	21.52	21.53	22.01	22.58	21.61	22.11	22.12	22.60	23.17
12H	4H	19.84	20.51	20.33	20.99	21.46	20.19	20.87	20.68	21.35	21.82
	6H	20.60	21.16	21.11	21.67	22.16	20.99	21.56	21.51	22.07	22.56
	8H	20.93	21.43	21.44	21.92	22.48	21.40	21.90	21.91	22.39	22.96