

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: P894413

Luminaire Tested: 8TMB-10SL-LVRF-UNV-L830

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894413
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-L830
Description: 10000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 80CRI, 3000K (C)
Light Source: -
Ballast/Driver: -

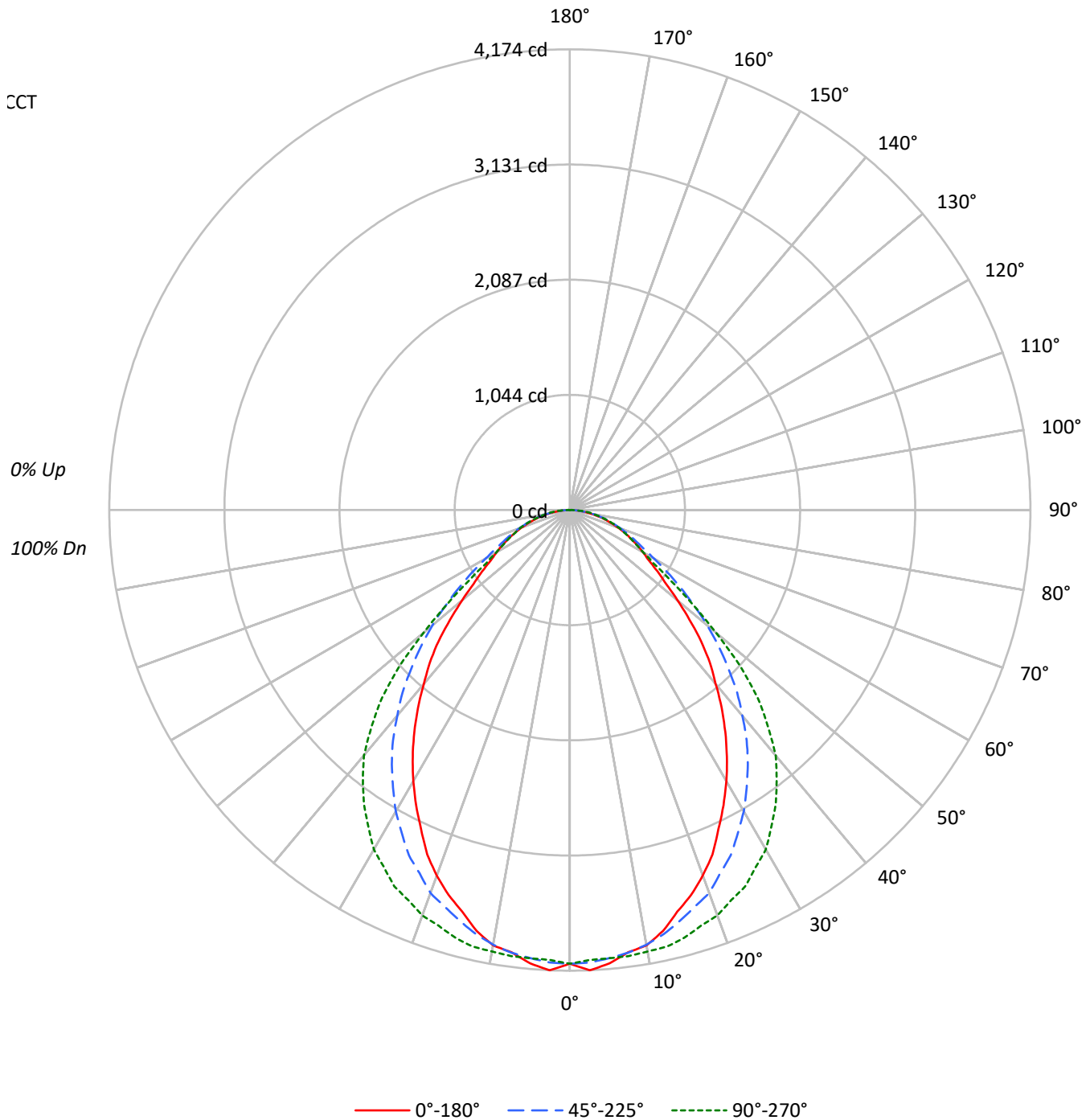
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8542.0 lumens
Efficiency: N/A
Efficacy: 122.0 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°	14583	14583	14583
5°	14684	14517	14517
10°	14431	14408	14631
15°	13833	14155	14736
20°	13308	13945	14760
25°	12484	13513	14726
30°	11620	12916	14553
35°	10637	12183	14090
40°	9523	11265	13443
45°	8451	10199	12086
50°	7031	8978	9532
55°	5989	7562	6928
60°	5430	6249	5475
65°	5114	5473	5096
70°	4811	5077	4967
75°	4483	4835	4746
80°	4105	4454	4585
85°	3566	3916	5134

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 12086 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	389.1	4.6
10°-20°	1095.0	12.8
20°-30°	1590.1	18.6
30°-40°	1770.7	20.7
40°-50°	1564.3	18.3
50°-60°	1026.5	12.0
60°-70°	628.6	7.4
70°-80°	365.8	4.3
80°-90°	112.0	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°	3074.2	36.0
0°-40°	4844.8	56.7
0°-60°	7435.6	87.0
0°-90°	8542.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8542.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4110	4110	4110	4110	4110	
5°	4123	4125	4076	4116	4076	389
15°	3766	3809	3854	4005	4012	1063
25°	3189	3266	3452	3672	3762	1467
35°	2456	2588	2813	3110	3253	1532
45°	1684	1787	2033	2306	2409	1288
55°	968	1037	1222	1212	1120	878
65°	609	620	652	633	607	606
75°	327	331	353	359	346	347
85°	88	92	96	109	126	99
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4110.0	4110.0	4110.0	4110.0	4110.0
2.5°	4174.1	4122.8	4103.6	4122.8	4080.1
5°	4122.8	4125.0	4075.8	4116.4	4075.8
7.5°	4041.6	4069.4	4045.9	4107.9	4075.8
10°	4005.3	4007.4	3998.9	4063.0	4060.9
12.5°	3904.8	3911.3	3934.8	4030.9	4052.3
15°	3765.9	3808.7	3853.5	4005.3	4011.7
17.5°	3656.9	3708.2	3768.1	3930.5	3949.7
20°	3524.4	3545.8	3693.2	3836.4	3909.1
22.5°	3376.9	3417.5	3560.7	3753.1	3825.8
25°	3188.8	3265.8	3451.7	3671.9	3761.6
27.5°	3015.7	3105.5	3297.8	3543.6	3648.4
30°	2836.2	2938.8	3152.5	3394.0	3552.2
32.5°	2650.2	2778.5	2981.5	3259.4	3398.3
35°	2455.8	2588.3	2812.7	3109.8	3253.0
37.5°	2261.3	2389.5	2633.1	2951.6	3079.8
40°	2056.1	2182.2	2432.2	2755.0	2902.4
42.5°	1878.7	1987.7	2244.2	2519.9	2656.7
45°	1684.2	1786.8	2032.6	2306.1	2408.7
47.5°	1470.5	1590.1	1829.5	2053.9	2094.5
50°	1273.8	1397.8	1626.5	1756.9	1726.9
52.5°	1100.7	1205.4	1414.9	1470.5	1399.9
55°	968.2	1036.6	1222.5	1211.8	1119.9
57.5°	846.4	889.1	1047.3	987.4	899.8
60°	765.2	784.4	880.6	825.0	771.6
62.5°	688.2	696.8	748.1	718.1	677.5
65°	609.1	619.8	651.9	632.6	607.0
67.5°	536.5	540.7	570.7	566.4	534.3
70°	463.8	470.2	489.4	498.0	478.8
72.5°	393.3	399.7	418.9	427.5	410.4
75°	327.0	331.3	352.7	359.1	346.2
77.5°	262.9	271.4	284.3	294.9	280.0
80°	200.9	205.2	218.0	230.8	224.4
82.5°	141.1	147.5	156.0	173.1	177.4
85°	87.6	91.9	96.2	109.0	126.1
87.5°	34.2	36.3	42.7	47.0	62.0
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	16.84	18.32	17.21	18.63	18.95	17.49	18.97	17.86	19.29	19.60
	3H	18.44	19.77	18.82	20.10	20.46	18.93	20.25	19.31	20.58	20.94
	4H	19.06	20.30	19.46	20.65	21.03	19.53	20.78	19.93	21.12	21.50
	6H	19.53	20.68	19.94	21.04	21.44	20.02	21.17	20.43	21.53	21.93
	8H	19.68	20.77	20.11	21.16	21.56	20.22	21.31	20.64	21.70	22.10
	12H	19.78	20.83	20.21	21.21	21.64	20.38	21.43	20.82	21.81	22.24
4H	2H	17.46	18.70	17.86	19.05	19.43	17.99	19.23	18.39	19.58	19.96
	3H	19.28	20.31	19.69	20.71	21.11	19.68	20.71	20.09	21.11	21.51
	4H	20.02	20.95	20.45	21.36	21.80	20.44	21.36	20.87	21.78	22.22
	6H	20.62	21.42	21.08	21.87	22.33	21.07	21.88	21.53	22.32	22.78
	8H	20.82	21.57	21.28	22.01	22.48	21.33	22.08	21.79	22.52	22.99
	12H	20.96	21.63	21.44	22.11	22.58	21.55	22.22	22.03	22.70	23.17
8H	4H	20.34	21.09	20.80	21.54	22.00	20.71	21.46	21.17	21.90	22.37
	6H	21.06	21.69	21.56	22.18	22.66	21.48	22.10	21.98	22.60	23.07
	8H	21.34	21.90	21.85	22.41	22.90	21.83	22.39	22.34	22.90	23.39
	12H	21.55	22.05	22.06	22.54	23.11	22.14	22.64	22.65	23.13	23.70
12H	4H	20.37	21.05	20.86	21.53	22.00	20.73	21.40	21.21	21.88	22.35
	6H	21.13	21.69	21.64	22.20	22.69	21.53	22.09	22.04	22.60	23.09
	8H	21.46	21.96	21.97	22.45	23.02	21.93	22.43	22.44	22.92	23.49