

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: P894785

Luminaire Tested: 8TMB-18HL-FLT-UNV-L930

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894785
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2403-334-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-18HL-FLT-UNV-L930
Description: 18000 Lumen 8FT MICROBAY LINEAR BAY with FLAT FROSTED LENS, 90CRI, 3000K CCT
Light Source: -
Ballast/Driver: -

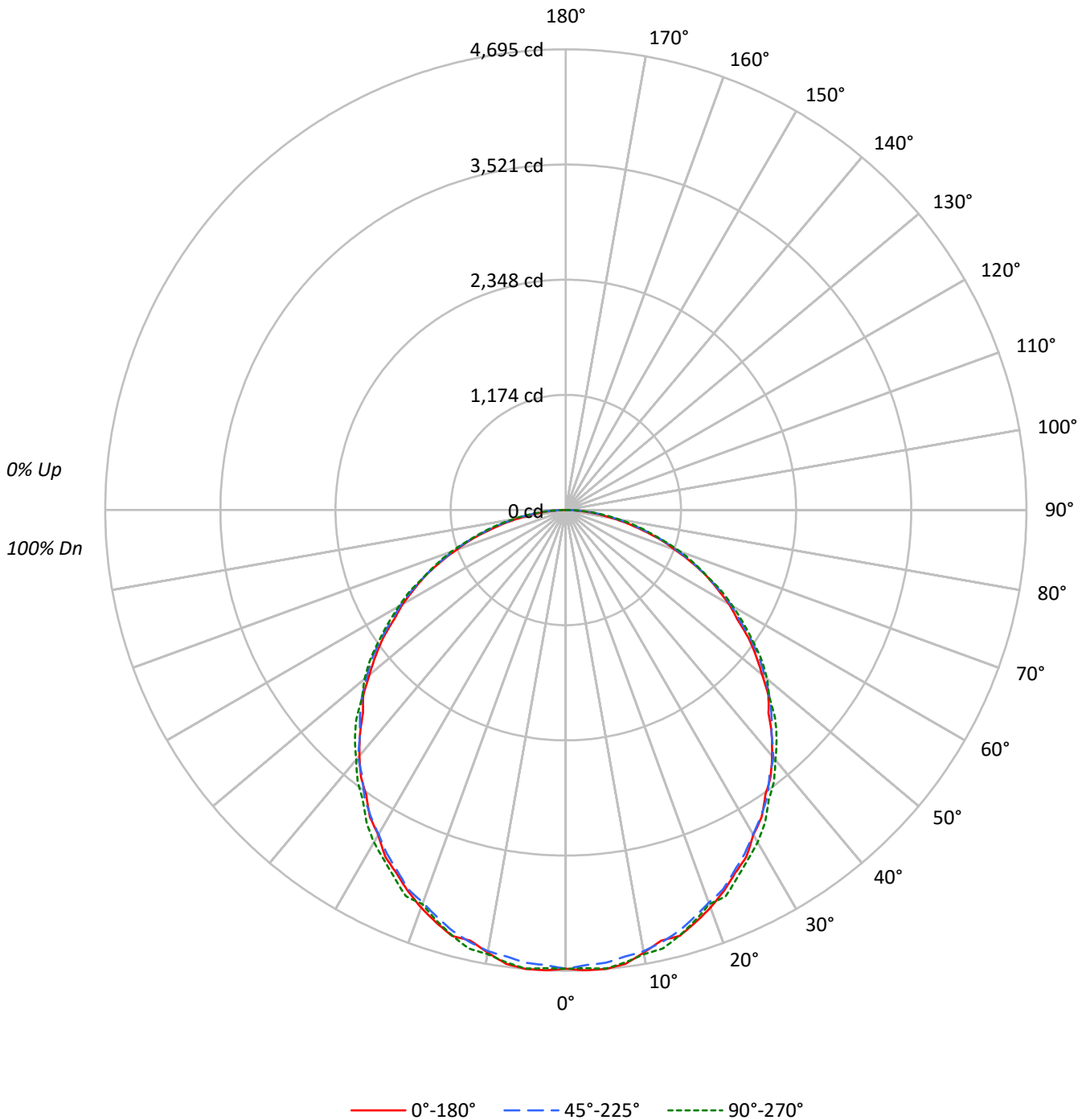
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12953.0 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.24 / 1.34
Luminous Opening: Rectangular (W 0.38' x L: 7.98' x H: 0')
CIE Type: Direct

Input Watts (W): 134.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 8.62
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				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	109	104	99	96	106	102	98	94	97	94	91	93	91	88	90	88	86	86	86	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	72	72	72	70
3	90	79	71	65	88	78	70	64	75	68	63	72	67	62	69	65	61	61	61	61	59
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	52	52	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	45	45	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	40	40	40	38
7	65	51	43	36	63	51	42	36	49	41	36	48	41	36	46	40	35	35	35	35	33
8	60	47	38	33	59	46	38	32	45	37	32	44	37	32	42	36	32	32	32	32	30
9	57	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	29	29	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	26	26	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16587	16587	16587
5°	16722	16499	16708
10°	16494	16450	16559
15°	16497	16326	16482
20°	16279	16081	16142
25°	15985	15898	16183
30°	15661	15637	16026
35°	15359	15491	15622
40°	15152	15245	15395
45°	14662	14885	15158
50°	14424	14636	14781
55°	14066	14241	14390
60°	13628	13829	13957
65°	13224	13274	13274
70°	12297	12590	12904
75°	11322	11765	12015
80°	9986	10852	11224
85°	8960	10031	10768

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 15158 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	442.5	3.4
10°-20°	1261.0	9.7
20°-30°	1891.4	14.6
30°-40°	2246.4	17.3
40°-50°	2300.0	17.8
50°-60°	2060.7	15.9
60°-70°	1565.4	12.1
70°-80°	911.8	7.0
80°-90°	273.8	2.1
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°	3594.9	27.8
0°-40°	5841.3	45.1
0°-60°	10202.0	78.8
0°-90°	12953.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12953.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4675	4675	4675	4675	4675	
5°	4695	4677	4632	4661	4691	445
15°	4491	4521	4445	4463	4487	1261
25°	4083	4120	4061	4113	4134	1884
35°	3546	3625	3576	3590	3607	2229
45°	2922	2995	2966	2991	3021	2273
55°	2274	2308	2302	2328	2326	2026
65°	1575	1575	1581	1601	1581	1547
75°	826	840	858	884	876	879
85°	220	224	246	262	264	247
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4674.8	4674.8	4674.8	4674.8	4674.8
2.5°	4695.0	4672.8	4642.5	4652.6	4672.8
5°	4695.0	4676.8	4632.4	4660.7	4690.9
7.5°	4664.7	4688.9	4592.0	4592.0	4648.5
10°	4577.9	4624.3	4565.7	4559.7	4596.0
12.5°	4495.1	4579.9	4511.2	4531.4	4575.8
15°	4491.0	4521.3	4444.6	4462.8	4487.0
17.5°	4404.2	4434.5	4351.7	4386.0	4386.0
20°	4311.3	4317.4	4258.8	4333.5	4275.0
22.5°	4204.3	4266.9	4186.1	4210.3	4260.8
25°	4083.1	4119.5	4060.9	4113.4	4133.6
27.5°	3984.2	4028.6	3947.8	4010.4	4016.5
30°	3822.6	3871.1	3816.6	3857.0	3911.5
32.5°	3713.6	3729.7	3701.5	3762.0	3778.2
35°	3546.0	3624.7	3576.3	3590.4	3606.6
37.5°	3428.9	3453.1	3410.7	3459.1	3485.4
40°	3271.3	3307.7	3291.5	3299.6	3323.8
42.5°	3107.8	3146.1	3103.7	3162.3	3180.5
45°	2922.0	2994.7	2966.4	2990.7	3020.9
47.5°	2800.8	2825.1	2817.0	2831.1	2810.9
50°	2613.0	2637.3	2651.4	2669.6	2677.7
52.5°	2445.4	2463.6	2489.9	2500.0	2518.1
55°	2273.8	2308.1	2302.1	2328.3	2326.3
57.5°	2073.9	2124.4	2108.2	2146.6	2146.6
60°	1920.4	1928.5	1948.7	1966.8	1966.8
62.5°	1742.7	1752.8	1762.9	1779.0	1791.2
65°	1575.1	1575.1	1581.1	1601.3	1581.1
67.5°	1381.2	1373.2	1393.3	1417.6	1415.6
70°	1185.4	1195.5	1213.6	1243.9	1243.9
72.5°	1017.8	1017.8	1037.9	1054.1	1052.1
75°	825.9	840.0	858.2	884.5	876.4
77.5°	654.3	664.4	694.7	718.9	720.9
80°	488.7	498.8	531.1	555.3	549.3
82.5°	341.3	355.4	385.7	403.9	401.9
85°	220.1	224.1	246.4	262.5	264.5
87.5°	101.0	109.0	125.2	131.3	131.3
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	21.29	22.93	21.65	23.24	23.55	21.39	23.03	21.76	23.34	23.66
	3H	23.07	24.55	23.44	24.88	25.24	23.23	24.71	23.61	25.04	25.40
	4H	23.73	25.13	24.13	25.48	25.85	23.93	25.32	24.33	25.67	26.05
	6H	24.21	25.50	24.62	25.87	26.26	24.48	25.77	24.89	26.14	26.53
	8H	24.36	25.59	24.78	25.98	26.38	24.67	25.91	25.09	26.29	26.69
	12H	24.46	25.65	24.89	26.03	26.46	24.81	26.00	25.24	26.38	26.81
4H	2H	21.93	23.33	22.33	23.68	24.05	22.01	23.41	22.41	23.76	24.13
	3H	23.93	25.11	24.34	25.50	25.90	24.08	25.25	24.49	25.65	26.05
	4H	24.73	25.79	25.16	26.20	26.64	24.92	25.98	25.35	26.39	26.83
	6H	25.33	26.26	25.78	26.70	27.15	25.61	26.53	26.06	26.98	27.43
	8H	25.52	26.39	25.98	26.84	27.30	25.85	26.72	26.31	27.16	27.63
	12H	25.67	26.46	26.15	26.93	27.40	26.05	26.83	26.53	27.31	27.78
8H	4H	25.06	25.93	25.52	26.37	26.84	25.23	26.10	25.69	26.54	27.01
	6H	25.79	26.51	26.28	27.00	27.47	26.05	26.78	26.55	27.27	27.74
	8H	26.06	26.71	26.57	27.21	27.70	26.39	27.04	26.89	27.54	28.03
	12H	26.29	26.86	26.79	27.35	27.91	26.67	27.25	27.18	27.74	28.30
12H	4H	25.11	25.89	25.58	26.36	26.83	25.26	26.05	25.74	26.52	26.99
	6H	25.86	26.51	26.37	27.02	27.50	26.11	26.76	26.62	27.27	27.75
	8H	26.19	26.77	26.70	27.26	27.82	26.51	27.08	27.01	27.57	28.13