

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: P894812

Luminaire Tested: 8TMB-18HL-LVRA-UNV-L950

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894812
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-18HL-LVRA-UNV-L950
Description: 18000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 90CRI, 5000K CCT
Light Source: -
Ballast/Driver: -

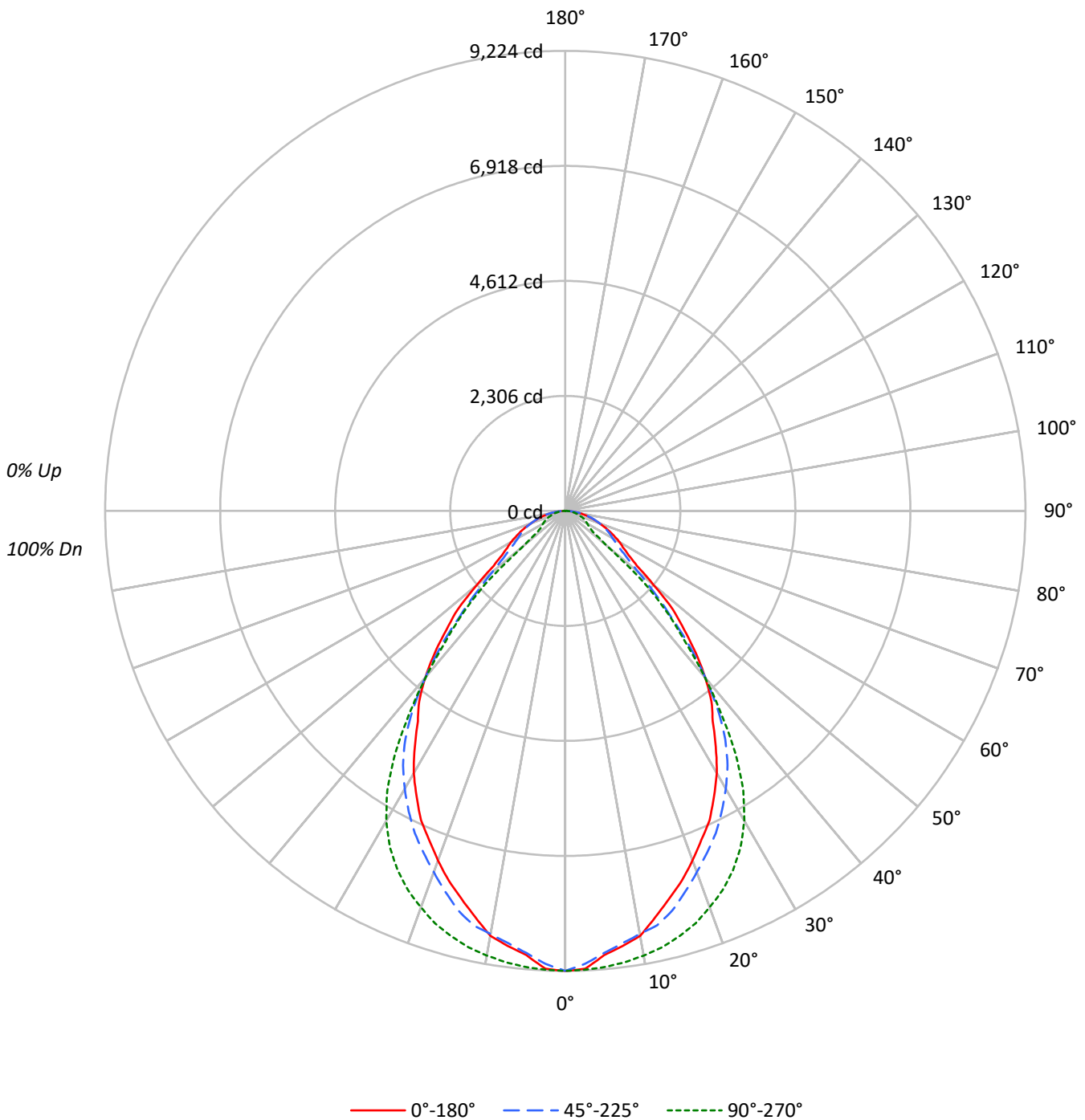
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14970.0 lumens
Efficiency: N/A
Efficacy: 111.1 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): 134.8
Input Voltage (V): 120
Input Current (Ain): 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				
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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	93	92	90	88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	85	82	80	78
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	78	74	71	69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	71	67	63	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	66	61	57	55
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	61	56	52	50
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	52	47	43	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	49	44	40	38
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	46	40	37	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	32728	32728	32728
5°	31845	31701	32692
10°	31168	31031	32616
15°	29559	30468	32432
20°	28159	29110	31938
25°	26785	27930	31123
30°	24885	26366	29385
35°	22314	24229	25774
40°	20216	20260	20150
45°	16903	14971	14601
50°	12768	10538	5971
55°	9603	8427	3765
60°	8924	7760	3627
65°	8303	7744	3633
70°	7596	7596	3576
75°	7203	7397	3455
80°	6655	6994	3545
85°	5805	6098	3872

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 17297 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	852.0	5.7
10°-20°	2347.7	15.7
20°-30°	3329.1	22.2
30°-40°	3429.7	22.9
40°-50°	2395.5	16.0
50°-60°	1149.5	7.7
60°-70°	806.4	5.4
70°-80°	504.2	3.4
80°-90°	155.9	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°	6528.8	43.6
0°-40°	9958.4	66.5
0°-60°	13503.4	90.2
0°-90°	14970.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14970.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9224	9224	9224	9224	9224	
5°	8941	8929	8901	9134	9179	846
15°	8047	8107	8294	8532	8829	2266
25°	6842	6911	7134	7617	7950	3128
35°	5152	5292	5594	5710	5950	3246
45°	3369	3447	2984	2831	2910	2595
55°	1552	1476	1362	872	609	1455
65°	989	925	922	701	433	980
75°	525	518	540	466	252	553
85°	143	143	150	147	95	159
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9223.9	9223.9	9223.9	9223.9	9223.9
2.5°	9188.2	9159.7	9090.7	9216.7	9207.2
5°	8941.0	8929.1	8900.6	9133.5	9178.7
7.5°	8800.7	8776.9	8743.7	9000.4	9126.4
10°	8651.0	8679.5	8612.9	8848.3	9052.7
12.5°	8341.9	8418.0	8508.3	8691.4	8962.4
15°	8047.1	8106.6	8294.4	8532.1	8829.2
17.5°	7771.4	7840.3	8002.0	8358.5	8674.7
20°	7457.6	7552.6	7709.5	8166.0	8458.4
22.5°	7134.2	7222.2	7419.5	7909.2	8234.9
25°	6841.8	6910.8	7134.2	7616.8	7949.7
27.5°	6454.3	6582.7	6794.3	7260.2	7609.7
30°	6074.0	6183.3	6435.3	6827.6	7172.3
32.5°	5615.2	5774.4	6052.6	6352.1	6639.8
35°	5151.6	5291.8	5593.8	5710.2	5950.4
37.5°	4814.0	4852.0	5023.2	5008.9	5144.5
40°	4364.7	4440.8	4374.2	4195.9	4350.4
42.5°	3879.7	3970.1	3701.4	3494.6	3549.3
45°	3368.6	3447.1	2983.5	2831.4	2909.8
47.5°	2926.4	2919.3	2405.8	2303.6	2194.2
50°	2313.1	2389.2	1909.0	1718.8	1081.7
52.5°	1806.7	1835.3	1573.8	1098.3	710.8
55°	1552.4	1476.3	1362.2	872.5	608.6
57.5°	1378.8	1283.7	1207.7	810.7	556.3
60°	1257.6	1150.6	1093.6	770.2	511.1
62.5°	1119.7	1036.5	1015.1	734.6	470.7
65°	989.0	924.8	922.4	701.3	432.7
67.5°	858.2	822.5	832.1	660.9	389.9
70°	732.2	725.1	732.2	608.6	344.7
72.5°	625.2	618.1	637.1	542.0	294.8
75°	525.4	518.2	539.6	465.9	252.0
77.5°	418.4	423.2	437.4	387.5	211.6
80°	325.7	325.7	342.3	304.3	173.5
82.5°	233.0	235.4	244.9	223.5	135.5
85°	142.6	142.6	149.8	147.4	95.1
87.5°	47.5	54.7	64.2	68.9	47.5
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	17.77	19.12	18.13	19.43	19.75	14.10	15.45	14.46	15.76	16.08
	3H	19.50	20.71	19.88	21.04	21.41	16.07	17.28	16.45	17.61	17.98
	4H	20.18	21.30	20.58	21.65	22.04	16.78	17.91	17.18	18.26	18.64
	6H	20.68	21.72	21.10	22.09	22.48	17.30	18.34	17.72	18.71	19.10
	8H	20.85	21.84	21.28	22.23	22.63	17.49	18.47	17.92	18.86	19.27
	12H	20.96	21.91	21.40	22.29	22.72	17.63	18.57	18.06	18.95	19.38
4H	2H	18.30	19.42	18.70	19.77	20.16	15.72	16.85	16.12	17.20	17.58
	3H	20.27	21.20	20.69	21.61	22.01	17.90	18.83	18.31	19.23	19.63
	4H	21.08	21.91	21.51	22.33	22.77	18.78	19.61	19.21	20.03	20.47
	6H	21.72	22.44	22.18	22.89	23.35	19.42	20.15	19.88	20.59	21.06
	8H	21.94	22.62	22.41	23.06	23.53	19.63	20.31	20.10	20.75	21.22
	12H	22.09	22.69	22.58	23.17	23.65	19.79	20.39	20.27	20.87	21.34
8H	4H	21.36	22.04	21.83	22.48	22.95	19.43	20.10	19.89	20.55	21.02
	6H	22.14	22.70	22.64	23.19	23.67	20.29	20.84	20.79	21.34	21.82
	8H	22.45	22.94	22.96	23.46	23.95	20.62	21.12	21.14	21.63	22.12
	12H	22.68	23.12	23.19	23.61	24.18	20.88	21.32	21.39	21.81	22.38
12H	4H	21.38	21.98	21.86	22.46	22.93	19.50	20.10	19.98	20.58	21.05
	6H	22.20	22.69	22.72	23.21	23.70	20.43	20.93	20.95	21.44	21.93
	8H	22.56	23.00	23.07	23.49	24.06	20.84	21.28	21.35	21.77	22.34