

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: P894626

Luminaire Tested: 8TMB-14HL-LVRF-UNV-L935

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894626
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-5)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-14HL-LVRF-UNV-L935
Description: 14000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 90CRI, 3500K (C
Light Source: -
Ballast/Driver: -

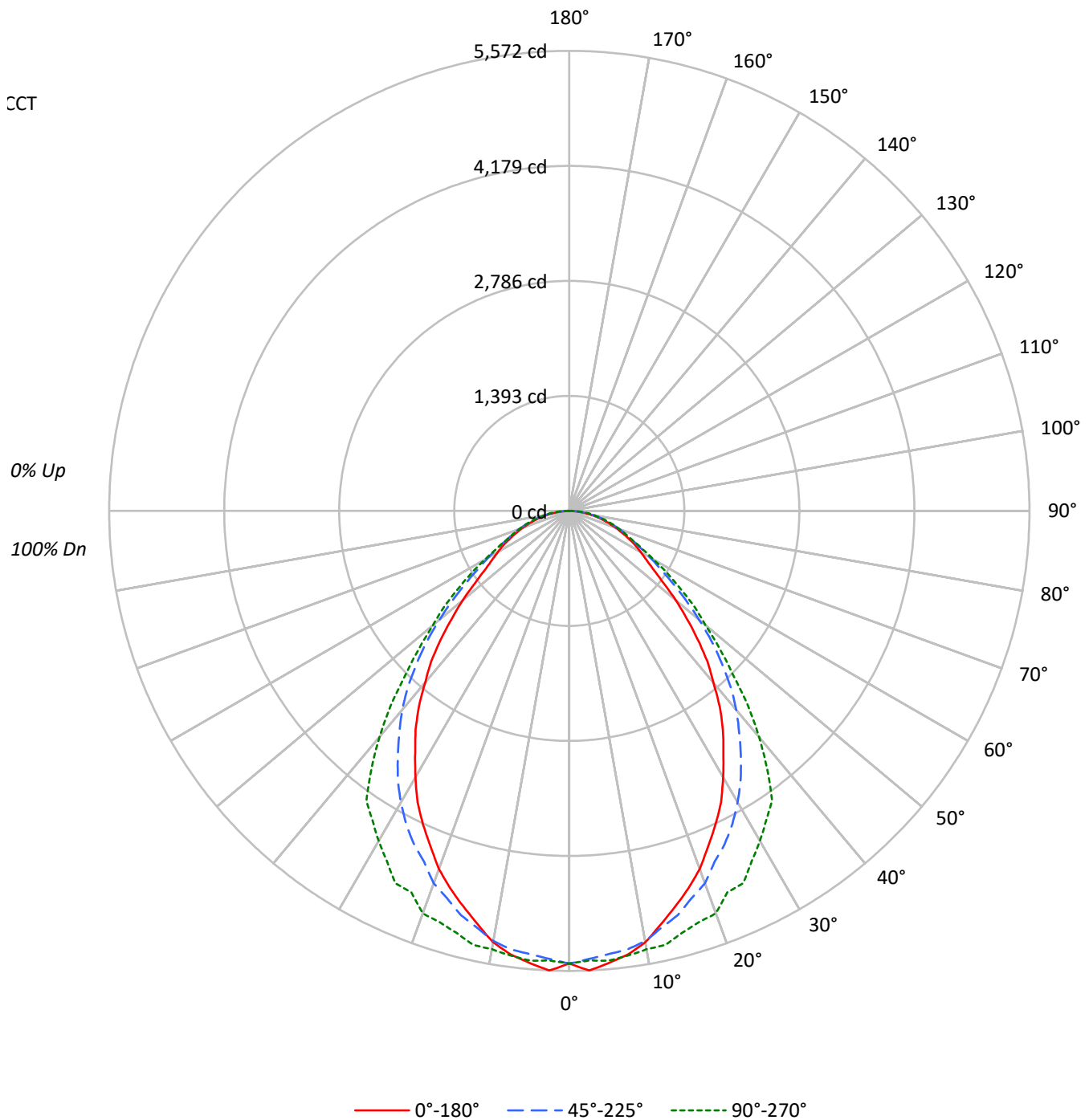
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11115.0 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.25 / 1.21
Luminous Opening: Rectangular (W 0.38' x L: 7.98' x H: 0')
CIE Type: Direct

Input Watts (W): 103.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 5.03
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	102	100
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	89	89	87
2	102	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	77	77	75
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	70	67	67	67	65
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	59	59	57
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	57	52	52	52	50
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	57	51	47	47	47	45
7	70	57	49	43	68	56	49	43	55	48	43	53	47	42	52	46	42	42	42	40
8	65	52	44	39	64	52	44	39	50	44	39	49	43	39	48	43	38	38	38	37
9	61	48	41	36	60	48	40	35	47	40	35	46	40	35	45	39	35	35	35	33
10	57	45	37	33	56	44	37	32	43	37	32	43	36	32	42	36	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19451	19451	19451
5°	19577	19198	19472
10°	19119	19060	19426
15°	18216	18620	19426
20°	17425	18124	19585
25°	16406	17432	19485
30°	15262	16705	18914
35°	14055	15681	18549
40°	12570	14574	16563
45°	11019	13108	14045
50°	9299	11326	11887
55°	7715	9479	10138
60°	7094	8059	8362
65°	6646	7086	7141
70°	6188	6715	6664
75°	5774	6268	6493
80°	5392	5827	6228
85°	4535	4938	6872

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 14045 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	517.4	4.7
10°-20°	1443.3	13.0
20°-30°	2078.6	18.7
30°-40°	2294.8	20.6
40°-50°	1969.1	17.7
50°-60°	1341.4	12.1
60°-70°	843.9	7.6
70°-80°	480.4	4.3
80°-90°	146.0	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°	4039.3	36.3
0°-40°	6334.1	57.0
0°-60°	9644.6	86.8
0°-90°	11115.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11115.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5482	5482	5482	5482	5482	
5°	5497	5475	5390	5503	5467	519
15°	4959	5012	5069	5298	5288	1396
25°	4190	4274	4453	4812	4977	1924
35°	3245	3371	3620	4015	4282	2018
45°	2196	2342	2612	2770	2799	1692
55°	1247	1324	1532	1606	1639	1146
65°	792	805	844	885	851	786
75°	421	424	457	477	474	449
85°	111	115	121	144	169	128
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5481.9	5481.9	5481.9	5481.9	5481.9
2.5°	5572.0	5514.7	5432.7	5511.4	5450.7
5°	5496.6	5475.3	5390.1	5503.2	5467.1
7.5°	5419.6	5373.7	5359.0	5480.2	5432.7
10°	5306.5	5280.3	5290.1	5445.8	5391.7
12.5°	5127.9	5145.9	5168.9	5367.2	5383.6
15°	4959.1	5011.5	5068.9	5298.3	5288.5
17.5°	4793.6	4865.7	4919.8	5214.8	5222.9
20°	4614.9	4655.9	4800.1	5085.3	5186.9
22.5°	4393.7	4474.0	4598.6	4954.2	5000.1
25°	4190.5	4274.1	4452.7	4811.6	4977.1
27.5°	3977.4	4054.5	4275.7	4642.8	4783.7
30°	3725.1	3828.3	4077.4	4451.1	4616.6
32.5°	3472.7	3623.5	3862.7	4246.2	4437.9
35°	3244.9	3371.1	3620.2	4015.1	4282.3
37.5°	2992.5	3125.2	3377.6	3762.8	3933.2
40°	2713.9	2856.5	3146.6	3457.9	3575.9
42.5°	2474.6	2597.5	2889.3	3108.9	3202.3
45°	2196.0	2341.9	2612.3	2769.6	2799.1
47.5°	1927.3	2094.4	2337.0	2410.7	2468.1
50°	1684.7	1815.8	2051.8	2097.7	2153.4
52.5°	1437.3	1576.6	1783.0	1828.9	1910.9
55°	1247.1	1324.2	1532.3	1606.1	1638.8
57.5°	1107.8	1157.0	1304.5	1397.9	1407.8
60°	999.7	1024.3	1135.7	1206.2	1178.3
62.5°	899.7	919.4	975.1	1029.2	993.1
65°	791.6	804.7	844.0	885.0	850.6
67.5°	689.9	704.7	740.8	770.2	740.8
70°	596.5	608.0	647.3	660.4	642.4
72.5°	509.7	514.6	547.4	570.3	558.8
75°	421.2	424.5	457.2	476.9	473.6
77.5°	340.9	345.8	373.7	391.7	381.8
80°	263.9	267.1	285.2	311.4	304.8
82.5°	185.2	191.7	203.2	226.2	244.2
85°	111.4	114.7	121.3	144.2	168.8
87.5°	42.6	45.9	49.2	60.6	80.3
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	17.77	19.25	18.13	19.56	19.87	19.13	20.61	19.49	20.92	21.23
	3H	19.34	20.67	19.72	21.00	21.36	20.41	21.74	20.79	22.07	22.43
	4H	19.95	21.19	20.35	21.54	21.92	20.97	22.21	21.37	22.56	22.94
	6H	20.42	21.57	20.83	21.94	22.33	21.42	22.56	21.83	22.93	23.32
	8H	20.58	21.67	21.00	22.06	22.46	21.60	22.70	22.03	23.08	23.49
	12H	20.68	21.72	21.11	22.10	22.53	21.76	22.80	22.19	23.19	23.62
4H	2H	18.38	19.62	18.78	19.97	20.35	19.49	20.74	19.89	21.08	21.46
	3H	20.18	21.21	20.59	21.61	22.01	21.05	22.08	21.46	22.48	22.88
	4H	20.91	21.83	21.34	22.25	22.69	21.75	22.68	22.19	23.10	23.54
	6H	21.50	22.31	21.96	22.75	23.21	22.36	23.17	22.82	23.61	24.07
	8H	21.71	22.46	22.17	22.90	23.37	22.61	23.36	23.07	23.81	24.27
	12H	21.85	22.52	22.33	23.00	23.47	22.82	23.50	23.31	23.97	24.45
8H	4H	21.23	21.99	21.70	22.43	22.90	21.99	22.74	22.45	23.18	23.65
	6H	21.96	22.58	22.45	23.07	23.55	22.73	23.35	23.23	23.85	24.32
	8H	22.23	22.79	22.75	23.30	23.79	23.06	23.62	23.58	24.13	24.62
	12H	22.45	22.94	22.96	23.43	24.00	23.37	23.86	23.88	24.36	24.92
12H	4H	21.27	21.94	21.75	22.42	22.89	22.00	22.67	22.48	23.15	23.62
	6H	22.03	22.59	22.54	23.10	23.58	22.77	23.33	23.28	23.84	24.33
	8H	22.36	22.86	22.87	23.35	23.92	23.16	23.65	23.67	24.15	24.71