

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: P894612

Luminaire Tested: 8TMB-14HL-LVR-UNV-L950

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894612
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-6)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-14HL-LVR-UNV-L950
Description: 14000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER, 90CRI, 5000K CCT
Light Source: -
Ballast/Driver: -

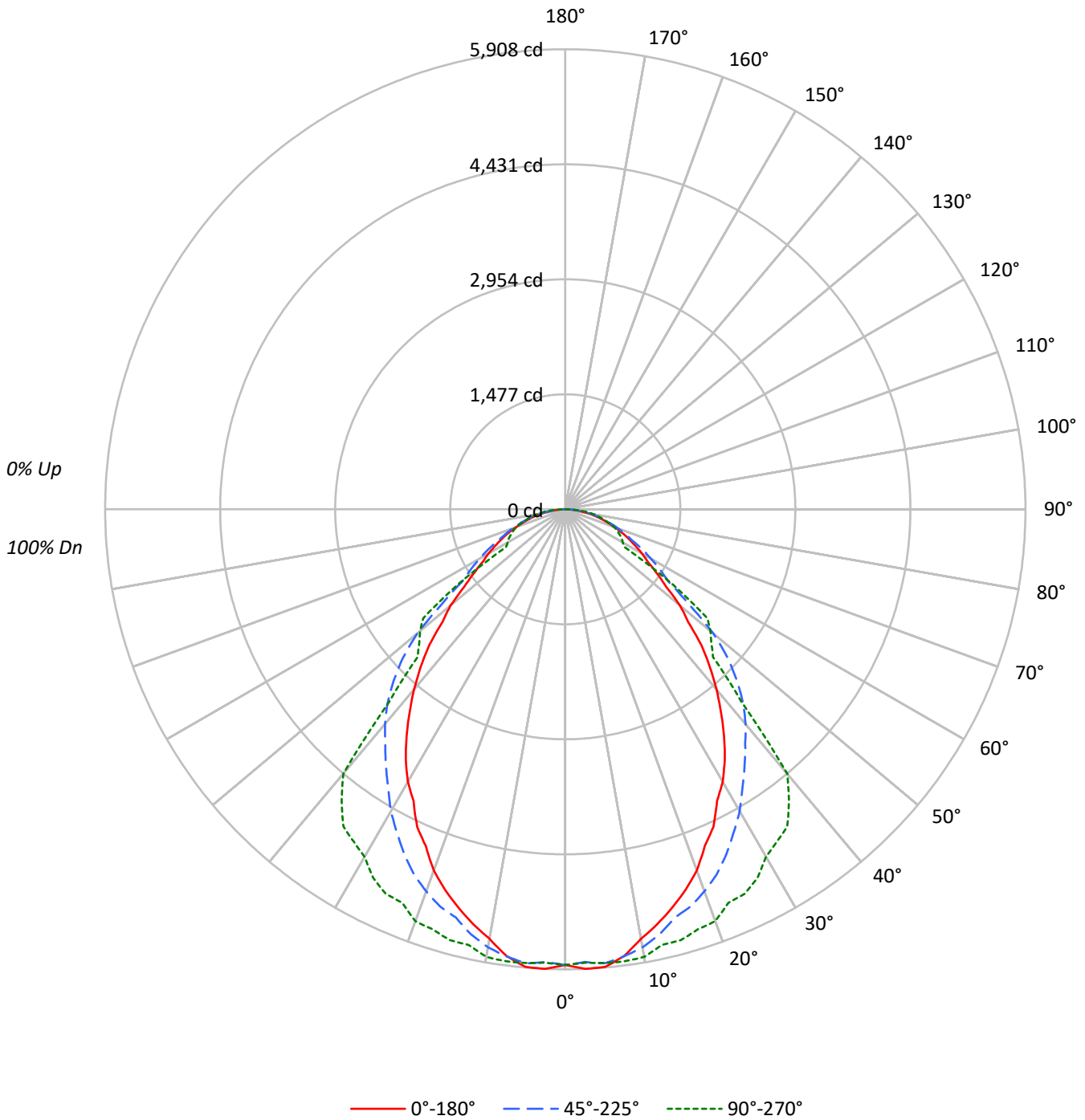
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12248.0 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.32 / 1.26
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 (A_{in}): 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	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	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	89	89	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	77	77	77	75
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	70	67	67	67	67	65
4	86	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59	59	59	59	57
5	80	68	60	54	78	67	60	54	65	59	53	63	57	53	62	56	52	52	52	52	50
6	74	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	47	47	47	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	42	42	42	40
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	38	38	38	36
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20761	20761	20761
5°	21012	20847	20834
10°	20184	20580	21032
15°	19461	19941	21045
20°	18642	19719	21257
25°	17613	19140	21333
30°	16552	18340	21114
35°	15393	17395	21526
40°	13985	16675	20527
45°	12391	15651	13460
50°	10605	13678	13432
55°	8887	9982	10449
60°	8085	9012	6048
65°	7575	7978	6464
70°	6970	7559	6917
75°	6549	7090	7044
80°	6109	6706	7550
85°	5248	5598	8044

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 15651 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	556.0	4.5
10°-20°	1555.7	12.7
20°-30°	2267.3	18.5
30°-40°	2593.8	21.2
40°-50°	2218.9	18.1
50°-60°	1463.2	11.9
60°-70°	884.6	7.2
70°-80°	541.2	4.4
80°-90°	167.2	1.4
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°	4379.1	35.8
0°-40°	6972.9	56.9
0°-60°	10655.1	87.0
0°-90°	12248.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12248.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5851	5851	5851	5851	5851	
5°	5899	5894	5853	5841	5850	553
15°	5298	5360	5428	5776	5729	1489
25°	4499	4568	4889	5306	5449	2058
35°	3554	3732	4016	4647	4970	2214
45°	2469	2660	3119	2914	2682	1890
55°	1437	1517	1614	1913	1689	1307
65°	902	924	950	849	770	892
75°	478	490	517	541	514	504
85°	129	127	138	163	198	146
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5851.3	5851.3	5851.3	5851.3	5851.3
2.5°	5908.0	5890.8	5820.3	5887.4	5827.2
5°	5899.4	5894.2	5853.0	5841.0	5849.5
7.5°	5786.0	5798.0	5791.1	5920.0	5854.7
10°	5602.1	5626.2	5712.1	5892.5	5837.5
12.5°	5457.7	5476.6	5591.8	5859.9	5731.0
15°	5297.9	5359.8	5428.5	5775.7	5729.3
17.5°	5126.1	5184.5	5347.8	5662.2	5657.1
20°	4937.1	5045.3	5222.3	5514.5	5629.6
22.5°	4681.0	4827.1	5076.3	5447.4	5469.8
25°	4498.9	4567.6	4888.9	5306.5	5449.2
27.5°	4222.2	4352.8	4681.0	5103.7	5339.2
30°	4040.0	4148.3	4476.5	4985.2	5153.6
32.5°	3811.5	3940.4	4234.2	4856.3	5059.1
35°	3553.7	3732.4	4016.0	4646.6	4969.7
37.5°	3282.2	3459.2	3794.3	4473.1	4717.1
40°	3019.3	3170.5	3600.1	4265.2	4431.8
42.5°	2749.5	2912.7	3378.4	3854.4	3333.8
45°	2469.4	2660.1	3119.0	2914.5	2682.5
47.5°	2137.7	2371.4	2832.0	2342.2	2541.6
50°	1921.2	2048.4	2478.0	2208.2	2433.3
52.5°	1634.2	1806.1	1989.9	2062.1	2299.3
55°	1436.6	1517.4	1613.6	1912.6	1689.2
57.5°	1254.5	1326.6	1438.3	1349.0	900.5
60°	1139.3	1172.0	1269.9	964.0	852.3
62.5°	1008.7	1041.4	1113.5	900.5	818.0
65°	902.2	924.5	950.3	848.9	769.9
67.5°	788.8	800.8	828.3	783.6	723.5
70°	671.9	689.1	728.6	716.6	666.8
72.5°	568.8	584.3	618.6	635.8	589.4
75°	477.7	489.8	517.2	541.3	513.8
77.5°	379.8	391.8	427.9	453.7	441.6
80°	299.0	300.7	328.2	354.0	369.5
82.5°	209.6	213.1	233.7	261.2	292.1
85°	128.9	127.2	137.5	163.3	197.6
87.5°	49.8	48.1	56.7	68.7	101.4
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	18.36	19.84	18.73	20.16	20.47	18.04	19.52	18.41	19.83	20.15
	3H	19.92	21.25	20.30	21.58	21.94	19.66	20.98	20.04	21.31	21.67
	4H	20.52	21.76	20.92	22.11	22.49	20.41	21.65	20.81	22.00	22.38
	6H	20.98	22.13	21.39	22.49	22.89	21.08	22.22	21.49	22.59	22.98
	8H	21.13	22.22	21.56	22.61	23.02	21.35	22.44	21.78	22.83	23.24
	12H	21.23	22.28	21.66	22.66	23.09	21.57	22.62	22.00	23.00	23.43
4H	2H	18.96	20.20	19.36	20.55	20.93	18.70	19.94	19.10	20.29	20.67
	3H	20.75	21.77	21.16	22.17	22.58	20.59	21.62	21.00	22.02	22.42
	4H	21.47	22.40	21.91	22.81	23.25	21.48	22.41	21.92	22.82	23.26
	6H	22.06	22.86	22.51	23.30	23.76	22.29	23.09	22.75	23.54	24.00
	8H	22.25	23.01	22.72	23.45	23.92	22.62	23.37	23.08	23.82	24.28
	12H	22.39	23.06	22.87	23.54	24.01	22.89	23.56	23.37	24.04	24.51
8H	4H	21.79	22.55	22.26	22.99	23.46	21.80	22.56	22.27	23.00	23.47
	6H	22.50	23.13	23.00	23.62	24.10	22.75	23.38	23.25	23.87	24.35
	8H	22.77	23.34	23.29	23.85	24.33	23.17	23.73	23.69	24.24	24.73
	12H	22.98	23.48	23.49	23.97	24.54	23.54	24.04	24.05	24.53	25.09
12H	4H	21.83	22.51	22.32	22.99	23.46	21.83	22.50	22.31	22.98	23.45
	6H	22.57	23.14	23.09	23.65	24.14	22.81	23.37	23.32	23.88	24.37
	8H	22.90	23.40	23.41	23.89	24.46	23.28	23.78	23.79	24.27	24.84