

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: P894610

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894610
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-L935
Description: 14000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER, 90CRI, 3500K CCT
Light Source: -
Ballast/Driver: -

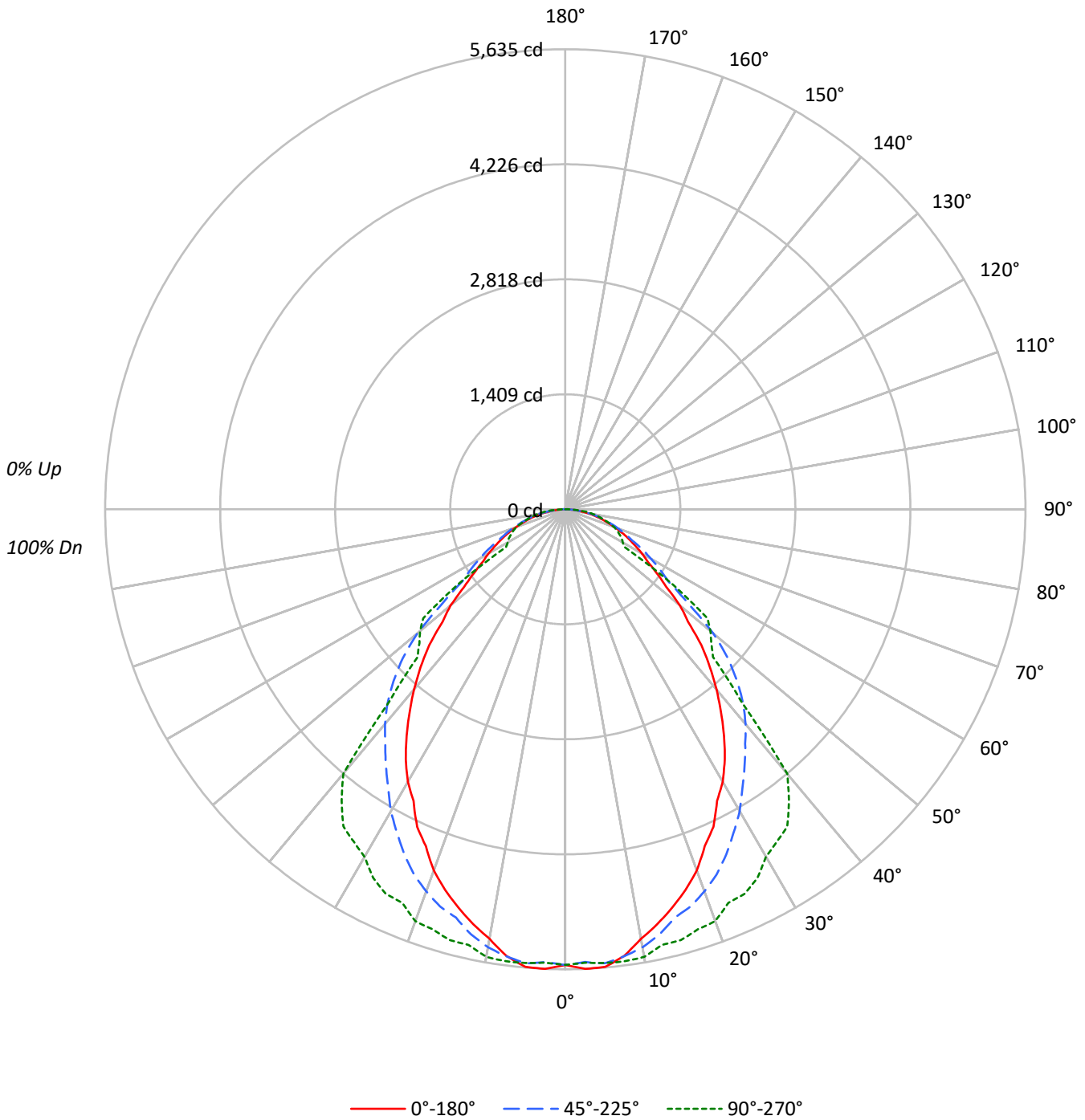
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11682.0 lumens
Efficiency: N/A
Efficacy: 112.8 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 (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	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°	19802	19802	19802
5°	20041	19883	19871
10°	19251	19629	20060
15°	18562	19019	20073
20°	17780	18807	20274
25°	16799	18255	20347
30°	15787	17493	20139
35°	14682	16591	20532
40°	13339	15905	19578
45°	11818	14927	12838
50°	10115	13046	12811
55°	8476	9520	9967
60°	7712	8595	5769
65°	7224	7610	6165
70°	6649	7209	6597
75°	6246	6763	6719
80°	5827	6398	7201
85°	5003	5337	7674

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 14927 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	530.3	4.5
10°-20°	1483.8	12.7
20°-30°	2162.6	18.5
30°-40°	2474.0	21.2
40°-50°	2116.4	18.1
50°-60°	1395.6	11.9
60°-70°	843.7	7.2
70°-80°	516.1	4.4
80°-90°	159.4	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°	4176.7	35.8
0°-40°	6650.7	56.9
0°-60°	10162.7	87.0
0°-90°	11682.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11682.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5581	5581	5581	5581	5581	
5°	5627	5622	5582	5571	5579	527
15°	5053	5112	5178	5509	5464	1421
25°	4291	4356	4663	5061	5197	1963
35°	3390	3560	3830	4432	4740	2112
45°	2355	2537	2975	2780	2558	1803
55°	1370	1447	1539	1824	1611	1246
65°	860	882	906	810	734	851
75°	456	467	493	516	490	481
85°	123	121	131	156	188	140
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5580.9	5580.9	5580.9	5580.9	5580.9
2.5°	5635.0	5618.6	5551.4	5615.3	5557.9
5°	5626.8	5621.8	5582.5	5571.0	5579.2
7.5°	5518.6	5530.1	5523.5	5646.4	5584.1
10°	5343.2	5366.2	5448.1	5620.2	5567.8
12.5°	5205.5	5223.6	5333.4	5589.1	5466.1
15°	5053.1	5112.1	5177.7	5508.8	5464.5
17.5°	4889.2	4944.9	5100.6	5400.6	5395.7
20°	4708.9	4812.2	4981.0	5259.6	5369.4
22.5°	4464.7	4604.0	4841.7	5195.7	5217.0
25°	4291.0	4356.5	4663.0	5061.3	5197.3
27.5°	4027.1	4151.6	4464.7	4867.9	5092.4
30°	3853.3	3956.6	4269.7	4754.8	4915.4
32.5°	3635.3	3758.3	4038.5	4631.9	4825.3
35°	3389.5	3560.0	3830.4	4431.9	4740.1
37.5°	3130.5	3299.4	3619.0	4266.4	4499.1
40°	2879.8	3024.0	3433.8	4068.1	4227.0
42.5°	2622.4	2778.1	3222.3	3676.3	3179.7
45°	2355.3	2537.2	2974.8	2779.8	2558.5
47.5°	2038.9	2261.8	2701.1	2234.0	2424.1
50°	1832.4	1953.7	2363.5	2106.1	2320.9
52.5°	1558.7	1722.6	1898.0	1966.8	2193.0
55°	1370.2	1447.3	1539.0	1824.2	1611.2
57.5°	1196.5	1265.3	1371.9	1286.6	858.8
60°	1086.7	1117.8	1211.2	919.5	813.0
62.5°	962.1	993.2	1062.1	858.8	780.2
65°	860.5	881.8	906.4	809.7	734.3
67.5°	752.3	763.8	790.0	747.4	690.0
70°	640.9	657.2	694.9	683.5	635.9
72.5°	542.5	557.3	590.0	606.4	562.2
75°	455.6	467.1	493.3	516.3	490.1
77.5°	362.2	373.7	408.1	432.7	421.2
80°	285.2	286.8	313.1	337.6	352.4
82.5°	200.0	203.2	222.9	249.1	278.6
85°	122.9	121.3	131.1	155.7	188.5
87.5°	47.5	45.9	54.1	65.6	96.7
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	18.20	19.68	18.56	19.99	20.31	17.88	19.36	18.24	19.67	19.98
	3H	19.76	21.08	20.14	21.41	21.77	19.49	20.82	19.87	21.15	21.51
	4H	20.36	21.60	20.76	21.95	22.33	20.24	21.48	20.64	21.83	22.21
	6H	20.82	21.96	21.23	22.33	22.72	20.91	22.06	21.32	22.42	22.82
	8H	20.97	22.06	21.40	22.45	22.85	21.19	22.28	21.62	22.67	23.07
	12H	21.07	22.11	21.50	22.49	22.92	21.41	22.45	21.84	22.83	23.26
4H	2H	18.79	20.03	19.19	20.38	20.76	18.54	19.78	18.94	20.13	20.51
	3H	20.58	21.61	20.99	22.01	22.41	20.42	21.45	20.83	21.85	22.25
	4H	21.31	22.23	21.74	22.65	23.09	21.32	22.24	21.75	22.66	23.10
	6H	21.89	22.70	22.35	23.14	23.60	22.12	22.93	22.58	23.37	23.83
	8H	22.09	22.84	22.55	23.29	23.75	22.45	23.21	22.92	23.65	24.12
	12H	22.23	22.90	22.71	23.38	23.85	22.73	23.40	23.21	23.88	24.35
8H	4H	21.63	22.38	22.09	22.83	23.30	21.64	22.39	22.10	22.84	23.31
	6H	22.34	22.96	22.84	23.46	23.93	22.59	23.21	23.09	23.70	24.18
	8H	22.61	23.17	23.12	23.68	24.17	23.01	23.57	23.52	24.08	24.57
	12H	22.82	23.32	23.33	23.81	24.37	23.37	23.87	23.88	24.36	24.93
12H	4H	21.67	22.34	22.15	22.82	23.29	21.67	22.34	22.15	22.82	23.29
	6H	22.41	22.97	22.93	23.48	23.97	22.64	23.20	23.16	23.71	24.20
	8H	22.74	23.24	23.25	23.73	24.29	23.12	23.62	23.63	24.11	24.68