

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: P894628

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894628
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-L950
Description: 14000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 90CRI, 5000K (C)
Light Source: -
Ballast/Driver: -

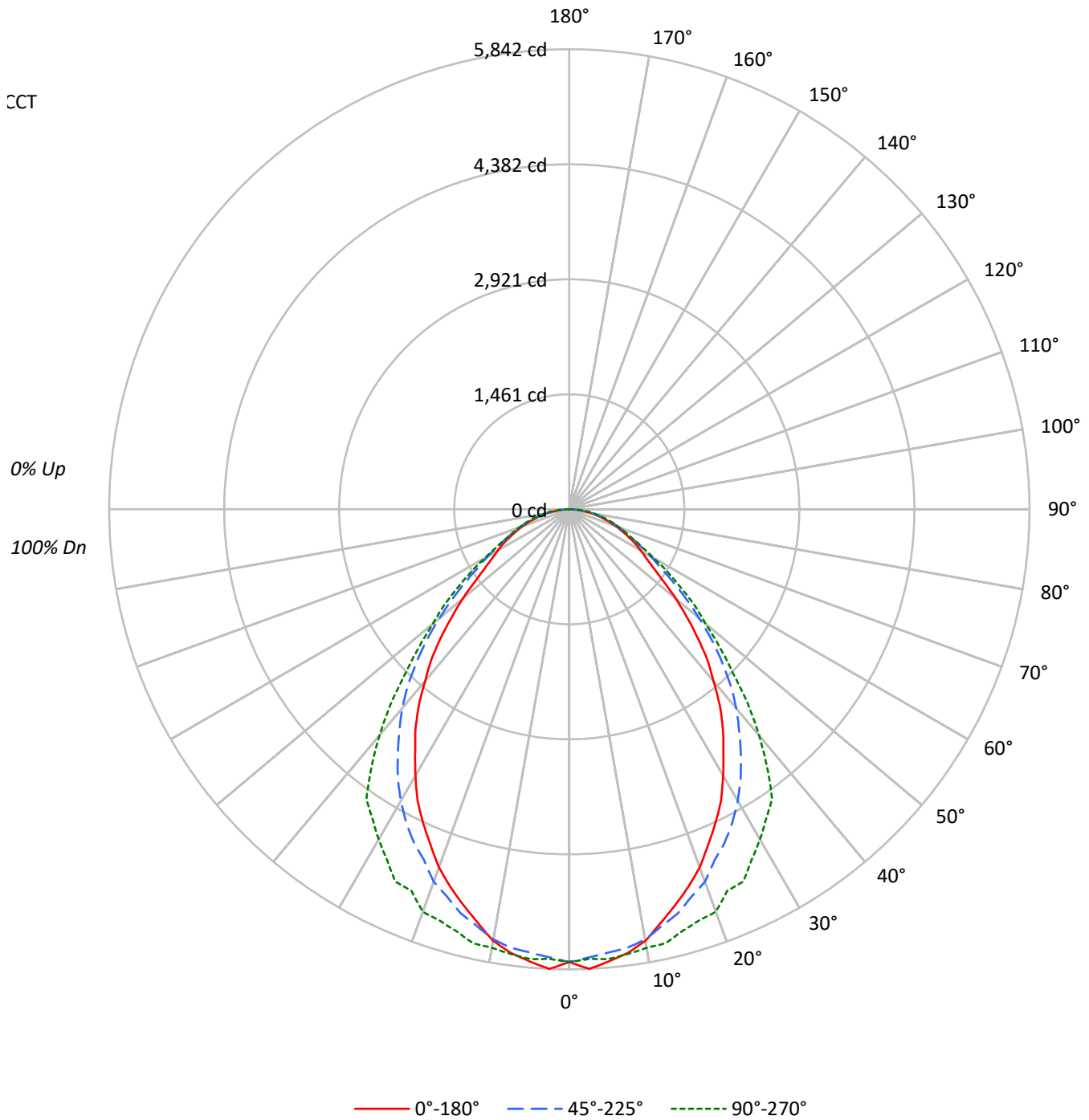
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11654.0 lumens
Efficiency: N/A
Efficacy: 112.5 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	100	
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87	87	
2	102	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75	75	
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	70	67	65	65	
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	57	57	
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	57	52	50	50	
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	57	51	47	45	45	
7	70	57	49	43	68	56	49	43	55	48	43	53	47	42	52	46	42	40	40	
8	65	52	44	39	64	52	44	39	50	44	39	49	43	39	48	43	38	37	37	
9	61	48	41	36	60	48	40	35	47	40	35	46	40	35	45	39	35	33	33	
10	57	45	37	33	56	44	37	32	43	37	32	43	36	32	42	36	32	30	30	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20394	20394	20394
5°	20527	20129	20417
10°	20046	19984	20368
15°	19100	19522	20368
20°	18270	19003	20535
25°	17201	18277	20430
30°	16002	17515	19832
35°	14737	16441	19448
40°	13180	15281	17366
45°	11554	13744	14727
50°	9750	11875	12463
55°	8089	9938	10629
60°	7438	8450	8767
65°	6968	7429	7487
70°	6489	7041	6988
75°	6054	6572	6808
80°	5652	6109	6530
85°	4755	5178	7206

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 14727 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	542.5	4.7
10°-20°	1513.3	13.0
20°-30°	2179.4	18.7
30°-40°	2406.1	20.6
40°-50°	2064.6	17.7
50°-60°	1406.5	12.1
60°-70°	884.8	7.6
70°-80°	503.7	4.3
80°-90°	153.1	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°	4235.2	36.3
0°-40°	6641.3	57.0
0°-60°	10112.3	86.8
0°-90°	11654.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11654.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5748	5748	5748	5748	5748	
5°	5763	5741	5652	5770	5732	544
15°	5200	5255	5315	5555	5545	1464
25°	4394	4481	4669	5045	5218	2018
35°	3402	3534	3796	4210	4490	2116
45°	2302	2456	2739	2904	2935	1774
55°	1308	1388	1607	1684	1718	1201
65°	830	844	885	928	892	824
75°	442	445	479	500	497	471
85°	117	120	127	151	177	134
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5747.7	5747.7	5747.7	5747.7	5747.7
2.5°	5842.2	5782.1	5696.2	5778.6	5715.1
5°	5763.2	5740.8	5651.5	5770.1	5732.3
7.5°	5682.4	5634.3	5618.8	5746.0	5696.2
10°	5563.9	5536.4	5546.7	5709.9	5653.2
12.5°	5376.6	5395.5	5419.5	5627.4	5644.6
15°	5199.6	5254.6	5314.7	5555.3	5545.0
17.5°	5026.0	5101.6	5158.3	5467.6	5476.2
20°	4838.7	4881.7	5032.9	5331.9	5438.4
22.5°	4606.8	4691.0	4821.6	5194.4	5242.5
25°	4393.7	4481.3	4668.6	5044.9	5218.5
27.5°	4170.3	4251.1	4483.0	4867.9	5015.7
30°	3905.7	4014.0	4275.1	4666.9	4840.5
32.5°	3641.1	3799.2	4050.0	4452.1	4653.2
35°	3402.2	3534.5	3795.7	4209.8	4489.9
37.5°	3137.6	3276.8	3541.4	3945.2	4123.9
40°	2845.5	2995.0	3299.1	3625.6	3749.3
42.5°	2594.6	2723.5	3029.4	3259.6	3357.6
45°	2302.5	2455.5	2739.0	2903.9	2934.9
47.5°	2020.7	2196.0	2450.3	2527.6	2587.8
50°	1766.4	1903.9	2151.3	2199.4	2257.8
52.5°	1506.9	1653.0	1869.5	1917.6	2003.5
55°	1307.6	1388.4	1606.6	1683.9	1718.3
57.5°	1161.6	1213.1	1367.8	1465.7	1476.0
60°	1048.2	1073.9	1190.8	1264.7	1235.5
62.5°	943.3	964.0	1022.4	1079.1	1041.3
65°	829.9	843.7	884.9	927.9	891.8
67.5°	723.4	738.9	776.7	807.6	776.7
70°	625.5	637.5	678.7	692.5	673.6
72.5°	534.4	539.5	573.9	598.0	585.9
75°	441.6	445.0	479.4	500.0	496.6
77.5°	357.4	362.6	391.8	410.7	400.4
80°	276.6	280.1	299.0	326.5	319.6
82.5°	194.2	201.0	213.1	237.1	256.0
85°	116.8	120.3	127.2	151.2	177.0
87.5°	44.7	48.1	51.5	63.6	84.2
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	17.93	19.41	18.30	19.72	20.04	19.29	20.77	19.66	21.08	21.40
	3H	19.51	20.83	19.89	21.16	21.52	20.58	21.90	20.96	22.23	22.59
	4H	20.12	21.36	20.52	21.71	22.09	21.13	22.37	21.53	22.72	23.10
	6H	20.59	21.73	21.00	22.10	22.49	21.58	22.73	22.00	23.10	23.49
	8H	20.74	21.83	21.17	22.22	22.62	21.77	22.86	22.20	23.25	23.65
	12H	20.84	21.88	21.27	22.27	22.70	21.92	22.97	22.36	23.35	23.78
4H	2H	18.54	19.78	18.94	20.13	20.51	19.66	20.90	20.06	21.25	21.63
	3H	20.35	21.38	20.76	21.78	22.18	21.21	22.24	21.63	22.64	23.04
	4H	21.07	22.00	21.51	22.41	22.85	21.92	22.84	22.35	23.26	23.70
	6H	21.67	22.47	22.13	22.92	23.38	22.53	23.33	22.99	23.78	24.24
	8H	21.87	22.62	22.33	23.07	23.54	22.77	23.53	23.24	23.97	24.44
	12H	22.01	22.68	22.49	23.16	23.63	22.99	23.66	23.47	24.14	24.61
8H	4H	21.40	22.15	21.86	22.60	23.06	22.15	22.90	22.62	23.35	23.82
	6H	22.12	22.74	22.62	23.24	23.71	22.90	23.52	23.39	24.01	24.49
	8H	22.40	22.96	22.91	23.47	23.96	23.23	23.79	23.74	24.30	24.79
	12H	22.61	23.11	23.12	23.60	24.16	23.53	24.03	24.04	24.52	25.09
12H	4H	21.44	22.11	21.92	22.59	23.06	22.17	22.84	22.65	23.32	23.79
	6H	22.19	22.75	22.70	23.26	23.75	22.93	23.49	23.45	24.00	24.49
	8H	22.53	23.02	23.04	23.51	24.08	23.32	23.82	23.83	24.31	24.88