

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: P894589

Luminaire Tested: 8TMB-14HL-FLT-UNV-L830

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894589
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2403-334-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-14HL-FLT-UNV-L830
Description: 14000 Lumen 8FT MICROBAY LINEAR BAY with FLAT FROSTED LENS, 80CRI, 3000K CCT
Light Source: -
Ballast/Driver: -

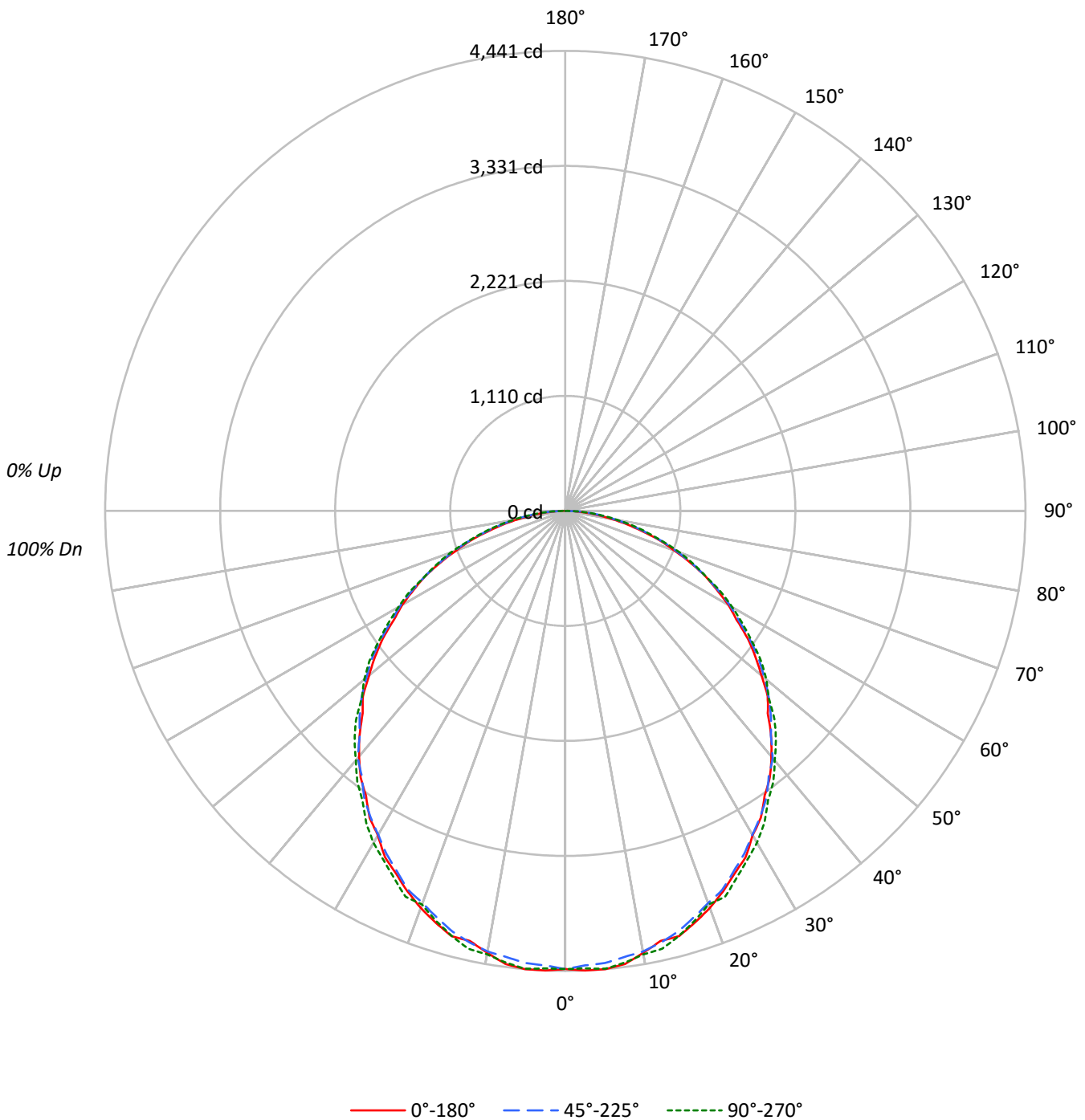
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12253.0 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.24 / 1.34
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				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	109	104	99	96	106	102	98	94	97	94	91	93	91	88	90	88	86	86	86	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	72	72	72	70
3	90	79	71	65	88	78	70	64	75	68	63	72	67	62	69	65	61	61	61	61	59
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	52	52	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	45	45	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	40	40	40	38
7	65	51	43	36	63	51	42	36	49	41	36	48	41	36	46	40	35	35	35	35	33
8	60	47	38	33	59	46	38	32	45	37	32	44	37	32	42	36	32	32	32	32	30
9	57	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	29	29	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	26	26	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15691	15691	15691
5°	15819	15607	15805
10°	15602	15561	15664
15°	15605	15444	15591
20°	15399	15212	15269
25°	15121	15039	15308
30°	14815	14792	15159
35°	14529	14653	14778
40°	14333	14422	14563
45°	13870	14081	14339
50°	13644	13845	13982
55°	13305	13471	13613
60°	12891	13081	13203
65°	12509	12557	12557
70°	11632	11909	12207
75°	10711	11129	11365
80°	9446	10265	10617
85°	8476	9485	10186

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 14339 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	418.6	3.4
10°-20°	1192.9	9.7
20°-30°	1789.2	14.6
30°-40°	2125.0	17.3
40°-50°	2175.7	17.8
50°-60°	1949.3	15.9
60°-70°	1480.8	12.1
70°-80°	862.5	7.0
80°-90°	259.0	2.1
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°	3400.7	27.8
0°-40°	5525.7	45.1
0°-60°	9650.7	78.8
0°-90°	12253.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12253.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4422	4422	4422	4422	4422	
5°	4441	4424	4382	4409	4437	421
15°	4248	4277	4204	4222	4244	1192
25°	3862	3897	3842	3891	3910	1782
35°	3354	3429	3383	3396	3412	2108
45°	2764	2833	2806	2829	2858	2150
55°	2151	2183	2178	2202	2201	1916
65°	1490	1490	1496	1515	1496	1463
75°	781	795	812	837	829	832
85°	208	212	233	248	250	233
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4422.2	4422.2	4422.2	4422.2	4422.2
2.5°	4441.3	4420.2	4391.6	4401.1	4420.2
5°	4441.3	4424.1	4382.0	4408.8	4437.4
7.5°	4412.6	4435.5	4343.8	4343.8	4397.3
10°	4330.5	4374.4	4319.0	4313.3	4347.7
12.5°	4252.1	4332.4	4267.4	4286.5	4328.6
15°	4248.3	4277.0	4204.4	4221.6	4244.5
17.5°	4166.2	4194.8	4116.5	4149.0	4149.0
20°	4078.3	4084.0	4028.7	4099.3	4043.9
22.5°	3977.1	4036.3	3959.9	3982.8	4030.6
25°	3862.5	3896.8	3841.5	3891.1	3910.2
27.5°	3768.9	3810.9	3734.5	3793.7	3799.4
30°	3616.0	3661.9	3610.3	3648.5	3700.1
32.5°	3512.9	3528.2	3501.4	3558.7	3574.0
35°	3354.3	3428.8	3383.0	3396.4	3411.7
37.5°	3243.6	3266.5	3226.4	3272.2	3297.0
40°	3094.6	3128.9	3113.7	3121.3	3144.2
42.5°	2939.8	2976.1	2936.0	2991.4	3008.6
45°	2764.1	2832.9	2806.1	2829.0	2857.7
47.5°	2649.5	2672.4	2664.8	2678.1	2659.0
50°	2471.8	2494.7	2508.1	2525.3	2533.0
52.5°	2313.3	2330.5	2355.3	2364.9	2382.0
55°	2150.9	2183.4	2177.6	2202.5	2200.6
57.5°	1961.8	2009.6	1994.3	2030.6	2030.6
60°	1816.6	1824.3	1843.4	1860.6	1860.6
62.5°	1648.5	1658.1	1667.6	1682.9	1694.4
65°	1490.0	1490.0	1495.7	1514.8	1495.7
67.5°	1306.6	1298.9	1318.1	1341.0	1339.1
70°	1121.3	1130.8	1148.0	1176.7	1176.7
72.5°	962.8	962.8	981.9	997.1	995.2
75°	781.3	794.7	811.8	836.7	829.0
77.5°	618.9	628.5	657.1	680.0	681.9
80°	462.3	471.8	502.4	525.3	519.6
82.5°	322.8	336.2	364.9	382.0	380.1
85°	208.2	212.0	233.0	248.3	250.2
87.5°	95.5	103.2	118.4	124.2	124.2
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	21.09	22.73	21.46	23.05	23.36	21.20	22.84	21.56	23.15	23.47
	3H	22.87	24.36	23.25	24.68	25.04	23.04	24.52	23.41	24.85	25.21
	4H	23.54	24.94	23.94	25.28	25.66	23.73	25.13	24.13	25.48	25.85
	6H	24.01	25.31	24.42	25.67	26.06	24.28	25.58	24.69	25.94	26.33
	8H	24.16	25.40	24.59	25.79	26.19	24.47	25.71	24.90	26.10	26.50
	12H	24.27	25.46	24.70	25.84	26.27	24.62	25.80	25.05	26.19	26.61
4H	2H	21.74	23.14	22.14	23.48	23.86	21.82	23.22	22.22	23.57	23.94
	3H	23.74	24.91	24.15	25.31	25.71	23.89	25.06	24.29	25.46	25.86
	4H	24.53	25.60	24.96	26.01	26.44	24.72	25.79	25.15	26.20	26.63
	6H	25.13	26.06	25.59	26.50	26.96	25.41	26.34	25.87	26.78	27.24
	8H	25.33	26.20	25.79	26.64	27.11	25.66	26.53	26.12	26.97	27.43
	12H	25.48	26.26	25.96	26.74	27.21	25.86	26.64	26.34	27.11	27.58
8H	4H	24.87	25.74	25.33	26.18	26.65	25.04	25.91	25.50	26.35	26.81
	6H	25.59	26.32	26.09	26.81	27.28	25.86	26.58	26.35	27.07	27.55
	8H	25.86	26.52	26.37	27.02	27.51	26.19	26.84	26.70	27.35	27.83
	12H	26.09	26.67	26.60	27.16	27.72	26.48	27.06	26.99	27.55	28.11
12H	4H	24.91	25.70	25.39	26.17	26.64	25.07	25.85	25.55	26.33	26.80
	6H	25.66	26.32	26.17	26.82	27.31	25.92	26.57	26.43	27.08	27.56
	8H	26.00	26.58	26.51	27.07	27.63	26.31	26.89	26.82	27.38	27.94