

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: P894595

Luminaire Tested: 8TMB-14HL-FLT-UNV-L940

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894595
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-L940
Description: 14000 Lumen 8FT MICROBAY LINEAR BAY with FLAT FROSTED LENS, 90CRI, 4000K CCT
Light Source: -
Ballast/Driver: -

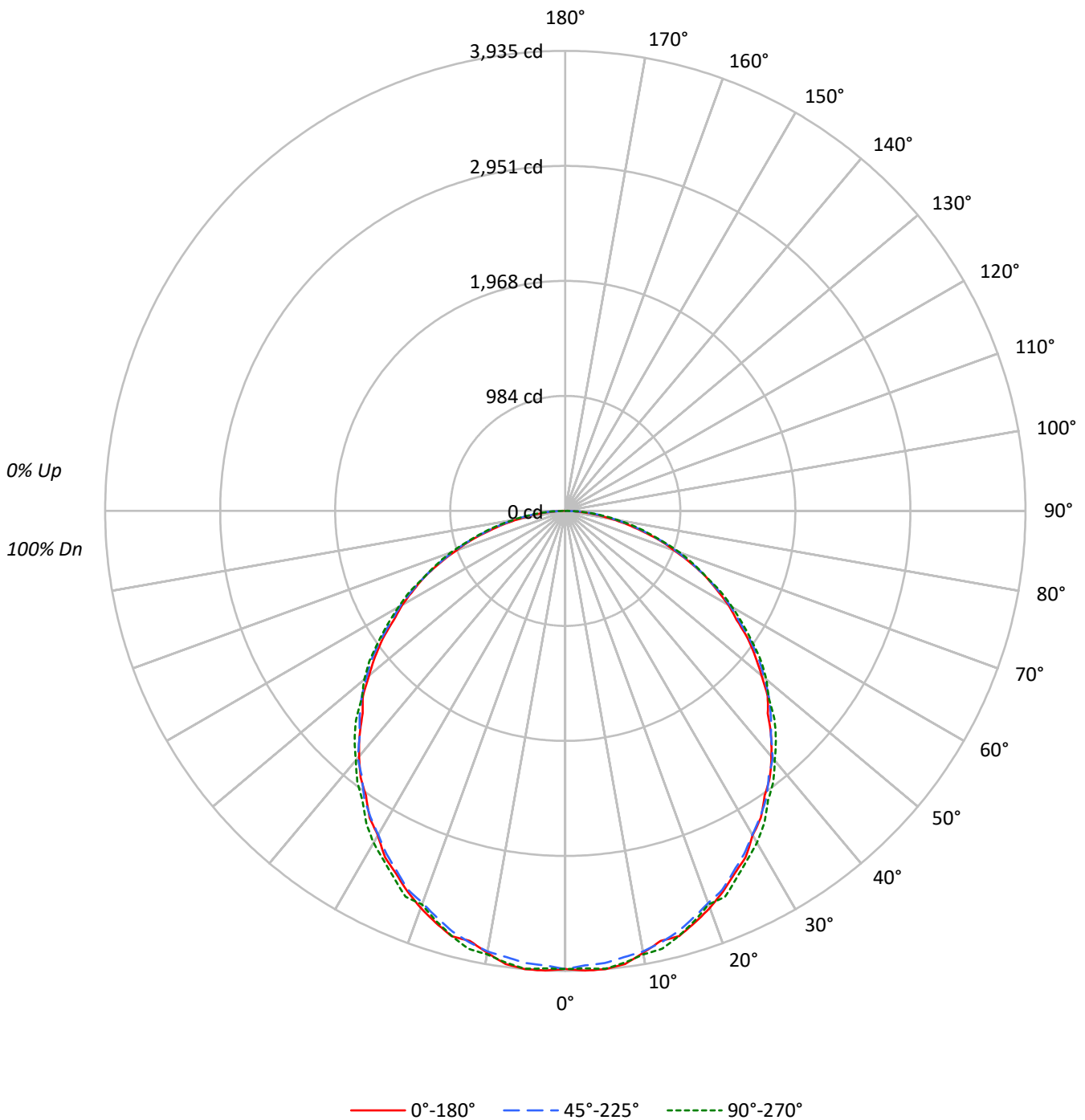
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10857.0 lumens
Efficiency: N/A
Efficacy: 104.8 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 (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

TEST NUMBER: P894595
CATALOG NUMBER: 8TMB-14HL-FLT-UNV-L940

Luminous Intensity Polar Plot





TEST NUMBER: P894595
 CATALOG NUMBER: 8TMB-14HL-FLT-UNV-L940

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	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°	13903	13903	13903
5°	14016	13829	14004
10°	13825	13788	13879
15°	13827	13685	13815
20°	13645	13479	13530
25°	13398	13326	13564
30°	13127	13106	13432
35°	12874	12984	13094
40°	12700	12779	12904
45°	12290	12476	12706
50°	12090	12267	12389
55°	11790	11936	12062
60°	11422	11590	11699
65°	11084	11127	11127
70°	10307	10552	10816
75°	9491	9861	10071
80°	8369	9095	9407
85°	7511	8407	9025

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 12706 cd/sqm



TEST NUMBER: P894595
 CATALOG NUMBER: 8TMB-14HL-FLT-UNV-L940

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.9	3.4
10°-20°	1057.0	9.7
20°-30°	1585.4	14.6
30°-40°	1882.9	17.3
40°-50°	1927.8	17.8
50°-60°	1727.2	15.9
60°-70°	1312.1	12.1
70°-80°	764.2	7.0
80°-90°	229.5	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°	3013.2	27.8
0°-40°	4896.1	45.1
0°-60°	8551.2	78.8
0°-90°	10857.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10857.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3918	3918	3918	3918	3918	
5°	3935	3920	3883	3906	3932	373
15°	3764	3790	3725	3741	3761	1057
25°	3422	3453	3404	3448	3465	1579
35°	2972	3038	2998	3009	3023	1868
45°	2449	2510	2486	2507	2532	1905
55°	1906	1935	1930	1952	1950	1698
65°	1320	1320	1325	1342	1325	1297
75°	692	704	719	741	735	737
85°	184	188	206	220	222	207
90°	0	0	0	0	0	



TEST NUMBER: P894595

CATALOG NUMBER: 8TMB-14HL-FLT-UNV-L940

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3918.3	3918.3	3918.3	3918.3	3918.3
2.5°	3935.3	3916.6	3891.3	3899.7	3916.6
5°	3935.3	3920.0	3882.8	3906.5	3931.9
7.5°	3909.9	3930.2	3848.9	3848.9	3896.3
10°	3837.1	3876.0	3826.9	3821.9	3852.3
12.5°	3767.7	3838.8	3781.2	3798.2	3835.4
15°	3764.3	3789.7	3725.4	3740.6	3760.9
17.5°	3691.5	3716.9	3647.5	3676.3	3676.3
20°	3613.7	3618.7	3569.7	3632.3	3583.2
22.5°	3524.0	3576.4	3508.7	3529.0	3571.4
25°	3422.4	3452.9	3403.8	3447.8	3464.7
27.5°	3339.5	3376.7	3309.0	3361.5	3366.6
30°	3204.1	3244.7	3199.0	3232.8	3278.5
32.5°	3112.7	3126.2	3102.5	3153.3	3166.8
35°	2972.2	3038.2	2997.6	3009.4	3023.0
37.5°	2874.0	2894.3	2858.8	2899.4	2921.4
40°	2742.0	2772.5	2758.9	2765.7	2786.0
42.5°	2604.9	2637.0	2601.5	2650.6	2665.8
45°	2449.2	2510.1	2486.4	2506.7	2532.1
47.5°	2347.6	2367.9	2361.2	2373.0	2356.1
50°	2190.2	2210.5	2222.4	2237.6	2244.4
52.5°	2049.7	2065.0	2087.0	2095.4	2110.7
55°	1905.9	1934.6	1929.5	1951.6	1949.9
57.5°	1738.3	1780.6	1767.1	1799.2	1799.2
60°	1609.6	1616.4	1633.3	1648.6	1648.6
62.5°	1460.7	1469.2	1477.6	1491.2	1501.3
65°	1320.2	1320.2	1325.3	1342.2	1325.3
67.5°	1157.7	1151.0	1167.9	1188.2	1186.5
70°	993.5	1002.0	1017.2	1042.6	1042.6
72.5°	853.1	853.1	870.0	883.5	881.8
75°	692.3	704.1	719.3	741.4	734.6
77.5°	548.4	556.9	582.2	602.6	604.3
80°	409.6	418.1	445.1	465.5	460.4
82.5°	286.0	297.9	323.3	338.5	336.8
85°	184.5	187.9	206.5	220.0	221.7
87.5°	84.6	91.4	104.9	110.0	110.0
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P894595
 CATALOG NUMBER: 8TMB-14HL-FLT-UNV-L940

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	20.67	22.31	21.04	22.63	22.94	20.78	22.42	21.14	22.73	23.05
	3H	22.45	23.94	22.83	24.26	24.62	22.62	24.10	22.99	24.43	24.79
	4H	23.12	24.52	23.52	24.86	25.24	23.31	24.71	23.71	25.06	25.43
	6H	23.59	24.89	24.00	25.25	25.64	23.86	25.16	24.27	25.52	25.91
	8H	23.74	24.98	24.17	25.37	25.77	24.05	25.29	24.48	25.68	26.08
	12H	23.85	25.03	24.28	25.42	25.85	24.20	25.38	24.63	25.77	26.19
4H	2H	21.32	22.72	21.72	23.06	23.44	21.40	22.80	21.80	23.15	23.52
	3H	23.32	24.49	23.73	24.89	25.29	23.47	24.64	23.87	25.04	25.44
	4H	24.11	25.18	24.54	25.59	26.02	24.30	25.37	24.73	25.78	26.21
	6H	24.71	25.64	25.17	26.08	26.54	24.99	25.92	25.45	26.36	26.82
	8H	24.91	25.78	25.37	26.22	26.69	25.24	26.11	25.70	26.55	27.01
	12H	25.06	25.84	25.54	26.32	26.79	25.44	26.22	25.91	26.69	27.16
8H	4H	24.45	25.32	24.91	25.76	26.23	24.62	25.49	25.08	25.93	26.39
	6H	25.17	25.90	25.67	26.38	26.86	25.44	26.16	25.93	26.65	27.13
	8H	25.44	26.10	25.95	26.60	27.09	25.77	26.42	26.28	26.93	27.41
	12H	25.67	26.25	26.18	26.74	27.30	26.06	26.64	26.57	27.13	27.69
12H	4H	24.49	25.28	24.97	25.75	26.22	24.65	25.43	25.13	25.91	26.38
	6H	25.24	25.90	25.75	26.40	26.89	25.50	26.15	26.01	26.66	27.14
	8H	25.58	26.16	26.08	26.65	27.21	25.89	26.47	26.40	26.96	27.52