

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: P894594

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894594
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-L935
Description: 14000 Lumen 8FT MICROBAY LINEAR BAY with FLAT FROSTED LENS, 90CRI, 3500K CCT
Light Source: -
Ballast/Driver: -

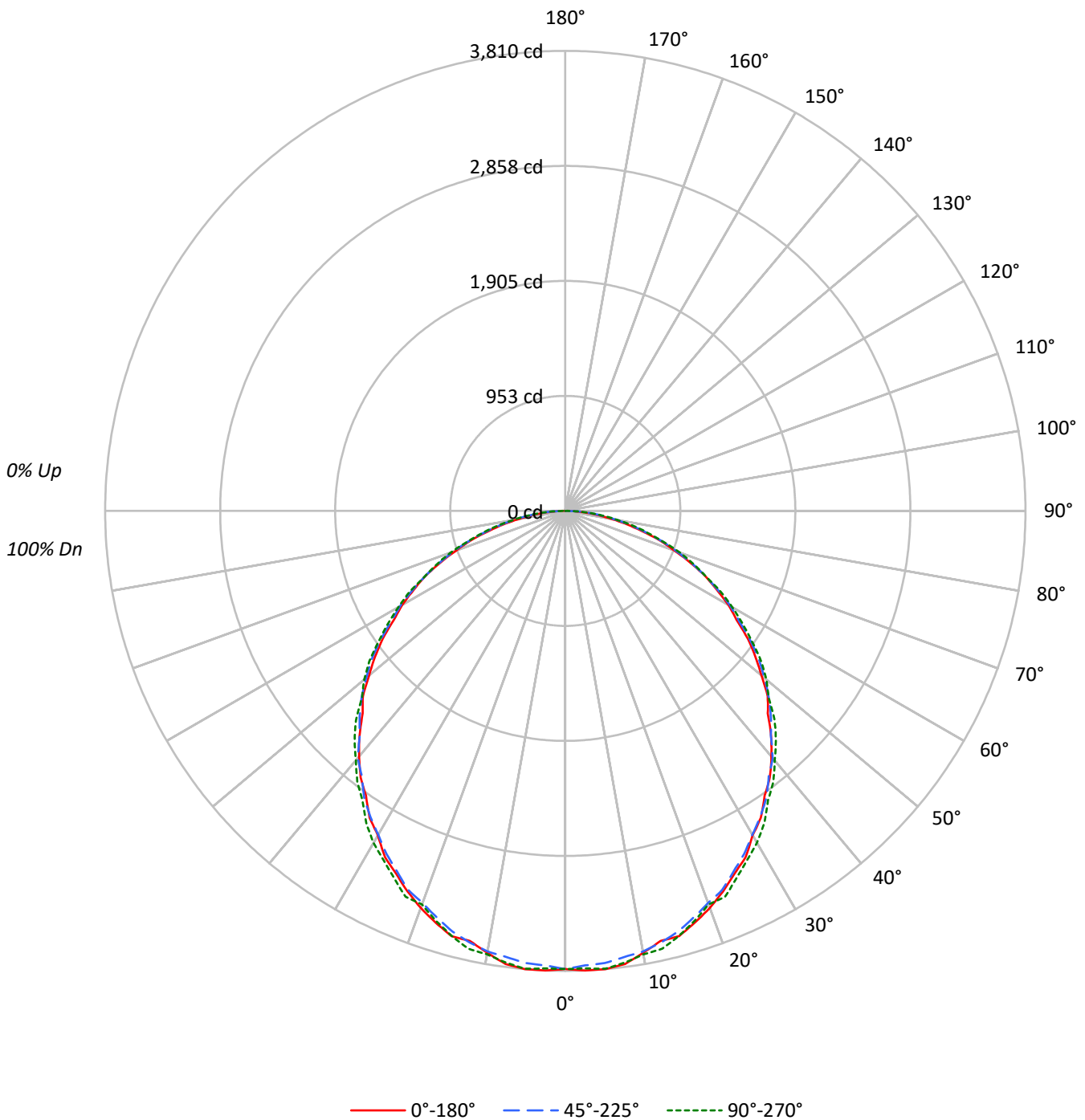
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10512.0 lumens
Efficiency: N/A
Efficacy: 101.5 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°	13461	13461	13461
5°	13571	13390	13559
10°	13385	13350	13438
15°	13388	13250	13376
20°	13211	13050	13100
25°	12973	12902	13133
30°	12710	12690	13006
35°	12465	12571	12678
40°	12297	12372	12494
45°	11899	12080	12302
50°	11706	11877	11995
55°	11415	11557	11679
60°	11060	11222	11327
65°	10732	10773	10773
70°	9980	10217	10473
75°	9189	9548	9750
80°	8104	8807	9109
85°	7271	8138	8740

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 12302 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.1	3.4
10°-20°	1023.4	9.7
20°-30°	1535.0	14.6
30°-40°	1823.1	17.3
40°-50°	1866.6	17.8
50°-60°	1672.3	15.9
60°-70°	1270.4	12.1
70°-80°	739.9	7.0
80°-90°	222.2	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°	2917.5	27.8
0°-40°	4740.5	45.1
0°-60°	8279.4	78.8
0°-90°	10512.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10512.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3794	3794	3794	3794	3794	
5°	3810	3796	3759	3782	3807	361
15°	3645	3669	3607	3622	3641	1023
25°	3314	3343	3296	3338	3355	1529
35°	2878	2942	2902	2914	2927	1809
45°	2371	2430	2407	2427	2452	1844
55°	1845	1873	1868	1890	1888	1644
65°	1278	1278	1283	1300	1283	1255
75°	670	682	696	718	711	714
85°	179	182	200	213	215	200
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3793.8	3793.8	3793.8	3793.8	3793.8
2.5°	3810.2	3792.2	3767.6	3775.8	3792.2
5°	3810.2	3795.5	3759.4	3782.4	3806.9
7.5°	3785.6	3805.3	3726.6	3726.6	3772.5
10°	3715.2	3752.9	3705.3	3700.4	3729.9
12.5°	3648.0	3716.8	3661.1	3677.5	3713.5
15°	3644.7	3669.3	3607.0	3621.7	3641.4
17.5°	3574.2	3598.8	3531.6	3559.5	3559.5
20°	3498.8	3503.8	3456.2	3516.9	3469.3
22.5°	3412.0	3462.8	3397.2	3416.9	3457.9
25°	3313.7	3343.2	3295.6	3338.2	3354.6
27.5°	3233.4	3269.4	3203.9	3254.7	3259.6
30°	3102.2	3141.6	3097.3	3130.1	3174.4
32.5°	3013.8	3026.9	3003.9	3053.1	3066.2
35°	2877.7	2941.6	2902.3	2913.8	2926.9
37.5°	2782.7	2802.3	2767.9	2807.3	2828.6
40°	2654.9	2684.4	2671.2	2677.8	2697.5
42.5°	2522.1	2553.3	2518.8	2566.4	2581.1
45°	2371.3	2430.3	2407.4	2427.1	2451.6
47.5°	2273.0	2292.7	2286.1	2297.6	2281.2
50°	2120.6	2140.3	2151.7	2166.5	2173.0
52.5°	1984.6	1999.3	2020.6	2028.8	2043.6
55°	1845.3	1873.1	1868.2	1889.5	1887.9
57.5°	1683.0	1724.0	1710.9	1742.0	1742.0
60°	1558.5	1565.1	1581.4	1596.2	1596.2
62.5°	1414.3	1422.5	1430.7	1443.8	1453.6
65°	1278.3	1278.3	1283.2	1299.6	1283.2
67.5°	1120.9	1114.4	1130.8	1150.4	1148.8
70°	962.0	970.2	984.9	1009.5	1009.5
72.5°	826.0	826.0	842.3	855.5	853.8
75°	670.3	681.7	696.5	717.8	711.2
77.5°	531.0	539.2	563.7	583.4	585.1
80°	396.6	404.8	431.0	450.7	445.8
82.5°	277.0	288.4	313.0	327.8	326.1
85°	178.6	181.9	199.9	213.0	214.7
87.5°	81.9	88.5	101.6	106.5	106.5
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	20.56	22.20	20.93	22.51	22.83	20.67	22.30	21.03	22.62	22.93
	3H	22.34	23.82	22.72	24.15	24.51	22.50	23.99	22.88	24.31	24.67
	4H	23.01	24.40	23.40	24.75	25.13	23.20	24.60	23.60	24.95	25.32
	6H	23.48	24.78	23.89	25.14	25.53	23.75	25.05	24.16	25.41	25.80
	8H	23.63	24.87	24.05	25.26	25.66	23.94	25.18	24.37	25.57	25.97
	12H	23.74	24.92	24.17	25.30	25.73	24.08	25.27	24.51	25.65	26.08
4H	2H	21.21	22.60	21.60	22.95	23.33	21.29	22.69	21.69	23.03	23.41
	3H	23.21	24.38	23.62	24.78	25.18	23.35	24.53	23.76	24.92	25.32
	4H	24.00	25.06	24.43	25.48	25.91	24.19	25.25	24.62	25.67	26.10
	6H	24.60	25.53	25.05	25.97	26.43	24.88	25.81	25.33	26.25	26.70
	8H	24.80	25.67	25.26	26.11	26.57	25.13	26.00	25.58	26.44	26.90
	12H	24.95	25.73	25.43	26.21	26.68	25.32	26.11	25.80	26.58	27.05
8H	4H	24.34	25.21	24.80	25.65	26.11	24.50	25.37	24.96	25.82	26.28
	6H	25.06	25.79	25.55	26.27	26.75	25.33	26.05	25.82	26.54	27.01
	8H	25.33	25.98	25.84	26.49	26.97	25.66	26.31	26.17	26.82	27.30
	12H	25.56	26.14	26.07	26.63	27.19	25.95	26.53	26.46	27.02	27.58
12H	4H	24.38	25.16	24.86	25.64	26.11	24.54	25.32	25.02	25.80	26.26
	6H	25.13	25.78	25.64	26.29	26.78	25.39	26.04	25.89	26.54	27.03
	8H	25.47	26.04	25.97	26.53	27.09	25.78	26.36	26.29	26.85	27.41