

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: P894786

Luminaire Tested: 8TMB-18HL-FLT-UNV-L935

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894786
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-18HL-FLT-UNV-L935
Description: 18000 Lumen 8FT MICROBAY LINEAR BAY with FLAT FROSTED LENS, 90CRI, 3500K CCT
Light Source: -
Ballast/Driver: -

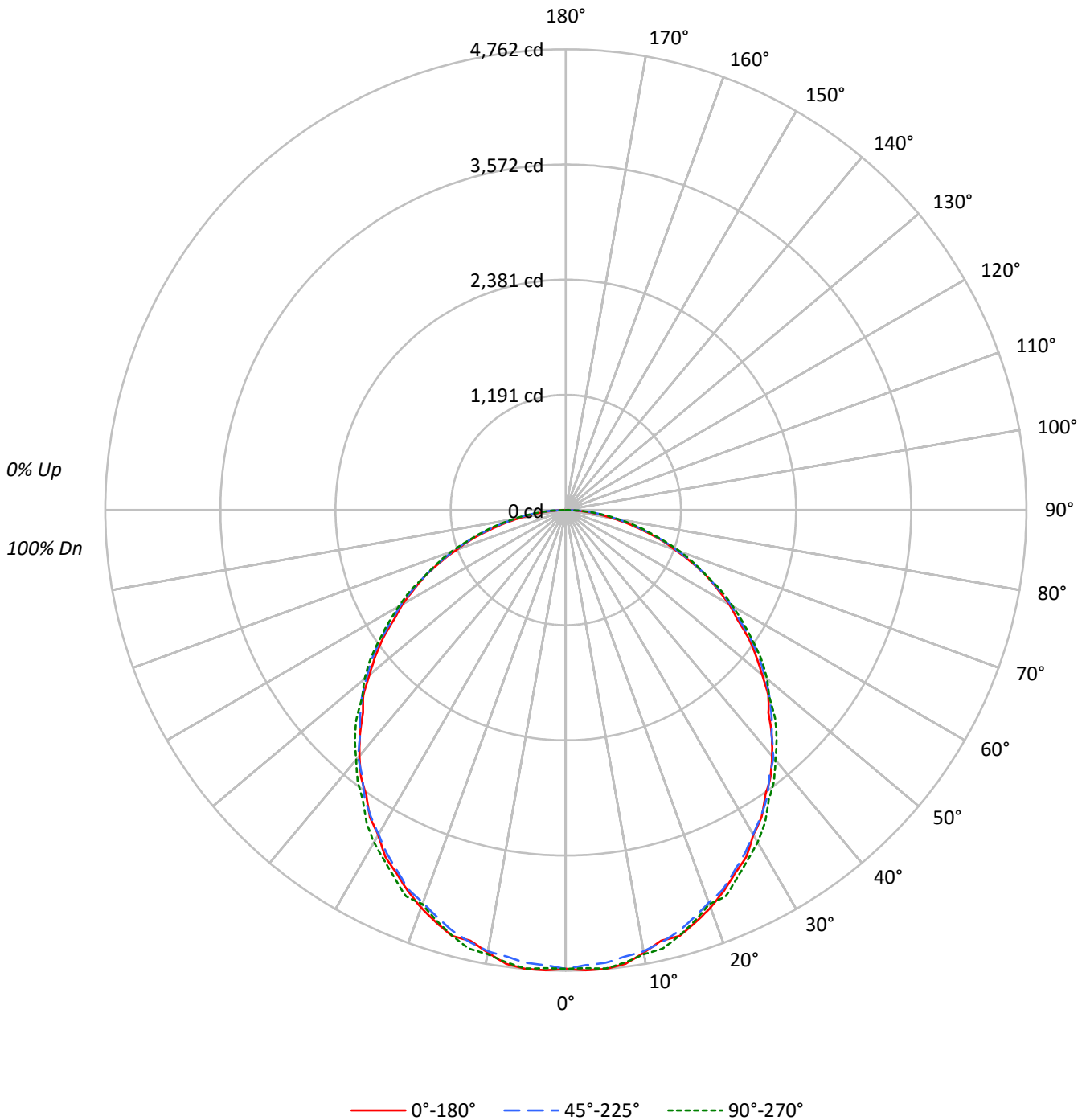
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13138.0 lumens
Efficiency: N/A
Efficacy: 97.5 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): 134.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 8.62
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°	16824	16824	16824
5°	16961	16735	16946
10°	16729	16685	16796
15°	16733	16560	16718
20°	16511	16310	16372
25°	16213	16125	16414
30°	15885	15860	16254
35°	15579	15712	15845
40°	15369	15463	15615
45°	14871	15098	15375
50°	14630	14845	14992
55°	14267	14444	14596
60°	13822	14026	14156
65°	13413	13464	13464
70°	12473	12770	13089
75°	11484	11934	12186
80°	10129	11007	11383
85°	9091	10174	10923

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 15375 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	448.8	3.4
10°-20°	1279.1	9.7
20°-30°	1918.4	14.6
30°-40°	2278.5	17.3
40°-50°	2332.9	17.8
50°-60°	2090.1	15.9
60°-70°	1587.8	12.1
70°-80°	924.8	7.0
80°-90°	277.7	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°	3646.3	27.8
0°-40°	5924.8	45.1
0°-60°	10347.7	78.8
0°-90°	13138.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13138.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4742	4742	4742	4742	4742	
5°	4762	4744	4698	4727	4758	451
15°	4555	4586	4508	4526	4551	1279
25°	4141	4178	4119	4172	4193	1911
35°	3597	3676	3627	3642	3658	2261
45°	2964	3038	3009	3033	3064	2305
55°	2306	2341	2335	2362	2360	2055
65°	1598	1598	1604	1624	1604	1569
75°	838	852	870	897	889	892
85°	223	227	250	266	268	250
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4741.6	4741.6	4741.6	4741.6	4741.6
2.5°	4762.0	4739.5	4708.8	4719.0	4739.5
5°	4762.0	4743.6	4698.5	4727.2	4757.9
7.5°	4731.3	4755.9	4657.6	4657.6	4714.9
10°	4643.2	4690.4	4631.0	4624.8	4661.7
12.5°	4559.3	4645.3	4575.7	4596.1	4641.2
15°	4555.2	4585.9	4508.1	4526.5	4551.1
17.5°	4467.1	4497.8	4413.8	4448.7	4448.7
20°	4372.9	4379.0	4319.6	4395.4	4336.0
22.5°	4264.3	4327.8	4245.9	4270.5	4321.7
25°	4141.4	4178.3	4118.9	4172.2	4192.6
27.5°	4041.1	4086.1	4004.2	4067.7	4073.8
30°	3877.2	3926.4	3871.1	3912.0	3967.3
32.5°	3766.6	3783.0	3754.3	3815.8	3832.2
35°	3596.6	3676.5	3627.3	3641.7	3658.1
37.5°	3477.8	3502.4	3459.4	3508.5	3535.2
40°	3318.1	3354.9	3338.5	3346.7	3371.3
42.5°	3152.2	3191.1	3148.1	3207.5	3225.9
45°	2963.7	3037.5	3008.8	3033.4	3064.1
47.5°	2840.8	2865.4	2857.2	2871.6	2851.1
50°	2650.4	2674.9	2689.3	2707.7	2715.9
52.5°	2480.4	2498.8	2525.4	2535.7	2554.1
55°	2306.3	2341.1	2334.9	2361.6	2359.5
57.5°	2103.5	2154.7	2138.3	2177.2	2177.2
60°	1947.8	1956.0	1976.5	1994.9	1994.9
62.5°	1767.6	1777.8	1788.1	1804.5	1816.7
65°	1597.6	1597.6	1603.7	1624.2	1603.7
67.5°	1401.0	1392.8	1413.3	1437.8	1435.8
70°	1202.3	1212.5	1231.0	1261.7	1261.7
72.5°	1032.3	1032.3	1052.8	1069.2	1067.1
75°	837.7	852.0	870.5	897.1	888.9
77.5°	663.6	673.9	704.6	729.2	731.2
80°	495.7	505.9	538.7	563.3	557.1
82.5°	346.1	360.5	391.2	409.6	407.6
85°	223.3	227.3	249.9	266.3	268.3
87.5°	102.4	110.6	127.0	133.1	133.1
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	21.34	22.97	21.70	23.29	23.60	21.44	23.08	21.81	23.39	23.71
	3H	23.12	24.60	23.49	24.93	25.29	23.28	24.76	23.66	25.09	25.45
	4H	23.78	25.18	24.18	25.53	25.90	23.98	25.37	24.37	25.72	26.10
	6H	24.25	25.55	24.67	25.91	26.31	24.53	25.82	24.94	26.19	26.58
	8H	24.40	25.64	24.83	26.03	26.43	24.72	25.95	25.14	26.34	26.74
	12H	24.51	25.70	24.94	26.08	26.51	24.86	26.05	25.29	26.43	26.86
4H	2H	21.98	23.38	22.38	23.73	24.10	22.06	23.46	22.46	23.81	24.18
	3H	23.98	25.16	24.39	25.55	25.95	24.13	25.30	24.54	25.70	26.10
	4H	24.78	25.84	25.21	26.25	26.69	24.97	26.03	25.40	26.44	26.88
	6H	25.37	26.30	25.83	26.74	27.20	25.65	26.58	26.11	27.02	27.48
	8H	25.57	26.44	26.03	26.88	27.35	25.90	26.77	26.36	27.21	27.68
	12H	25.72	26.51	26.20	26.98	27.45	26.10	26.88	26.58	27.36	27.82
8H	4H	25.11	25.98	25.57	26.42	26.89	25.28	26.15	25.74	26.59	27.06
	6H	25.83	26.56	26.33	27.05	27.52	26.10	26.83	26.59	27.31	27.79
	8H	26.11	26.76	26.61	27.26	27.75	26.43	27.09	26.94	27.59	28.08
	12H	26.33	26.91	26.84	27.40	27.96	26.72	27.30	27.23	27.79	28.35
12H	4H	25.15	25.94	25.63	26.41	26.88	25.31	26.10	25.79	26.57	27.04
	6H	25.91	26.56	26.42	27.07	27.55	26.16	26.81	26.67	27.32	27.80
	8H	26.24	26.82	26.75	27.31	27.87	26.56	27.13	27.06	27.62	28.18