

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: P978850

Luminaire Tested: UHBS2-1218-M-L83065-HIGH-6500K

Issue Date: 3/27/2025

Test Information

Test Method: LM-79-2019
Report Number: P978850
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2405-087-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/27/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: UHBS2-1218-M-L83065-HIGH-6500K
Description: UHBS2 LED High Bay at 6500K and HIGH lumen setting
Light Source: -
Ballast/Driver: -

Summary

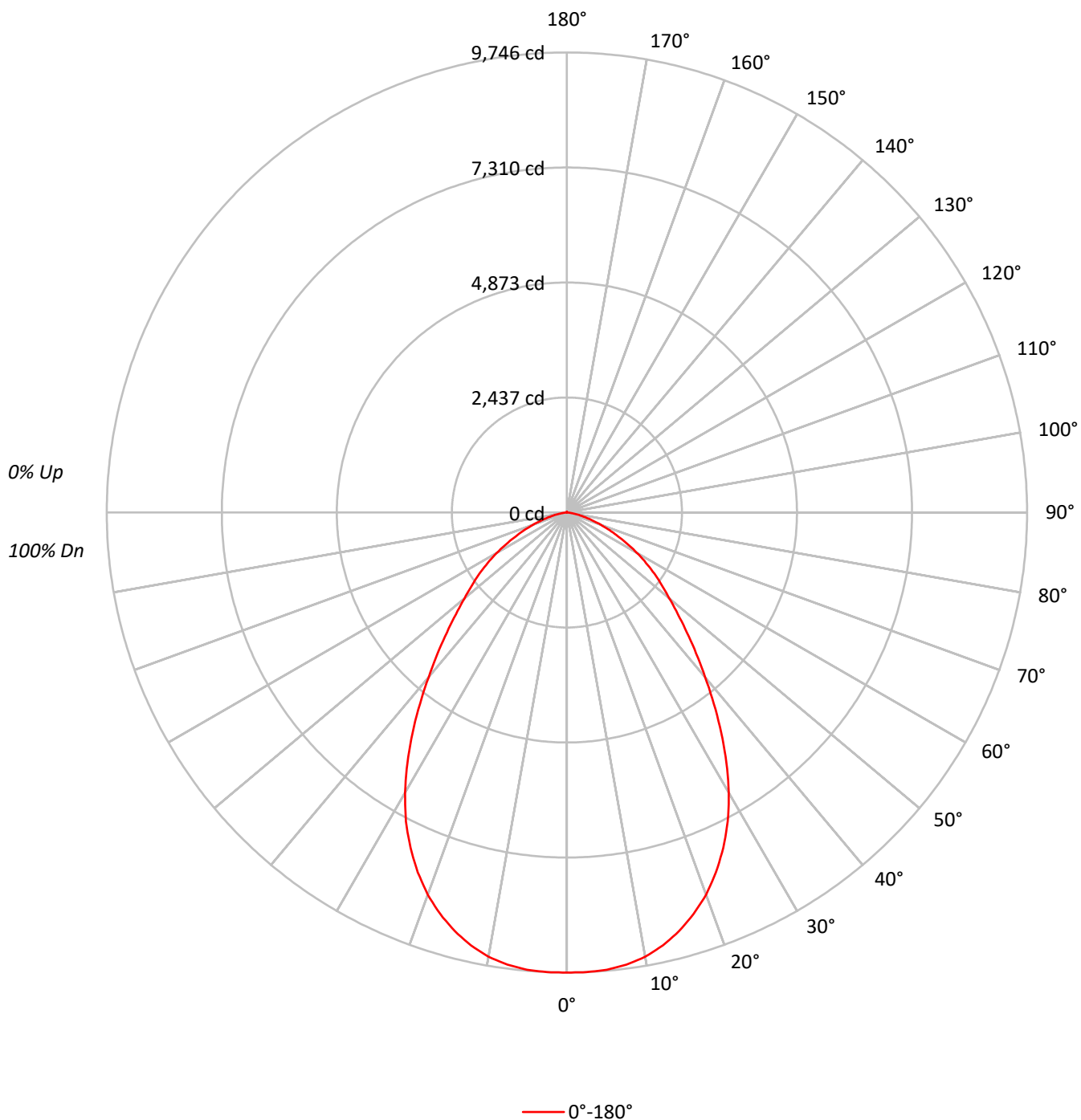
Lumens per Lamp: N/A
Luminaire Lumens: 17213.8 lumens
Efficiency: N/A
Efficacy: 141.0 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.11
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.1')
CIE Type: Direct

Input Watts (W): 122.1
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 6.9
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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	107	104	101	108	105	102	99	101	98	96		97	95	93		93
2	103	96	90	86	100	94	89	85	91	86	83		88	84	81		85
3	95	86	79	74	93	85	78	73	82	77	72		79	75	71		77
4	88	78	70	65	86	77	70	64	74	68	63		72	67	63		70
5	82	71	63	57	80	70	62	57	68	61	56		66	60	56		64
6	76	65	57	51	75	64	56	51	62	56	51		61	55	50		59
7	71	59	52	46	70	59	51	46	57	51	46		56	50	45		55
8	67	55	47	42	66	54	47	42	53	46	42		52	46	41		51
9	63	51	43	38	62	50	43	38	49	43	38		48	42	38		47
10	59	47	40	35	58	47	40	35	46	39	35		45	39	35		44

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	133573
5°	132277
10°	130092
15°	125952
20°	120097
25°	111851
30°	101073
35°	87547
40°	73592
45°	61739
50°	52404
55°	45698
60°	38524
65°	30400
70°	22927
75°	15166
80°	8323
85°	3273

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 61739 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	922.8	5.4
10°-20°	2578.6	15.0
20°-30°	3586.8	20.8
30°-40°	3553.1	20.6
40°-50°	2793.2	16.2
50°-60°	2021.8	11.7
60°-70°	1200.9	7.0
70°-80°	466.9	2.7
80°-90°	73.5	0.4
90°-100°	2.2	0.0
100°-110°	1.4	0.0
110°-120°	1.3	0.0
120°-130°	1.3	0.0
130°-140°	2.1	0.0
140°-150°	2.4	0.0
150°-160°	2.6	0.0
160°-170°	2.1	0.0
170°-180°	0.8	0.0
0°-30°	7088.2	41.2
0°-40°	10641.3	61.8
0°-60°	15456.4	89.8
0°-90°	17197.6	99.9
90°-120°	4.8	0.0
90°-150°	10.6	0.1
90°-180°	16.0	0.1
0°-180°	17213.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9746	
5°	9722	923
15°	9180	2579
25°	7836	3587
35°	5699	3553
45°	3591	2793
55°	2260	2022
65°	1193	1201
75°	422	467
85°	51	70
90°	7	5
95°	1	1
105°	1	1
115°	1	1
125°	1	1
135°	3	2
145°	4	2
155°	5	3
165°	8	2
175°	9	1
180°	9	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	9746.3
2.5°	9746.3
5°	9722.1
7.5°	9661.5
10°	9557.9
12.5°	9391.1
15°	9179.9
17.5°	8920.2
20°	8616.1
22.5°	8250.2
25°	7835.8
27.5°	7379.7
30°	6856.3
32.5°	6289.9
35°	5699.2
37.5°	5111.3
40°	4552.9
42.5°	4052.4
45°	3591.0
47.5°	3186.0
50°	2830.8
52.5°	2534.8
55°	2260.3
57.5°	1988.5
60°	1715.4
62.5°	1445.0
65°	1193.4
67.5°	980.8
70°	772.3
72.5°	585.3
75°	422.5
77.5°	289.3
80°	181.6
82.5°	103.6
85°	51.1
87.5°	21.5
90°	6.7
92.5°	1.3
95°	1.3
97.5°	1.3
100°	1.3
102.5°	1.3
105°	1.3
107.5°	1.3
110°	1.3



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	1.3
115°	1.3
117.5°	1.3
120°	1.3
122.5°	1.3
125°	1.3
127.5°	1.3
130°	2.7
132.5°	2.7
135°	2.7
137.5°	2.7
140°	2.7
142.5°	4.0
145°	4.0
147.5°	4.0
150°	4.0
152.5°	5.4
155°	5.4
157.5°	6.7
160°	6.7
162.5°	6.7
165°	8.1
167.5°	8.1
170°	8.1
172.5°	8.1
175°	9.4
177.5°	9.4
180°	9.4

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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	24.04	25.45	24.41	25.76	26.08	24.04	25.45	24.41	25.76	26.08
	3H	24.96	26.22	25.34	26.55	26.91	24.96	26.22	25.34	26.55	26.91
	4H	25.15	26.33	25.56	26.68	27.06	25.15	26.33	25.56	26.68	27.06
	6H	25.20	26.28	25.62	26.65	27.05	25.20	26.28	25.62	26.65	27.05
	8H	25.19	26.21	25.62	26.60	27.01	25.19	26.21	25.62	26.60	27.01
	12H	25.16	26.14	25.59	26.52	26.95	25.16	26.14	25.59	26.52	26.95
4H	2H	24.35	25.52	24.75	25.88	26.26	24.35	25.52	24.75	25.88	26.26
	3H	25.41	26.37	25.82	26.78	27.18	25.41	26.37	25.82	26.78	27.18
	4H	25.66	26.52	26.09	26.94	27.38	25.66	26.52	26.09	26.94	27.38
	6H	25.75	26.49	26.21	26.94	27.40	25.75	26.49	26.21	26.94	27.40
	8H	25.73	26.43	26.20	26.87	27.35	25.73	26.43	26.20	26.87	27.35
	12H	25.71	26.32	26.19	26.81	27.28	25.71	26.32	26.19	26.81	27.28
8H	4H	25.68	26.38	26.15	26.83	27.30	25.68	26.38	26.15	26.83	27.30
	6H	25.79	26.36	26.29	26.86	27.34	25.79	26.36	26.29	26.86	27.34
	8H	25.78	26.29	26.30	26.81	27.30	25.78	26.29	26.30	26.81	27.30
	12H	25.77	26.22	26.28	26.71	27.28	25.77	26.22	26.28	26.71	27.28
12H	4H	25.65	26.27	26.14	26.75	27.23	25.65	26.27	26.14	26.75	27.23
	6H	25.75	26.26	26.27	26.78	27.27	25.75	26.26	26.27	26.78	27.27
	8H	25.77	26.21	26.28	26.71	27.28	25.77	26.21	26.28	26.71	27.28