

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: P978847

Luminaire Tested: UHBS2-1218-M-L83065-HIGH-3500K

Issue Date: 3/27/2025

Test Information

Test Method: LM-79-2019
Report Number: P978847
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-3500K
Description: UHBS2 LED High Bay at 3500K and HIGH lumen setting
Light Source: -
Ballast/Driver: -

Summary

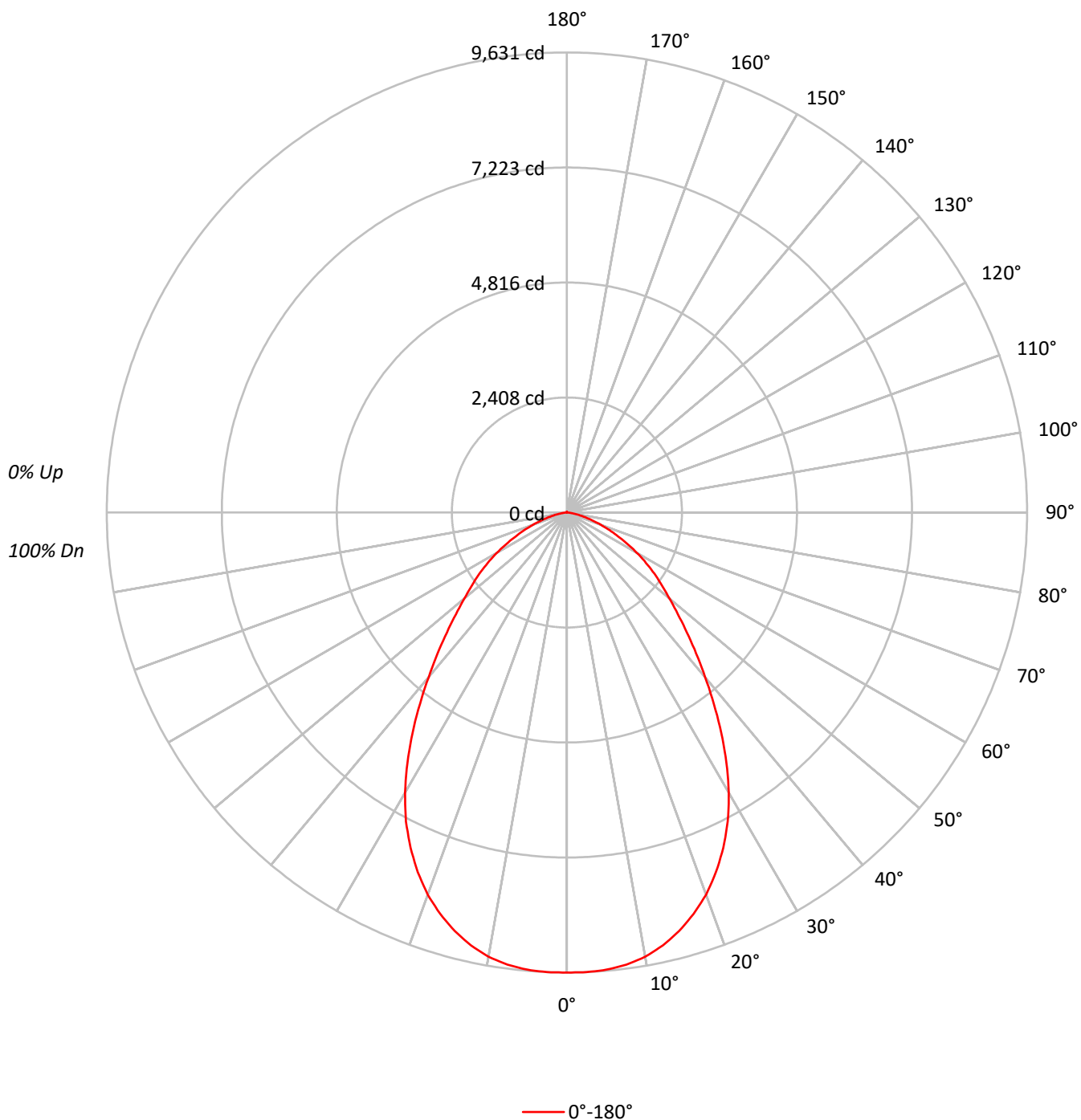
Lumens per Lamp: N/A
Luminaire Lumens: 17009.9 lumens
Efficiency: N/A
Efficacy: 141.2 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.11
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.1')
CIE Type: Direct

Input Watts (W): 120.5
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°	131991
5°	130710
10°	128551
15°	124459
20°	118674
25°	110525
30°	99876
35°	86510
40°	72721
45°	61007
50°	51782
55°	45156
60°	38068
65°	30041
70°	22653
75°	14986
80°	8227
85°	3234

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 61007 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	911.9	5.4
10°-20°	2548.0	15.0
20°-30°	3544.3	20.8
30°-40°	3511.0	20.6
40°-50°	2760.1	16.2
50°-60°	1997.9	11.7
60°-70°	1186.6	7.0
70°-80°	461.3	2.7
80°-90°	72.7	0.4
90°-100°	2.1	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°	7004.2	41.2
0°-40°	10515.2	61.8
0°-60°	15273.2	89.8
0°-90°	16993.8	99.9
90°-120°	4.8	0.0
90°-150°	10.6	0.1
90°-180°	16.0	0.1
0°-180°	17009.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9631	
5°	9607	912
15°	9071	2548
25°	7743	3544
35°	5632	3511
45°	3548	2760
55°	2234	1998
65°	1179	1187
75°	418	461
85°	50	69
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°	9630.8
2.5°	9630.8
5°	9606.9
7.5°	9547.0
10°	9444.7
12.5°	9279.8
15°	9071.1
17.5°	8814.5
20°	8514.0
22.5°	8152.4
25°	7742.9
27.5°	7292.2
30°	6775.1
32.5°	6215.3
35°	5631.7
37.5°	5050.7
40°	4499.0
42.5°	4004.4
45°	3548.4
47.5°	3148.2
50°	2797.2
52.5°	2504.7
55°	2233.5
57.5°	1965.0
60°	1695.1
62.5°	1427.9
65°	1179.3
67.5°	969.2
70°	763.1
72.5°	578.3
75°	417.5
77.5°	285.8
80°	179.5
82.5°	102.4
85°	50.5
87.5°	21.3
90°	6.6
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°	5.3
155°	5.3
157.5°	6.6
160°	6.6
162.5°	6.6
165°	8.0
167.5°	8.0
170°	8.0
172.5°	8.0
175°	9.3
177.5°	9.3
180°	9.3

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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	24.00	25.41	24.36	25.72	26.04	24.00	25.41	24.36	25.72	26.04
	3H	24.92	26.17	25.30	26.51	26.87	24.92	26.17	25.30	26.51	26.87
	4H	25.11	26.28	25.52	26.64	27.02	25.11	26.28	25.52	26.64	27.02
	6H	25.16	26.24	25.58	26.61	27.01	25.16	26.24	25.58	26.61	27.01
	8H	25.14	26.17	25.57	26.56	26.97	25.14	26.17	25.57	26.56	26.97
	12H	25.12	26.10	25.55	26.48	26.91	25.12	26.10	25.55	26.48	26.91
4H	2H	24.31	25.48	24.71	25.83	26.22	24.31	25.48	24.71	25.83	26.22
	3H	25.37	26.33	25.78	26.74	27.14	25.37	26.33	25.78	26.74	27.14
	4H	25.61	26.48	26.05	26.90	27.34	25.61	26.48	26.05	26.90	27.34
	6H	25.71	26.45	26.17	26.90	27.36	25.71	26.45	26.17	26.90	27.36
	8H	25.69	26.38	26.16	26.83	27.30	25.69	26.38	26.16	26.83	27.30
	12H	25.66	26.28	26.15	26.76	27.24	25.66	26.28	26.15	26.76	27.24
8H	4H	25.64	26.34	26.11	26.79	27.26	25.64	26.34	26.11	26.79	27.26
	6H	25.75	26.32	26.25	26.81	27.30	25.75	26.32	26.25	26.81	27.30
	8H	25.74	26.25	26.26	26.76	27.26	25.74	26.25	26.26	26.76	27.26
	12H	25.73	26.17	26.24	26.67	27.24	25.73	26.17	26.24	26.67	27.24
12H	4H	25.61	26.23	26.10	26.71	27.19	25.61	26.23	26.10	26.71	27.19
	6H	25.71	26.22	26.23	26.73	27.23	25.71	26.22	26.23	26.73	27.23
	8H	25.72	26.17	26.24	26.67	27.24	25.72	26.17	26.24	26.67	27.24