

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: P1175786

Luminaire Tested: UHBS2-1218-N-L83065-HIGH-6500K-CLR6

Issue Date: 8/26/2025

**Test Information**

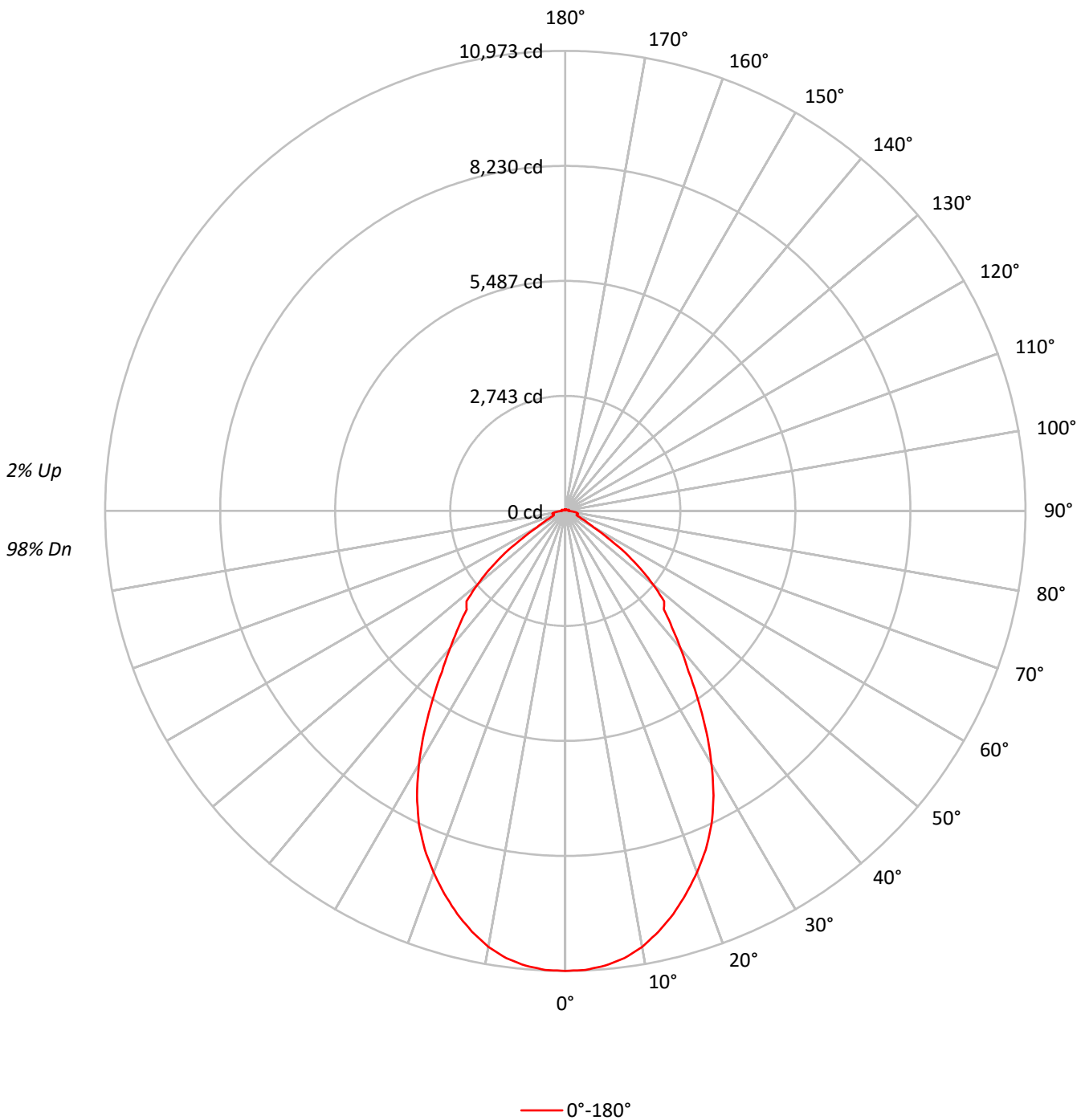
Test Method: LM-79-2019  
Report Number: P1175786  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2505-439-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/26/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: UHBS2-1218-N-L83065-HIGH-6500K-CLR6  
Description: UHBS2 LED High Bay at 6500K and HIGH lumen setting 6in Deep Clear Refractor  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16550.0 lumens  
Efficiency: N/A  
Efficacy: 135.5 lumens/watt  
Spacing Criteria (0/90/45): 1.02 / 1.02 / 1.03  
Luminous Opening: Vertical Cylinder (Dia: 1.3' x H: 0.5')  
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			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	110	110	110	105	105	105	100	100	100	98			98
1	111	107	104	101	108	105	102	99	100	98	96	96	94	92	92	91	89	87			87
2	103	97	92	87	101	95	90	86	91	87	84	88	85	82	85	82	80	78			78
3	96	88	82	77	94	86	81	76	83	78	74	81	76	73	78	74	71	69			69
4	90	80	73	68	88	79	72	67	76	71	66	74	69	65	72	68	64	62			62
5	84	73	66	61	82	72	65	60	70	64	60	68	63	59	66	62	58	56			56
6	79	67	60	55	77	67	60	54	65	58	54	63	57	53	61	56	53	51			51
7	74	62	55	50	72	61	54	49	60	54	49	58	53	49	57	52	48	46			46
8	69	58	50	45	68	57	50	45	56	49	45	54	49	45	53	48	44	42			42
9	65	54	46	42	64	53	46	42	52	46	41	51	45	41	50	44	41	39			39
10	62	50	43	38	60	49	43	38	48	42	38	47	42	38	46	41	38	36			36

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	88850
5°	84877
10°	79907
15°	73757
20°	67127
25°	60025
30°	50849
35°	40715
40°	31958
45°	25575
50°	21731
55°	14583
60°	6801
65°	3887
70°	2893
75°	3386
80°	3641
85°	2528

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 25575 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1029.1	6.2
10°-20°	2791.7	16.9
20°-30°	3757.9	22.7
30°-40°	3460.1	20.9
40°-50°	2654.2	16.0
50°-60°	1545.3	9.3
60°-70°	452.0	2.7
70°-80°	317.9	1.9
80°-90°	199.0	1.2
90°-100°	83.8	0.5
100°-110°	93.5	0.6
110°-120°	63.2	0.4
120°-130°	35.9	0.2
130°-140°	23.3	0.1
140°-150°	19.8	0.1
150°-160°	14.6	0.1
160°-170°	7.0	0.0
170°-180°	1.8	0.0
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0°-30°	7578.6	45.8
0°-40°	11038.8	66.7
0°-60°	15238.3	92.1
0°-90°	16207.2	97.9
90°-120°	240.4	1.5
90°-150°	319.5	1.9
90°-180°	343.0	2.1
0°-180°	16550.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	10973	
5°	10890	###
15°	9952	2792
25°	8252	3758
35°	5530	3460
45°	3326	2654
55°	1755	1545
65°	416	452
75°	306	318
85°	179	172
90°	79	48
95°	72	63
105°	92	93
115°	63	63
125°	39	36
135°	29	23
145°	32	20
155°	32	15
165°	24	7
175°	18	2
180°	17	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	10973.1
2.5°	10957.8
5°	10889.6
7.5°	10763.1
10°	10557.3
12.5°	10277.8
15°	9952.4
17.5°	9578.3
20°	9177.8
22.5°	8746.7
25°	8251.7
27.5°	7656.5
30°	6975.1
32.5°	6267.3
35°	5530.3
37.5°	4830.9
40°	4264.9
42.5°	3764.3
45°	3326.3
47.5°	3195.5
50°	2731.1
52.5°	2254.1
55°	1754.9
57.5°	1204.2
60°	775.9
62.5°	568.7
65°	415.8
67.5°	318.4
70°	286.5
72.5°	290.6
75°	305.9
77.5°	314.3
80°	294.8
82.5°	244.7
85°	179.4
87.5°	119.6
90°	79.3
92.5°	70.9
95°	72.3
97.5°	80.7
100°	87.6
102.5°	91.8
105°	91.8
107.5°	86.2
110°	79.3



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	70.9
115°	62.6
117.5°	55.6
120°	50.1
122.5°	44.5
125°	38.9
127.5°	34.8
130°	32.0
132.5°	30.6
135°	29.2
137.5°	29.2
140°	30.6
142.5°	30.6
145°	32.0
147.5°	32.0
150°	33.4
152.5°	33.4
155°	32.0
157.5°	29.2
160°	27.8
162.5°	26.4
165°	23.6
167.5°	22.2
170°	20.9
172.5°	19.5
175°	18.1
177.5°	16.7
180°	16.7

(END OF REPORT)