

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: P1175770

Luminaire Tested: UHBS2-1218-M-L83065-HIGH-5000K-CLR6

Issue Date: 8/26/2025

**Test Information**

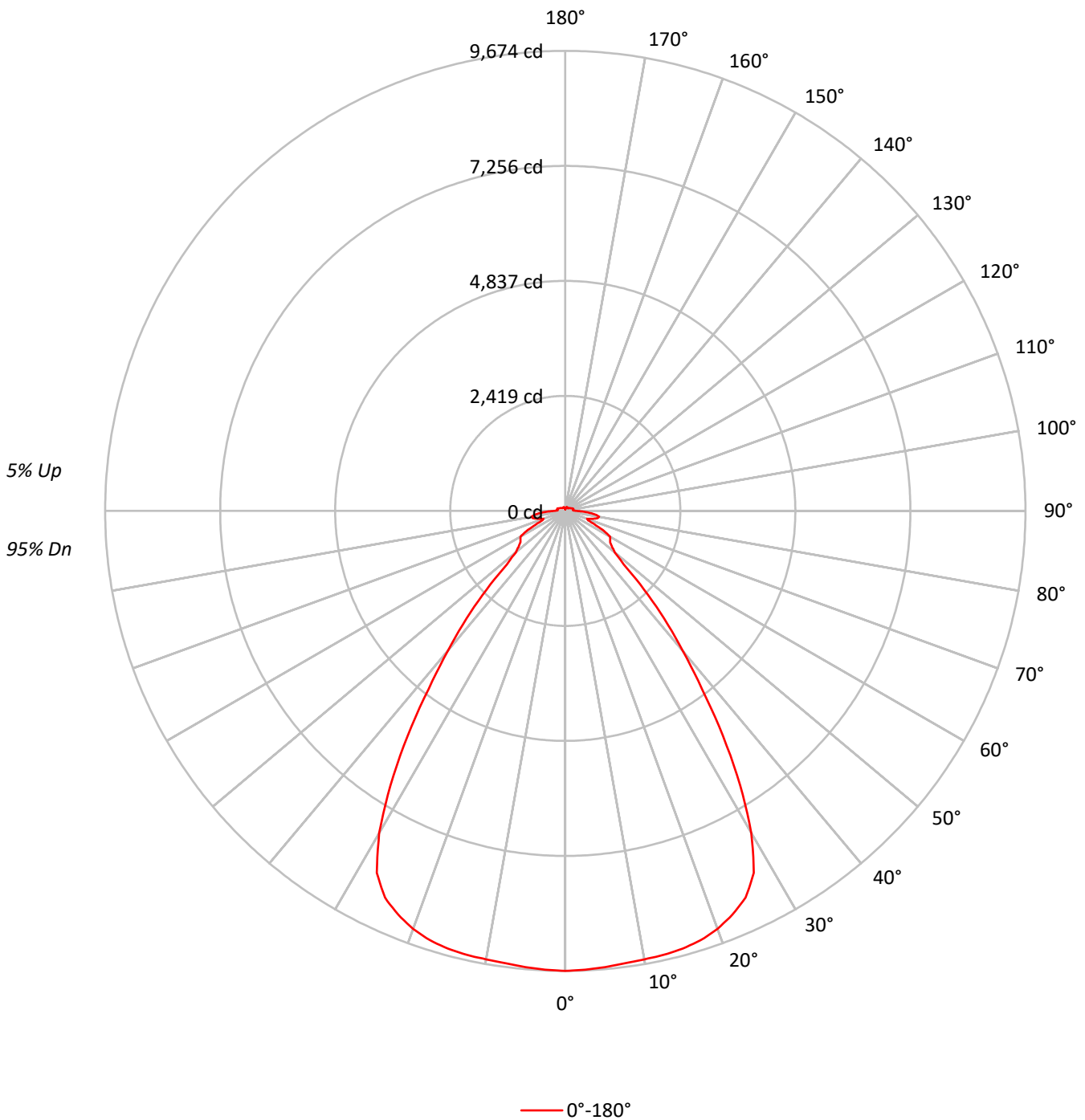
Test Method: LM-79-2019  
Report Number: P1175770  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2505-439-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/26/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: UHBS2-1218-M-L83065-HIGH-5000K-CLR6  
Description: UHBS2 LED High Bay at 5000K and HIGH lumen setting 6in Deep Clear Refractor  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16883.9 lumens  
Efficiency: N/A  
Efficacy: 141.6 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.08  
Luminous Opening: Vertical Cylinder (Dia: 1.3' x H: 0.5')  
CIE Type: Direct  
  
Input Watts (W): 119.2  
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				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	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	98	98	98	95
1	109	105	101	98	106	102	99	96	97	95	92	93	90	88	88	87	85	88	87	85	83
2	101	94	89	84	99	92	87	83	88	84	80	84	81	78	81	78	75	81	78	75	73
3	94	86	79	73	92	84	78	73	80	75	71	77	73	69	74	70	67	74	70	67	65
4	88	78	71	65	86	77	70	64	74	68	63	71	66	62	68	64	61	68	64	61	59
5	82	72	64	58	80	70	63	58	68	62	57	65	60	56	63	59	55	63	59	55	53
6	77	66	58	53	75	65	58	52	63	56	52	61	55	51	59	54	50	59	54	50	48
7	72	61	53	48	71	60	53	48	58	52	47	56	51	47	55	50	46	55	50	46	44
8	68	56	49	44	66	56	49	44	54	48	43	52	47	43	51	46	42	51	46	42	41
9	64	52	45	40	63	52	45	40	50	44	40	49	43	39	48	43	39	48	43	39	37
10	61	49	42	37	59	48	42	37	47	41	37	46	40	37	45	40	36	45	40	36	35

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

	0°
0°	78327
5°	75053
10°	72475
15°	70635
20°	68429
25°	65273
30°	57035
35°	42535
40°	28737
45°	17994
50°	10806
55°	9563
60°	9530
65°	6432
70°	4925
75°	6974
80°	8891
85°	7612

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 17994 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	917.2	5.4
10°-20°	2691.8	15.9
20°-30°	4069.5	24.1
30°-40°	3588.5	21.3
40°-50°	1845.6	10.9
50°-60°	1058.8	6.3
60°-70°	721.4	4.3
70°-80°	657.3	3.9
80°-90°	561.2	3.3
90°-100°	192.4	1.1
100°-110°	178.4	1.1
110°-120°	133.2	0.8
120°-130°	92.7	0.5
130°-140°	63.4	0.4
140°-150°	49.8	0.3
150°-160°	38.6	0.2
160°-170°	19.5	0.1
170°-180°	4.4	0.0
0°-30°	7678.5	45.5
0°-40°	11267.1	66.7
0°-60°	14171.5	83.9
0°-90°	16111.4	95.4
90°-120°	504.0	3.0
90°-150°	710.0	4.2
90°-180°	773.0	4.6
0°-180°	16883.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	9674	
5°	9629	917
15°	9531	2692
25°	8973	4070
35°	5778	3589
45°	2340	1846
55°	1151	1059
65°	688	721
75°	630	657
85°	540	477
90°	239	142
95°	160	135
105°	173	178
115°	133	133
125°	104	93
135°	80	63
145°	79	50
155°	84	39
165°	68	20
175°	43	4
180°	36	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	9673.5
2.5°	9658.3
5°	9629.3
7.5°	9593.4
10°	9575.4
12.5°	9563.0
15°	9531.2
17.5°	9466.3
20°	9355.8
22.5°	9187.2
25°	8973.1
27.5°	8582.1
30°	7823.6
32.5°	6845.5
35°	5777.6
37.5°	4716.6
40°	3835.1
42.5°	3072.5
45°	2340.3
47.5°	1666.1
50°	1358.1
52.5°	1237.9
55°	1150.8
57.5°	1119.0
60°	1087.3
62.5°	928.4
65°	688.0
67.5°	520.8
70°	487.7
72.5°	544.3
75°	630.0
77.5°	703.2
80°	719.8
82.5°	663.1
85°	540.2
87.5°	377.2
90°	239.0
92.5°	178.2
95°	160.3
97.5°	163.0
100°	168.5
102.5°	174.1
105°	172.7
107.5°	165.8
110°	154.7



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	143.7
115°	132.6
117.5°	124.3
120°	116.0
122.5°	110.5
125°	103.6
127.5°	95.3
130°	89.8
132.5°	84.3
135°	80.1
137.5°	78.7
140°	77.4
142.5°	78.7
145°	78.7
147.5°	80.1
150°	82.9
152.5°	84.3
155°	84.3
157.5°	82.9
160°	80.1
162.5°	74.6
165°	67.7
167.5°	60.8
170°	53.9
172.5°	48.4
175°	42.8
177.5°	38.7
180°	35.9

(END OF REPORT)