

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: P1175768

Luminaire Tested: UHBS2-1218-M-L83065-HIGH-3500K-CLR6

Issue Date: 8/26/2025

**Test Information**

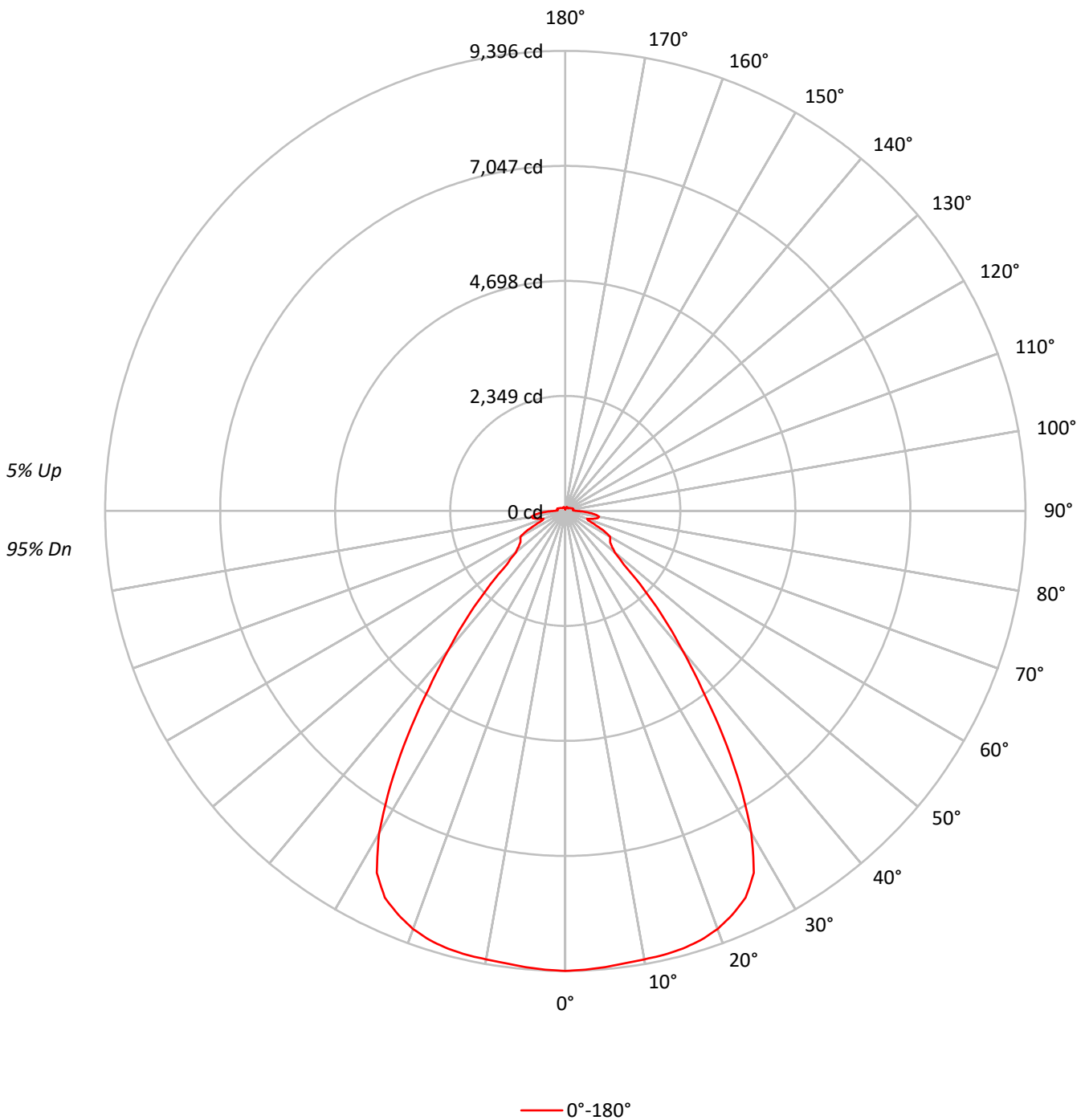
Test Method: LM-79-2019  
Report Number: P1175768  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2505-439-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/26/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: UHBS2-1218-M-L83065-HIGH-3500K-CLR6  
Description: UHBS2 LED High Bay at 3500K and HIGH lumen setting 6in Deep Clear Refractor  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16400.0 lumens  
Efficiency: N/A  
Efficacy: 136.1 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): 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				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°	76081
5°	72902
10°	70397
15°	68611
20°	66467
25°	63402
30°	55400
35°	41316
40°	27914
45°	17478
50°	10496
55°	9289
60°	9257
65°	6248
70°	4783
75°	6773
80°	8635
85°	7394

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 17478 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	891.0	5.4
10°-20°	2614.6	15.9
20°-30°	3952.9	24.1
30°-40°	3485.7	21.3
40°-50°	1792.8	10.9
50°-60°	1028.4	6.3
60°-70°	700.8	4.3
70°-80°	638.4	3.9
80°-90°	545.1	3.3
90°-100°	186.9	1.1
100°-110°	173.2	1.1
110°-120°	129.5	0.8
120°-130°	90.1	0.5
130°-140°	61.6	0.4
140°-150°	48.4	0.3
150°-160°	37.5	0.2
160°-170°	19.0	0.1
170°-180°	4.3	0.0
0°-30°	7458.4	45.5
0°-40°	10944.1	66.7
0°-60°	13765.3	83.9
0°-90°	15649.6	95.4
90°-120°	489.6	3.0
90°-150°	689.7	4.2
90°-180°	750.0	4.6
0°-180°	16400.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	9396	
5°	9353	891
15°	9258	2615
25°	8716	3953
35°	5612	3486
45°	2273	1793
55°	1118	1028
65°	668	701
75°	612	638
85°	525	463
90°	232	138
95°	156	131
105°	168	173
115°	129	129
125°	101	90
135°	78	62
145°	76	48
155°	82	37
165°	66	19
175°	42	4
180°	35	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	9396.2
2.5°	9381.5
5°	9353.3
7.5°	9318.4
10°	9300.9
12.5°	9288.9
15°	9258.0
17.5°	9194.9
20°	9087.6
22.5°	8923.9
25°	8715.9
27.5°	8336.1
30°	7599.4
32.5°	6649.3
35°	5612.0
37.5°	4581.4
40°	3725.2
42.5°	2984.5
45°	2273.2
47.5°	1618.4
50°	1319.1
52.5°	1202.4
55°	1117.8
57.5°	1087.0
60°	1056.1
62.5°	901.8
65°	668.3
67.5°	505.9
70°	473.7
72.5°	528.7
75°	611.9
77.5°	683.0
80°	699.1
82.5°	644.1
85°	524.7
87.5°	366.3
90°	232.2
92.5°	173.1
95°	155.7
97.5°	158.3
100°	163.7
102.5°	169.1
105°	167.7
107.5°	161.0
110°	150.3



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	139.6
115°	128.8
117.5°	120.8
120°	112.7
122.5°	107.4
125°	100.6
127.5°	92.6
130°	87.2
132.5°	81.9
135°	77.8
137.5°	76.5
140°	75.1
142.5°	76.5
145°	76.5
147.5°	77.8
150°	80.5
152.5°	81.9
155°	81.9
157.5°	80.5
160°	77.8
162.5°	72.5
165°	65.8
167.5°	59.0
170°	52.3
172.5°	47.0
175°	41.6
177.5°	37.6
180°	34.9

(END OF REPORT)