

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: P1175843

Luminaire Tested: UHBS2-2436-W-L83065-HIGH-4000K-CLR6

Issue Date: 8/26/2025

**Test Information**

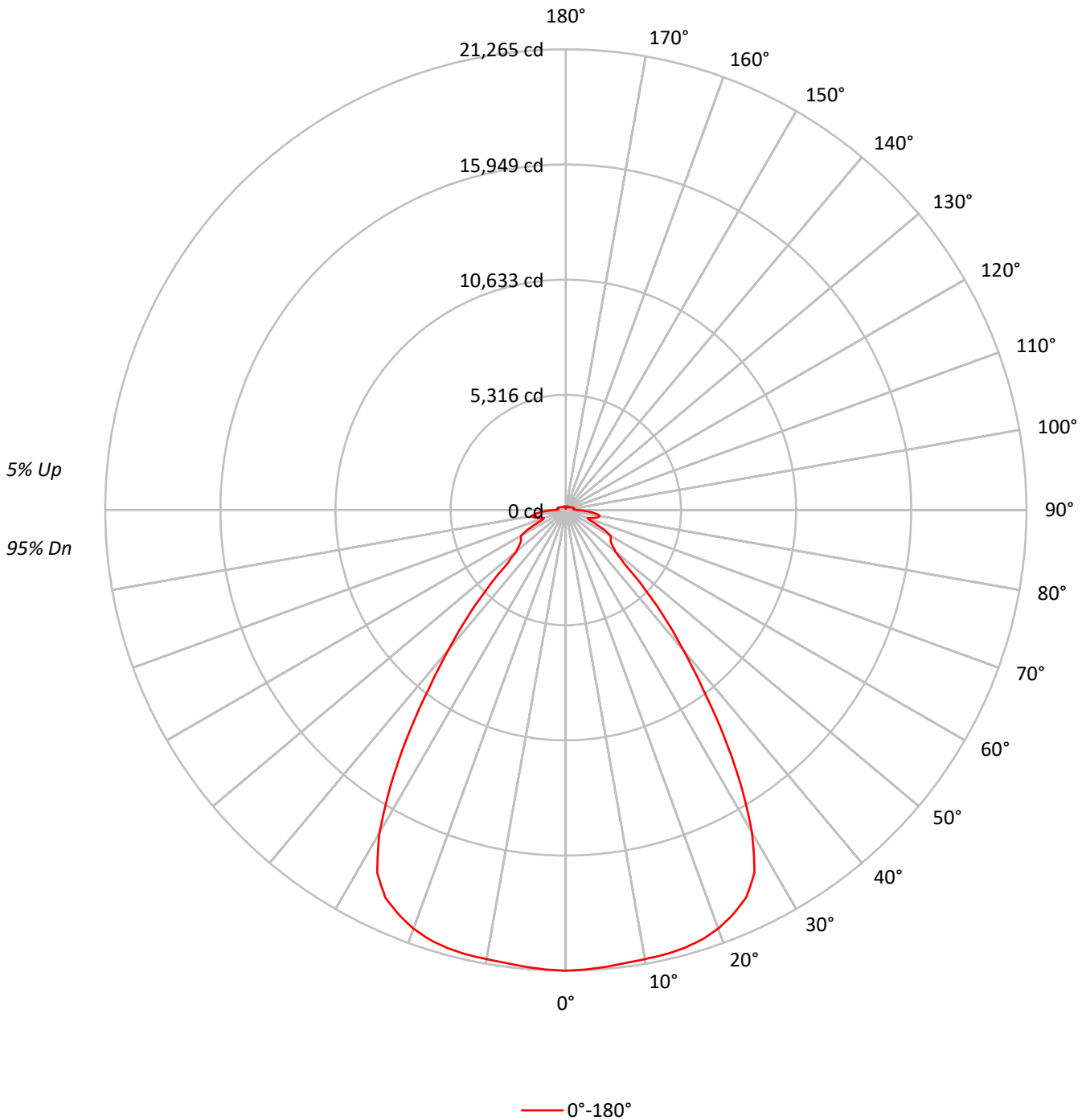
Test Method: LM-79-2019  
Report Number: P1175843  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2505-439-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/26/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: UHBS2-2436-W-L83065-HIGH-4000K-CLR6  
Description: UHBS2 LED High Bay at 4000K and HIGH lumen setting 6in Deep Clear Refractor  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37116.0 lumens  
Efficiency: N/A  
Efficacy: 159.9 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.08  
Luminous Opening: Vertical Cylinder (Dia: 1.47' x H: 0.5')  
CIE Type: Direct  
  
Input Watts (W): 232.1  
Input Voltage (V):  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.999  
Total Harmonic Distortion (THDi): 5.15  
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°	134504
5°	129501
10°	125615
15°	122952
20°	119607
25°	114560
30°	100514
35°	75274
40°	51076
45°	32125
50°	19385
55°	17245
60°	17286
65°	11743
70°	9061
75°	12947
80°	16692
85°	14500

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 32125 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2016.4	5.4
10°-20°	5917.3	15.9
20°-30°	8946.0	24.1
30°-40°	7888.7	21.3
40°-50°	4057.3	10.9
50°-60°	2327.5	6.3
60°-70°	1585.9	4.3
70°-80°	1444.9	3.9
80°-90°	1233.7	3.3
90°-100°	423.0	1.1
100°-110°	392.1	1.1
110°-120°	293.0	0.8
120°-130°	203.9	0.5
130°-140°	139.3	0.4
140°-150°	109.6	0.3
150°-160°	84.8	0.2
160°-170°	42.9	0.1
170°-180°	9.8	0.0
0°-30°	16879.7	45.5
0°-40°	24768.4	66.7
0°-60°	31153.2	83.9
0°-90°	35417.7	95.4
90°-120°	1108.1	3.0
90°-150°	1560.9	4.2
90°-180°	1698.0	4.6
0°-180°	37116.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	21265	
5°	21168	###
15°	20952	5917
25°	19726	8946
35°	12701	7889
45°	5145	4057
55°	2530	2327
65°	1512	1586
75°	1385	1445
85°	1188	1048
90°	525	311
95°	352	297
105°	380	392
115°	292	293
125°	228	204
135°	176	139
145°	173	110
155°	185	85
165°	149	43
175°	94	10
180°	79	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	21265.3
2.5°	21231.8
5°	21168.1
7.5°	21089.1
10°	21049.6
12.5°	21022.3
15°	20952.4
17.5°	20809.7
20°	20566.7
22.5°	20196.2
25°	19725.5
27.5°	18866.0
30°	17198.7
32.5°	15048.5
35°	12700.8
37.5°	10368.4
40°	8430.8
42.5°	6754.3
45°	5144.7
47.5°	3662.7
50°	2985.4
52.5°	2721.2
55°	2529.8
57.5°	2460.0
60°	2390.1
62.5°	2040.9
65°	1512.4
67.5°	1145.0
70°	1072.1
72.5°	1196.6
75°	1384.9
77.5°	1545.8
80°	1582.3
82.5°	1457.8
85°	1187.5
87.5°	829.1
90°	525.4
92.5°	391.8
95°	352.3
97.5°	358.4
100°	370.5
102.5°	382.7
105°	379.6
107.5°	364.4
110°	340.1



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	315.9
115°	291.6
117.5°	273.3
120°	255.1
122.5°	243.0
125°	227.8
127.5°	209.6
130°	197.4
132.5°	185.3
135°	176.1
137.5°	173.1
140°	170.1
142.5°	173.1
145°	173.1
147.5°	176.1
150°	182.2
152.5°	185.3
155°	185.3
157.5°	182.2
160°	176.1
162.5°	164.0
165°	148.8
167.5°	133.6
170°	118.4
172.5°	106.3
175°	94.1
177.5°	85.0
180°	79.0

(END OF REPORT)