

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: P1175844

Luminaire Tested: UHBS2-2436-W-L83065-HIGH-5000K-CLR6

Issue Date: 8/26/2025

Test Information

Test Method: LM-79-2019
Report Number: P1175844
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-5000K-CLR6
Description: UHBS2 LED High Bay at 5000K and HIGH lumen setting 6in Deep Clear Refractor
Light Source: -
Ballast/Driver: -

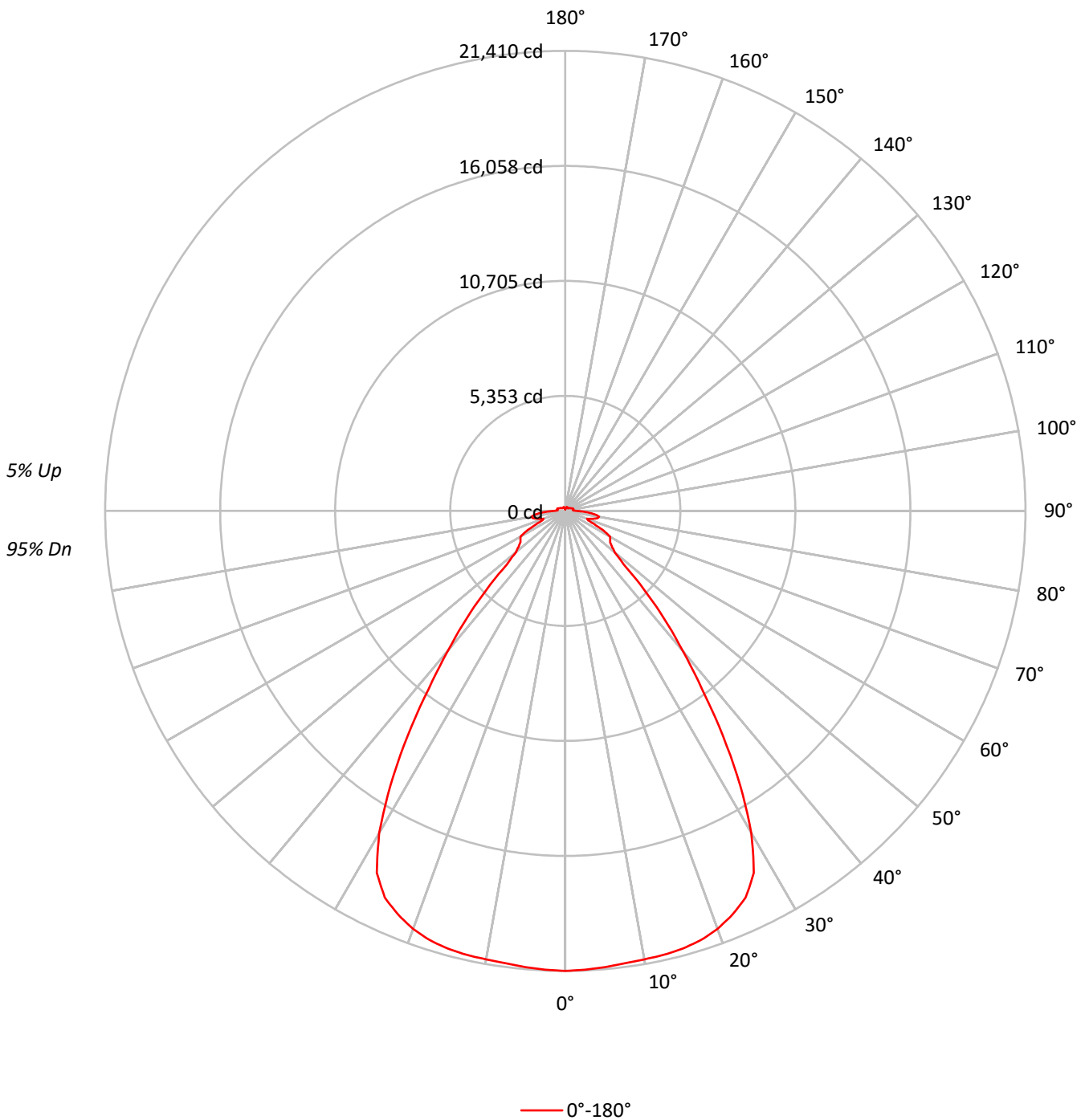
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37367.9 lumens
Efficiency: N/A
Efficacy: 160.0 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): 233.5
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°	135417
5°	130380
10°	126467
15°	123787
20°	120419
25°	115337
30°	101196
35°	75785
40°	51422
45°	32344
50°	19517
55°	17363
60°	17404
65°	11823
70°	9121
75°	13035
80°	16805
85°	14598

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 32344 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2030.1	5.4
10°-20°	5957.5	15.9
20°-30°	9006.8	24.1
30°-40°	7942.2	21.3
40°-50°	4084.9	10.9
50°-60°	2343.3	6.3
60°-70°	1596.7	4.3
70°-80°	1454.7	3.9
80°-90°	1242.1	3.3
90°-100°	425.9	1.1
100°-110°	394.8	1.1
110°-120°	294.9	0.8
120°-130°	205.2	0.5
130°-140°	140.3	0.4
140°-150°	110.3	0.3
150°-160°	85.4	0.2
160°-170°	43.2	0.1
170°-180°	9.8	0.0
0°-30°	16994.3	45.5
0°-40°	24936.6	66.7
0°-60°	31364.7	83.9
0°-90°	35658.1	95.4
90°-120°	1115.6	3.0
90°-150°	1571.4	4.2
90°-180°	1710.0	4.6
0°-180°	37367.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	21410	
5°	21312	###
15°	21095	5957
25°	19859	9007
35°	12787	7942
45°	5180	4085
55°	2547	2343
65°	1523	1597
75°	1394	1455
85°	1196	1055
90°	529	313
95°	355	299
105°	382	395
115°	294	295
125°	229	205
135°	177	140
145°	174	110
155°	186	85
165°	150	43
175°	95	10
180°	80	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	21409.6
2.5°	21376.0
5°	21311.8
7.5°	21232.3
10°	21192.5
12.5°	21165.0
15°	21094.7
17.5°	20951.0
20°	20706.4
22.5°	20333.3
25°	19859.4
27.5°	18994.1
30°	17315.4
32.5°	15150.6
35°	12787.1
37.5°	10438.8
40°	8488.0
42.5°	6800.2
45°	5179.7
47.5°	3687.5
50°	3005.7
52.5°	2739.7
55°	2547.0
57.5°	2476.7
60°	2406.4
62.5°	2054.7
65°	1522.7
67.5°	1152.7
70°	1079.3
72.5°	1204.7
75°	1394.3
77.5°	1556.3
80°	1593.0
82.5°	1467.7
85°	1195.5
87.5°	834.7
90°	529.0
92.5°	394.4
95°	354.7
97.5°	360.8
100°	373.0
102.5°	385.3
105°	382.2
107.5°	366.9
110°	342.5



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	318.0
115°	293.5
117.5°	275.2
120°	256.8
122.5°	244.6
125°	229.3
127.5°	211.0
130°	198.7
132.5°	186.5
135°	177.3
137.5°	174.3
140°	171.2
142.5°	174.3
145°	174.3
147.5°	177.3
150°	183.5
152.5°	186.5
155°	186.5
157.5°	183.5
160°	177.3
162.5°	165.1
165°	149.8
167.5°	134.5
170°	119.2
172.5°	107.0
175°	94.8
177.5°	85.6
180°	79.5

(END OF REPORT)