

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: P980721

Luminaire Tested: UHBS2-2436-N-L83065-LOW-5000K-CLR3

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980721
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-344-3)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: UHBS2-2436-N-L83065-LOW-5000K-CLR3
Description: UHBS2 LED High Bay at 5000K and LOW lumen setting 3in Deep Clear Refractor
Light Source: -
Ballast/Driver: -

Summary

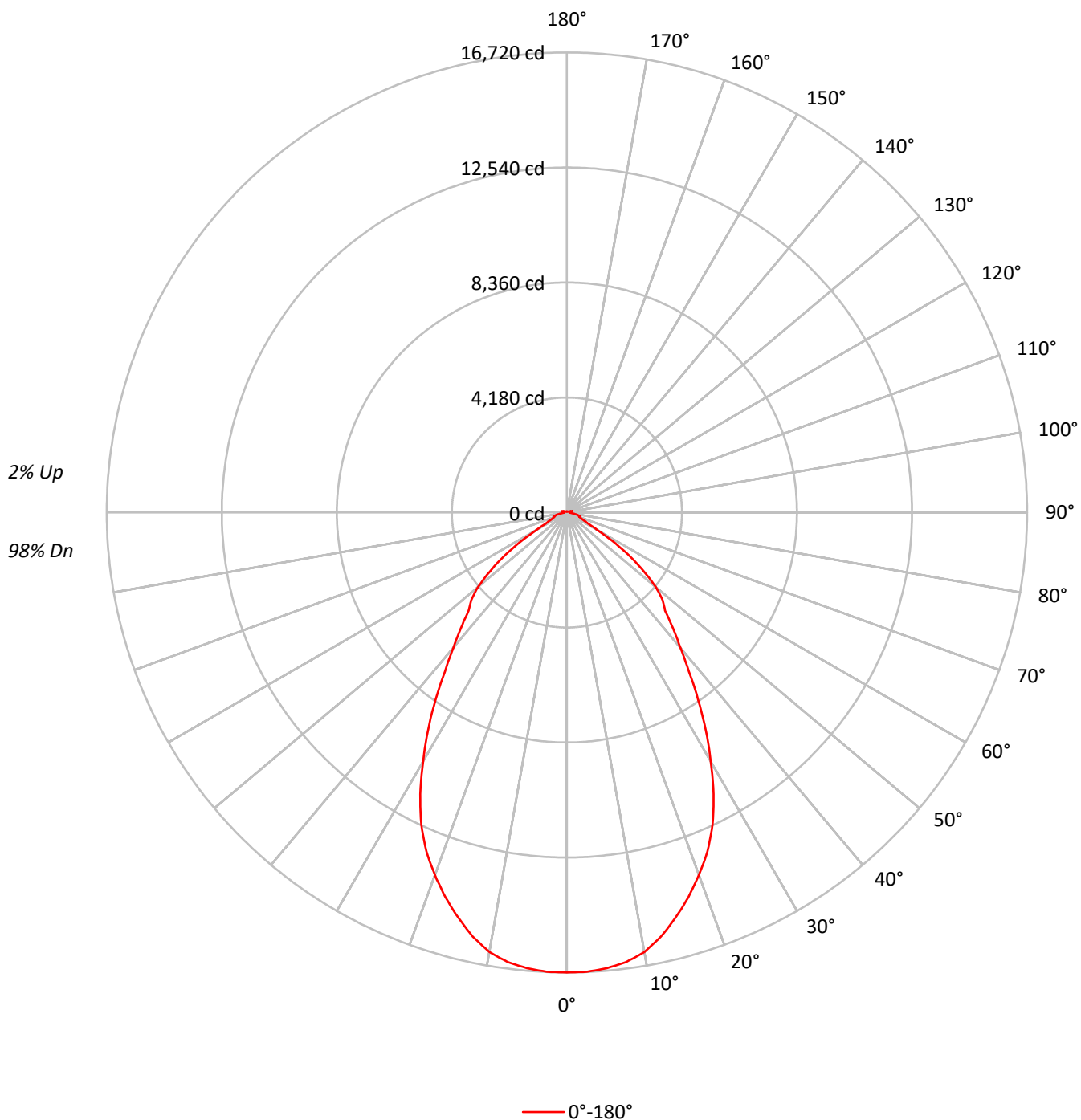
Lumens per Lamp: N/A
Luminaire Lumens: 25155.1 lumens
Efficiency: N/A
Efficacy: 163.7 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.03
Luminous Opening: Vertical Cylinder (Dia: 1.34' x H: 0.25')
CIE Type: Direct

Input Watts (W): 153.7
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 5.2
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	115	115	115	115	110	110	110	105	105	105	100	100	100				98
1	111	107	104	101	108	105	102	100	101	98	96	96	94	93	93	91	90				88
2	104	97	92	88	101	95	91	87	92	88	84	88	85	82	85	82	80				78
3	97	88	82	77	94	87	81	76	84	79	74	81	76	73	78	75	72				70
4	90	80	73	68	88	79	73	67	76	71	66	74	69	65	72	68	64				62
5	84	74	66	61	82	72	66	60	70	64	60	68	63	59	66	62	58				56
6	79	68	60	55	77	67	60	55	65	59	54	63	58	53	61	57	53				51
7	74	62	55	50	72	61	54	50	60	54	49	58	53	49	57	52	48				46
8	69	58	50	45	68	57	50	45	56	49	45	54	49	45	53	48	44				43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	44	41				39
10	62	50	43	39	60	49	43	38	48	42	38	47	42	38	46	41	38				36

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	128191
5°	125357
10°	121170
15°	113769
20°	105300
25°	95322
30°	81376
35°	66728
40°	53462
45°	44169
50°	39245
55°	28493
60°	13929
65°	8137
70°	6699
75°	6946
80°	5029
85°	3019

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 44169 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1574.7	6.3
10°-20°	4278.6	17.0
20°-30°	5696.2	22.6
30°-40°	5199.2	20.7
40°-50°	4001.1	15.9
50°-60°	2493.7	9.9
60°-70°	736.2	2.9
70°-80°	441.5	1.8
80°-90°	161.0	0.6
90°-100°	142.5	0.6
100°-110°	185.9	0.7
110°-120°	91.9	0.4
120°-130°	48.6	0.2
130°-140°	36.9	0.1
140°-150°	29.8	0.1
150°-160°	21.6	0.1
160°-170°	12.0	0.0
170°-180°	3.6	0.0
0°-30°	11549.5	45.9
0°-40°	16748.7	66.6
0°-60°	23243.5	92.4
0°-90°	24582.2	97.7
90°-120°	420.4	1.7
90°-150°	535.7	2.1
90°-180°	573.0	2.3
0°-180°	25155.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	16720	
5°	16628	###
15°	15248	4279
25°	12519	5696
35°	8318	5199
45°	5044	4001
55°	2856	2494
65°	678	736
75°	443	441
85°	128	134
90°	95	54
95°	126	115
105°	185	186
115°	89	92
125°	54	49
135°	47	37
145°	47	30
155°	47	22
165°	41	12
175°	37	4
180°	39	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	16720.2
2.5°	16707.9
5°	16627.6
7.5°	16481.3
10°	16217.7
12.5°	15793.5
15°	15247.8
17.5°	14665.0
20°	14024.5
22.5°	13344.9
25°	12519.1
27.5°	11540.9
30°	10455.5
32.5°	9397.0
35°	8317.9
37.5°	7280.0
40°	6408.8
42.5°	5702.5
45°	5043.5
47.5°	4718.1
50°	4223.8
52.5°	3536.0
55°	2856.4
57.5°	2084.1
60°	1283.0
62.5°	860.8
65°	677.5
67.5°	558.1
70°	494.3
72.5°	473.7
75°	442.8
77.5°	374.8
80°	267.7
82.5°	179.2
85°	127.7
87.5°	103.0
90°	94.7
92.5°	105.0
95°	125.6
97.5°	154.5
100°	181.2
102.5°	193.6
105°	185.3
107.5°	164.8
110°	135.9



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	109.1
115°	88.6
117.5°	72.1
120°	61.8
122.5°	55.6
125°	53.5
127.5°	51.5
130°	49.4
132.5°	47.4
135°	47.4
137.5°	47.4
140°	47.4
142.5°	47.4
145°	47.4
147.5°	47.4
150°	47.4
152.5°	47.4
155°	47.4
157.5°	45.3
160°	45.3
162.5°	43.2
165°	41.2
167.5°	41.2
170°	39.1
172.5°	37.1
175°	37.1
177.5°	39.1
180°	39.1

(END OF REPORT)