

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: P980679

Luminaire Tested: UHBS2-2436-M-L83065-LOW-3500K-FRR3

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980679
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-344-5)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: UHBS2-2436-M-L83065-LOW-3500K-FRR3
Description: UHBS2 LED High Bay at 3500K and LOW lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

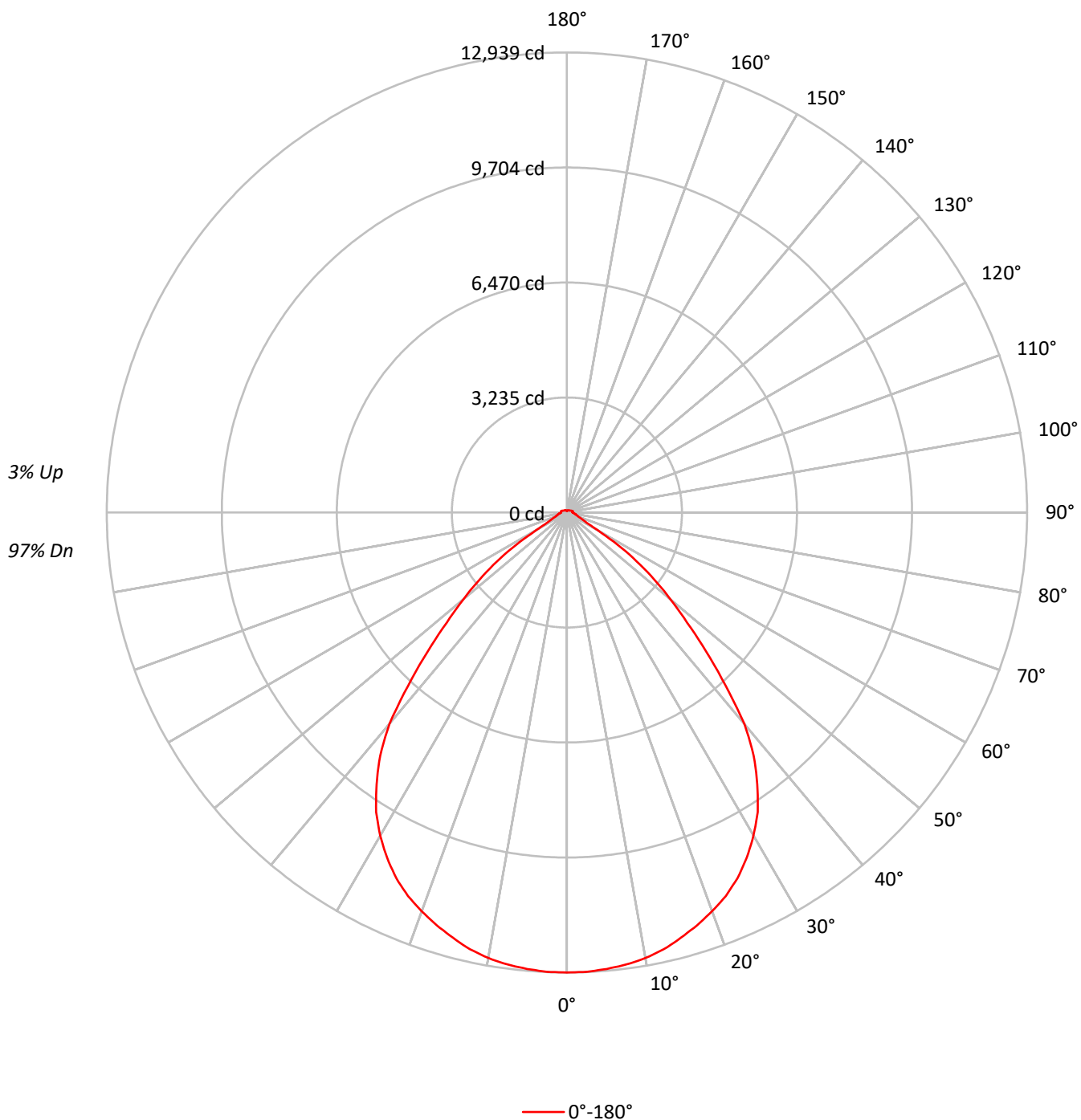
Lumens per Lamp: N/A
Luminaire Lumens: 23946.9 lumens
Efficiency: N/A
Efficacy: 155.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.22
Luminous Opening: Vertical Cylinder (Dia: 1.34' x H: 0.25')
CIE Type: Direct

Input Watts (W): 154.4
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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	118	118	118	118	115	115	115	115	109	109	109		104	104	104		99
1	111	107	104	101	108	105	102	99	100	98	96		96	94	92		92
2	103	97	92	87	101	95	90	86	91	87	84		87	84	81		84
3	96	88	81	76	94	86	80	75	83	78	74		80	76	72		77
4	89	80	73	67	87	78	72	67	76	70	65		73	68	64		71
5	83	73	65	60	81	72	65	59	69	63	59		67	62	58		65
6	78	67	59	54	76	66	58	53	64	57	53		62	56	52		60
7	73	61	54	48	71	60	53	48	59	52	48		57	51	47		55
8	68	56	49	44	67	56	49	44	54	48	43		53	47	43		51
9	64	52	45	40	63	51	45	40	50	44	40		49	43	39		48
10	60	48	41	37	59	48	41	37	47	41	36		46	40	36		45

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	99201
5°	97154
10°	95082
15°	92389
20°	89620
25°	86419
30°	81680
35°	74871
40°	64770
45°	48439
50°	35290
55°	23935
60°	10705
65°	6100
70°	4732
75°	4394
80°	4420
85°	4591

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 48439 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1225.1	5.1
10°-20°	3494.3	14.6
20°-30°	5209.5	21.8
30°-40°	5789.2	24.2
40°-50°	4313.9	18.0
50°-60°	2126.3	8.9
60°-70°	547.7	2.3
70°-80°	301.1	1.3
80°-90°	213.0	0.9
90°-100°	181.1	0.8
100°-110°	170.8	0.7
110°-120°	123.0	0.5
120°-130°	87.5	0.4
130°-140°	65.7	0.3
140°-150°	47.8	0.2
150°-160°	30.9	0.1
160°-170°	15.9	0.1
170°-180°	4.3	0.0
0°-30°	9928.9	41.5
0°-40°	15718.1	65.6
0°-60°	22158.3	92.5
0°-90°	23220.1	97.0
90°-120°	474.8	2.0
90°-150°	675.8	2.8
90°-180°	727.0	3.0
0°-180°	23946.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	12939	
5°	12887	###
15°	12382	3494
25°	11350	5209
35°	9333	5789
45°	5531	4314
55°	2400	2126
65°	508	548
75°	280	301
85°	194	167
90°	159	90
95°	166	137
105°	162	171
115°	123	123
125°	97	87
135°	84	66
145°	77	48
155°	67	31
165°	56	16
175°	43	4
180°	43	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	12938.9
2.5°	12929.5
5°	12886.6
7.5°	12823.1
10°	12726.0
12.5°	12584.1
15°	12382.4
17.5°	12173.3
20°	11936.1
22.5°	11672.8
25°	11349.8
27.5°	10950.1
30°	10494.5
32.5°	9984.7
35°	9333.0
37.5°	8627.2
40°	7764.4
42.5°	6603.0
45°	5531.1
47.5°	4584.3
50°	3798.2
52.5°	3094.2
55°	2399.5
57.5°	1701.2
60°	986.0
62.5°	627.4
65°	507.9
67.5°	418.3
70°	349.2
72.5°	311.8
75°	280.1
77.5°	255.8
80°	235.3
82.5°	214.7
85°	194.2
87.5°	175.5
90°	158.7
92.5°	162.5
95°	166.2
97.5°	169.9
100°	171.8
102.5°	169.9
105°	162.5
107.5°	155.0
110°	143.8



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	132.6
115°	123.2
117.5°	113.9
120°	106.4
122.5°	100.8
125°	97.1
127.5°	93.4
130°	89.6
132.5°	87.8
135°	84.0
137.5°	82.2
140°	80.3
142.5°	78.4
145°	76.6
147.5°	72.8
150°	71.0
152.5°	69.1
155°	67.2
157.5°	63.5
160°	61.6
162.5°	57.9
165°	56.0
167.5°	52.3
170°	48.6
172.5°	44.8
175°	42.9
177.5°	44.8
180°	42.9

(END OF REPORT)