

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: P980664

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

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980664
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-HIGH-3500K-FRR3
Description: UHBS2 LED High Bay at 3500K and HIGH lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

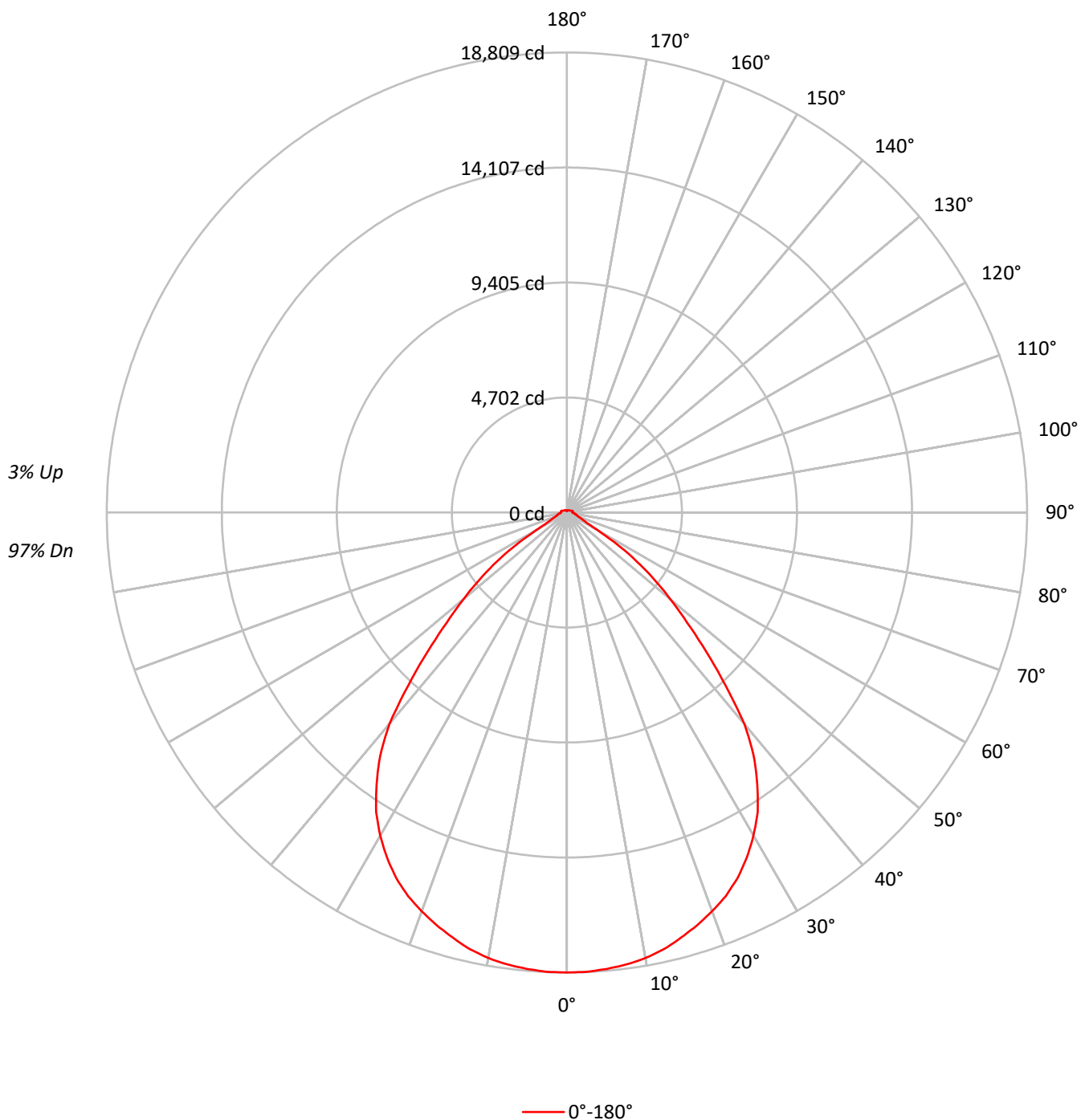
Lumens per Lamp: N/A
Luminaire Lumens: 34811.0 lumens
Efficiency: N/A
Efficacy: 147.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.22
Luminous Opening: Vertical Cylinder (Dia: 1.34' x H: 0.25')
CIE Type: Direct

Input Watts (W): 235.5
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

TEST NUMBER: P980664

CATALOG NUMBER: UHBS2-2436-M-L83065-HIGH-3500K-FRR3

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°	144204
5°	141229
10°	138218
15°	134303
20°	130277
25°	125624
30°	118735
35°	108838
40°	94154
45°	70415
50°	51300
55°	34794
60°	15561
65°	8867
70°	6879
75°	6387
80°	6425
85°	6673

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 70415 cd/sqm

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CATALOG NUMBER: UHBS2-2436-M-L83065-HIGH-3500K-FRR3

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1781.0	5.1
10°-20°	5079.5	14.6
20°-30°	7572.8	21.8
30°-40°	8415.6	24.2
40°-50°	6271.0	18.0
50°-60°	3090.9	8.9
60°-70°	796.2	2.3
70°-80°	437.7	1.3
80°-90°	309.7	0.9
90°-100°	263.2	0.8
100°-110°	248.2	0.7
110°-120°	178.9	0.5
120°-130°	127.1	0.4
130°-140°	95.5	0.3
140°-150°	69.5	0.2
150°-160°	45.0	0.1
160°-170°	23.0	0.1
170°-180°	6.3	0.0
0°-30°	14433.3	41.5
0°-40°	22848.8	65.6
0°-60°	32210.7	92.5
0°-90°	33754.3	97.0
90°-120°	690.2	2.0
90°-150°	982.4	2.8
90°-180°	1057.0	3.0
0°-180°	34811.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	18809	
5°	18733	###
15°	18000	5079
25°	16499	7573
35°	13567	8416
45°	8040	6271
55°	3488	3091
65°	738	796
75°	407	438
85°	282	243
90°	231	131
95°	242	199
105°	236	248
115°	179	179
125°	141	127
135°	122	96
145°	111	69
155°	98	45
165°	81	23
175°	62	6
180°	62	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	18808.8
2.5°	18795.3
5°	18732.8
7.5°	18640.5
10°	18499.4
12.5°	18293.1
15°	17999.9
17.5°	17695.9
20°	17351.1
22.5°	16968.4
25°	16498.8
27.5°	15917.9
30°	15255.5
32.5°	14514.5
35°	13567.1
37.5°	12541.0
40°	11286.9
42.5°	9598.5
45°	8040.4
47.5°	6664.1
50°	5521.3
52.5°	4497.9
55°	3488.1
57.5°	2472.9
60°	1433.3
62.5°	912.1
65°	738.3
67.5°	608.1
70°	507.6
72.5°	453.3
75°	407.2
77.5°	371.9
80°	342.0
82.5°	312.2
85°	282.3
87.5°	255.2
90°	230.7
92.5°	236.2
95°	241.6
97.5°	247.0
100°	249.7
102.5°	247.0
105°	236.2
107.5°	225.3
110°	209.0

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CATALOG NUMBER: UHBS2-2436-M-L83065-HIGH-3500K-FRR3

CANDELA DISTRIBUTION (continued):

	0°
112.5°	192.7
115°	179.2
117.5°	165.6
120°	154.7
122.5°	146.6
125°	141.2
127.5°	135.7
130°	130.3
132.5°	127.6
135°	122.2
137.5°	119.4
140°	116.7
142.5°	114.0
145°	111.3
147.5°	105.9
150°	103.2
152.5°	100.4
155°	97.7
157.5°	92.3
160°	89.6
162.5°	84.1
165°	81.4
167.5°	76.0
170°	70.6
172.5°	65.1
175°	62.4
177.5°	65.1
180°	62.4

(END OF REPORT)