

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: P980748

Luminaire Tested: UHBS2-2436-W-L83065-HIGH-6500K-FRR3

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980748
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-344-4)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: UHBS2-2436-W-L83065-HIGH-6500K-FRR3
Description: UHBS2 LED High Bay at 6500K and HIGH lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

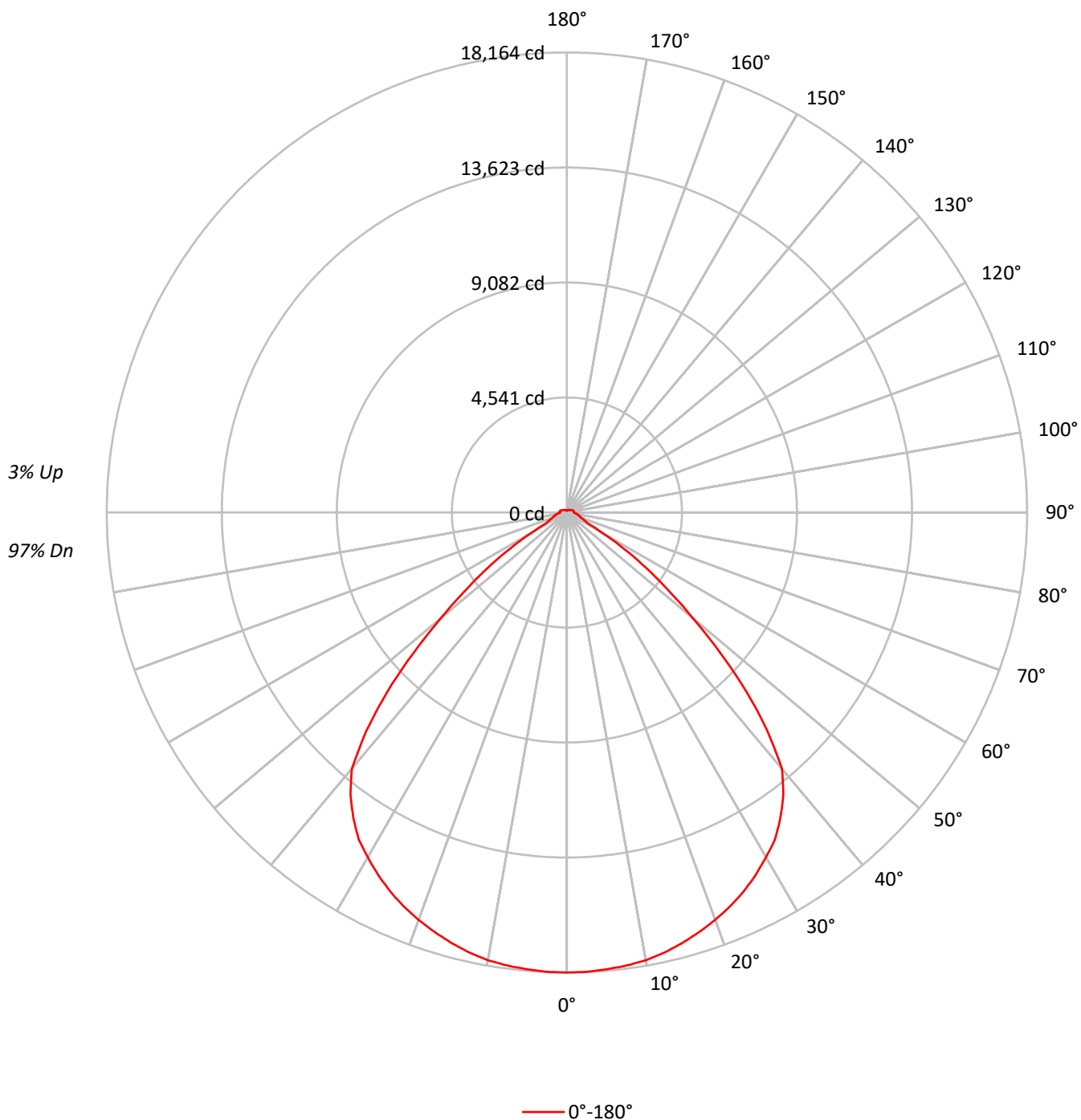
Lumens per Lamp: N/A
Luminaire Lumens: 37571.0 lumens
Efficiency: N/A
Efficacy: 157.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.31
Luminous Opening: Vertical Cylinder (Dia: 1.34' x H: 0.25')
CIE Type: Direct

Input Watts (W): 239.1
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
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	104	101	99	100	97	95		95	93	92		91
2	103	96	91	86	100	94	89	85	90	86	83		87	83	80		83
3	95	87	80	75	93	85	79	74	82	77	73		79	75	71		76
4	89	79	72	66	86	77	71	65	75	69	64		72	67	63		70
5	82	72	64	58	80	70	63	58	68	62	57		66	60	56		64
6	77	65	58	52	75	64	57	52	62	56	51		60	55	50		59
7	72	60	52	47	70	59	52	46	57	51	46		56	50	45		54
8	67	55	47	42	65	54	47	42	53	46	42		51	45	41		50
9	63	51	43	38	61	50	43	38	49	42	38		47	42	38		46
10	59	47	40	35	58	46	40	35	45	39	35		44	38	34		43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	139264
5°	136472
10°	134098
15°	131281
20°	128513
25°	125706
30°	122332
35°	117909
40°	110157
45°	88032
50°	60157
55°	38102
60°	17936
65°	9510
70°	8145
75°	7909
80°	7920
85°	8080

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 88032 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1723.3	4.6
10°-20°	4969.5	13.2
20°-30°	7605.4	20.2
30°-40°	9154.1	24.4
40°-50°	7641.1	20.3
50°-60°	3462.3	9.2
60°-70°	879.2	2.3
70°-80°	535.3	1.4
80°-90°	373.5	1.0
90°-100°	301.4	0.8
100°-110°	284.2	0.8
110°-120°	211.4	0.6
120°-130°	150.7	0.4
130°-140°	113.2	0.3
140°-150°	81.2	0.2
150°-160°	52.0	0.1
160°-170°	26.2	0.1
170°-180°	7.0	0.0
0°-30°	14298.3	38.1
0°-40°	23452.4	62.4
0°-60°	34555.8	92.0
0°-90°	36343.8	96.7
90°-120°	797.0	2.1
90°-150°	1142.1	3.0
90°-180°	1227.0	3.3
0°-180°	37571.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	18164	
5°	18102	###
15°	17595	4970
25°	16510	7605
35°	14698	9154
45°	10052	7641
55°	3820	3462
65°	792	879
75°	504	535
85°	342	295
90°	268	152
95°	276	228
105°	271	284
115°	211	211
125°	168	151
135°	145	113
145°	128	81
155°	111	52
165°	91	26
175°	71	7
180°	68	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	18164.4
2.5°	18150.2
5°	18101.8
7.5°	18042.0
10°	17948.0
12.5°	17799.8
15°	17594.8
17.5°	17369.7
20°	17116.2
22.5°	16831.4
25°	16509.5
27.5°	16130.7
30°	15717.6
32.5°	15293.2
35°	14697.9
37.5°	14031.4
40°	13205.3
42.5°	11727.0
45°	10052.1
47.5°	8220.6
50°	6474.5
52.5°	5044.6
55°	3819.7
57.5°	2691.8
60°	1652.1
62.5°	962.8
65°	791.9
67.5°	683.6
70°	601.0
72.5°	549.7
75°	504.2
77.5°	461.4
80°	421.6
82.5°	381.7
85°	341.8
87.5°	301.9
90°	267.8
92.5°	270.6
95°	276.3
97.5°	282.0
100°	284.8
102.5°	279.1
105°	270.6
107.5°	259.2
110°	245.0

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	227.9
115°	210.8
117.5°	196.5
120°	185.1
122.5°	173.8
125°	168.1
127.5°	159.5
130°	153.8
132.5°	151.0
135°	145.3
137.5°	142.4
140°	136.7
142.5°	133.9
145°	128.2
147.5°	125.3
150°	119.6
152.5°	116.8
155°	111.1
157.5°	108.2
160°	102.5
162.5°	96.8
165°	91.1
167.5°	85.5
170°	79.8
172.5°	71.2
175°	71.2
177.5°	71.2
180°	68.4

(END OF REPORT)