

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: P980742

Luminaire Tested: UHBS2-2436-W-L83065-HIGH-4000K-FRR3

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980742
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-4000K-FRR3
Description: UHBS2 LED High Bay at 4000K and HIGH lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

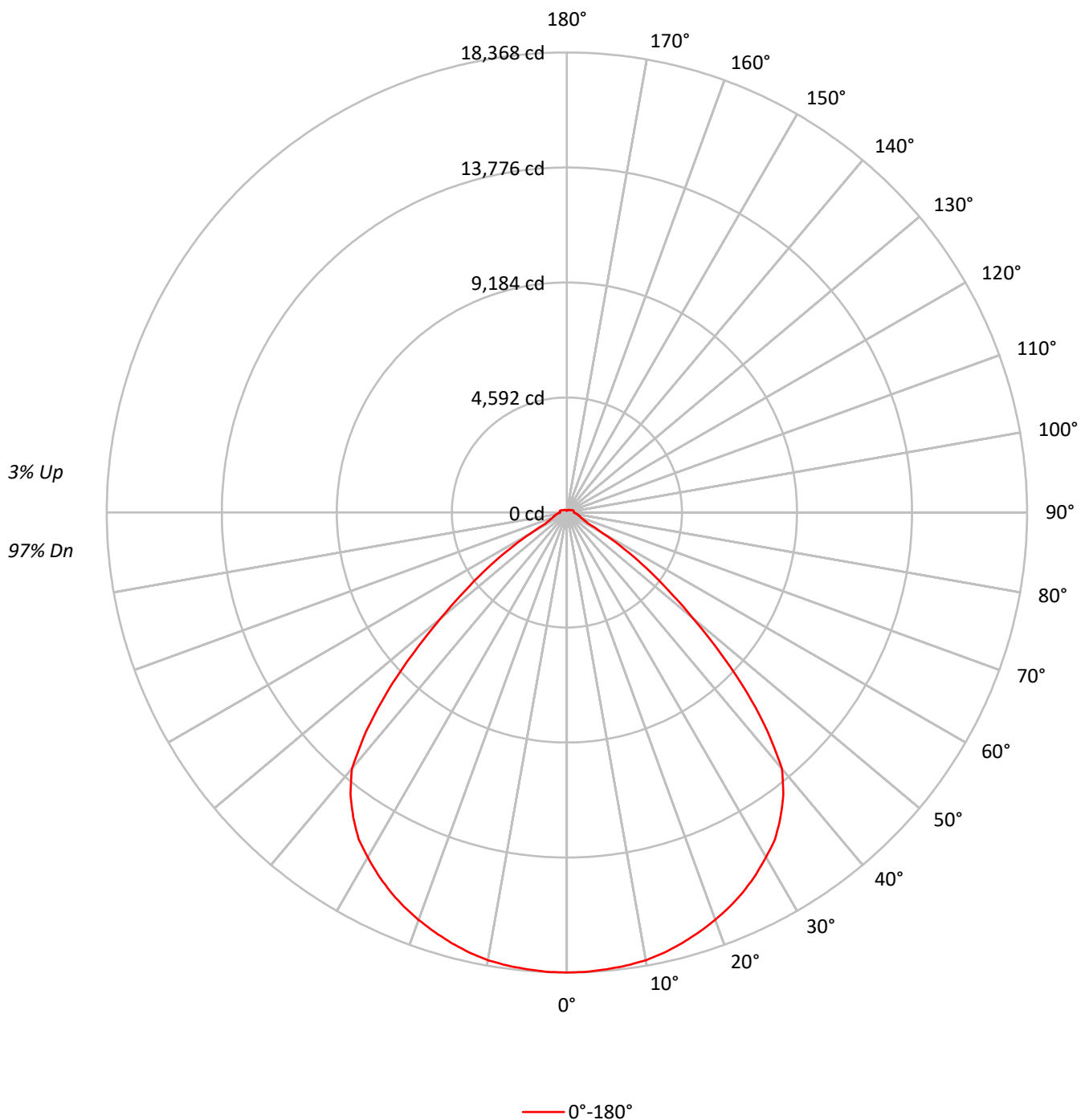
Lumens per Lamp: N/A
Luminaire Lumens: 37992.9 lumens
Efficiency: N/A
Efficacy: 163.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.31
Luminous Opening: Vertical Cylinder (Dia: 1.34' x H: 0.25')
CIE Type: Direct

Input Watts (W): 232.1
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	30	10
RCR																	
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99
1	111	107	104	101	108	104	101	99	100	97	95	95	93	92	91	90	88
2	103	96	91	86	100	94	89	85	90	86	83	87	83	80	83	81	78
3	95	87	80	75	93	85	79	74	82	77	73	79	75	71	76	73	70
4	89	79	72	66	86	77	71	65	75	69	64	72	67	63	70	65	62
5	82	72	64	58	80	70	63	58	68	62	57	66	60	56	64	59	55
6	77	65	58	52	75	64	57	52	62	56	51	60	55	50	59	54	50
7	72	60	52	47	70	59	52	46	57	51	46	56	50	45	54	49	45
8	67	55	47	42	65	54	47	42	53	46	42	51	45	41	50	45	41
9	63	51	43	38	61	50	43	38	49	42	38	47	42	38	46	41	37
10	59	47	40	35	58	46	40	35	45	39	35	44	38	34	43	38	34

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	140829
5°	138004
10°	135604
15°	132755
20°	129957
25°	127117
30°	123706
35°	119234
40°	111394
45°	89021
50°	60832
55°	38530
60°	18137
65°	9617
70°	8237
75°	7997
80°	8009
85°	8172

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 89021 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1742.7	4.6
10°-20°	5025.3	13.2
20°-30°	7690.8	20.2
30°-40°	9256.9	24.4
40°-50°	7726.9	20.3
50°-60°	3501.2	9.2
60°-70°	889.0	2.3
70°-80°	541.3	1.4
80°-90°	377.7	1.0
90°-100°	304.8	0.8
100°-110°	287.3	0.8
110°-120°	213.7	0.6
120°-130°	152.4	0.4
130°-140°	114.5	0.3
140°-150°	82.1	0.2
150°-160°	52.6	0.1
160°-170°	26.5	0.1
170°-180°	7.0	0.0
0°-30°	14458.9	38.1
0°-40°	23715.8	62.4
0°-60°	34943.9	92.0
0°-90°	36752.0	96.7
90°-120°	805.9	2.1
90°-150°	1154.9	3.0
90°-180°	1241.0	3.3
0°-180°	37992.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	18368	
5°	18305	###
15°	17792	5025
25°	16695	7691
35°	14863	9257
45°	10165	7727
55°	3863	3501
65°	801	889
75°	510	541
85°	346	299
90°	271	154
95°	279	230
105°	274	287
115°	213	214
125°	170	152
135°	147	115
145°	130	82
155°	112	53
165°	92	26
175°	72	7
180°	69	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	18368.5
2.5°	18354.1
5°	18305.1
7.5°	18244.6
10°	18149.6
12.5°	17999.8
15°	17792.4
17.5°	17564.8
20°	17308.5
22.5°	17020.4
25°	16694.9
27.5°	16311.8
30°	15894.2
32.5°	15465.0
35°	14863.0
37.5°	14189.0
40°	13353.6
42.5°	11858.7
45°	10165.0
47.5°	8312.9
50°	6547.2
52.5°	5101.2
55°	3862.6
57.5°	2722.0
60°	1670.6
62.5°	973.6
65°	800.8
67.5°	691.3
70°	607.8
72.5°	555.9
75°	509.8
77.5°	466.6
80°	426.3
82.5°	386.0
85°	345.7
87.5°	305.3
90°	270.8
92.5°	273.6
95°	279.4
97.5°	285.2
100°	288.0
102.5°	282.3
105°	273.6
107.5°	262.1
110°	247.7



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	230.4
115°	213.2
117.5°	198.7
120°	187.2
122.5°	175.7
125°	169.9
127.5°	161.3
130°	155.5
132.5°	152.7
135°	146.9
137.5°	144.0
140°	138.3
142.5°	135.4
145°	129.6
147.5°	126.7
150°	121.0
152.5°	118.1
155°	112.3
157.5°	109.5
160°	103.7
162.5°	97.9
165°	92.2
167.5°	86.4
170°	80.7
172.5°	72.0
175°	72.0
177.5°	72.0
180°	69.1

(END OF REPORT)