

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: P980739

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

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980739
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-3500K-FRR3
Description: UHBS2 LED High Bay at 3500K and HIGH lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

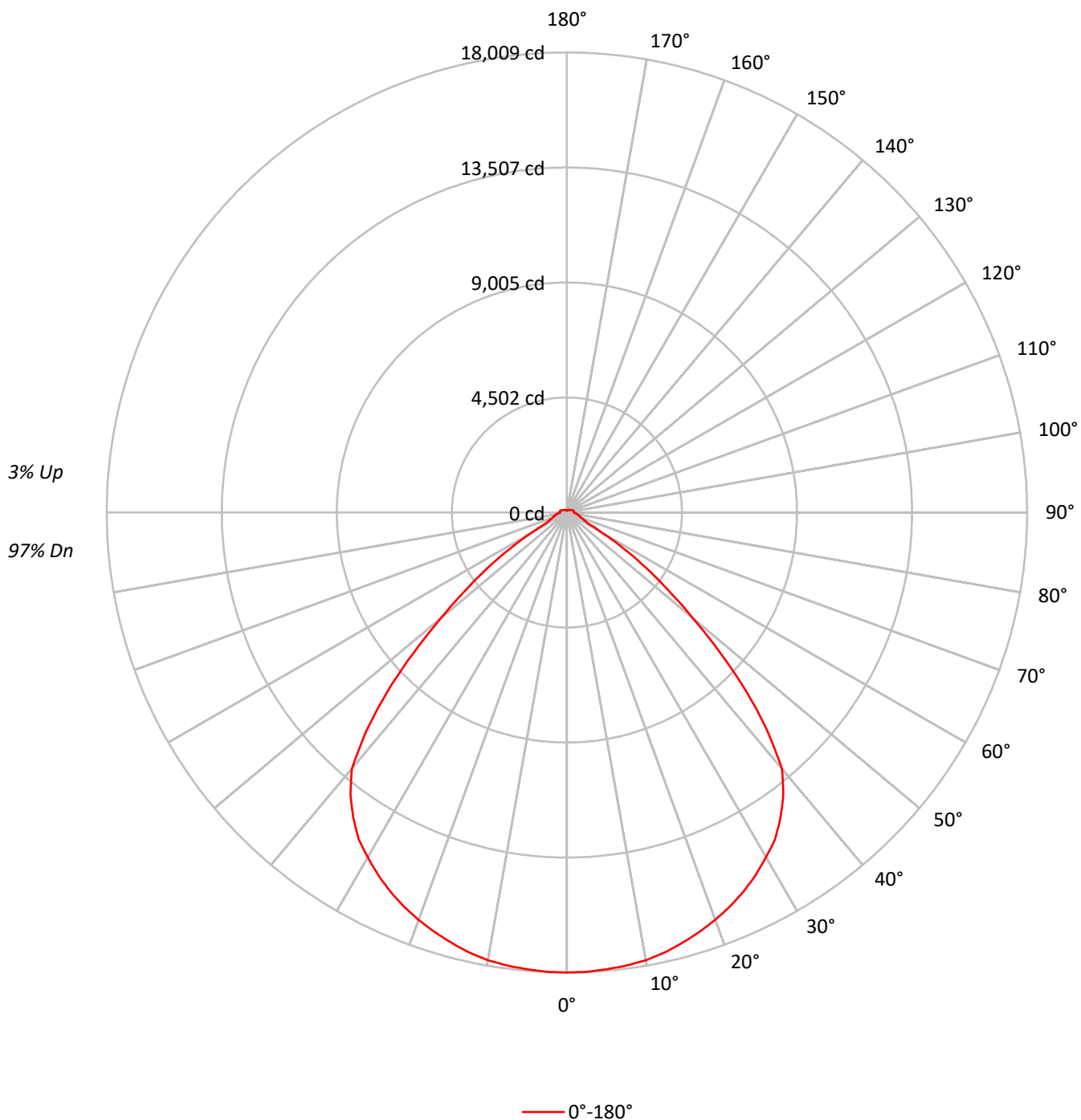
Lumens per Lamp: N/A
Luminaire Lumens: 37250.1 lumens
Efficiency: N/A
Efficacy: 158.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.31
Luminous Opening: Vertical Cylinder (Dia: 1.34' x H: 0.25')
CIE Type: Direct

Input Watts (W): 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

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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°	138074
5°	135305
10°	132952
15°	130159
20°	127416
25°	124631
30°	121286
35°	116902
40°	109216
45°	87280
50°	59643
55°	37777
60°	17783
65°	9429
70°	8076
75°	7841
80°	7853
85°	8011

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 87280 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1708.6	4.6
10°-20°	4927.0	13.2
20°-30°	7540.4	20.2
30°-40°	9075.9	24.4
40°-50°	7575.8	20.3
50°-60°	3432.7	9.2
60°-70°	871.6	2.3
70°-80°	530.8	1.4
80°-90°	370.3	1.0
90°-100°	298.9	0.8
100°-110°	281.8	0.8
110°-120°	209.6	0.6
120°-130°	149.4	0.4
130°-140°	112.3	0.3
140°-150°	80.5	0.2
150°-160°	51.5	0.1
160°-170°	25.9	0.1
170°-180°	6.9	0.0
0°-30°	14176.1	38.1
0°-40°	23252.0	62.4
0°-60°	34260.6	92.0
0°-90°	36033.3	96.7
90°-120°	790.2	2.1
90°-150°	1132.4	3.0
90°-180°	1217.0	3.3
0°-180°	37250.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	18009	
5°	17947	###
15°	17444	4927
25°	16368	7540
35°	14572	9076
45°	9966	7576
55°	3787	3433
65°	785	872
75°	500	531
85°	339	293
90°	266	151
95°	274	226
105°	268	282
115°	209	210
125°	167	149
135°	144	112
145°	127	80
155°	110	52
165°	90	26
175°	71	7
180°	68	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	18009.2
2.5°	17995.1
5°	17947.1
7.5°	17887.8
10°	17794.6
12.5°	17647.8
15°	17444.4
17.5°	17221.3
20°	16970.0
22.5°	16687.6
25°	16368.4
27.5°	15992.8
30°	15583.3
32.5°	15162.6
35°	14572.3
37.5°	13911.5
40°	13092.5
42.5°	11626.8
45°	9966.2
47.5°	8150.3
50°	6419.2
52.5°	5001.5
55°	3787.1
57.5°	2668.8
60°	1638.0
62.5°	954.5
65°	785.1
67.5°	677.8
70°	595.9
72.5°	545.1
75°	499.9
77.5°	457.5
80°	418.0
82.5°	378.4
85°	338.9
87.5°	299.4
90°	265.5
92.5°	268.3
95°	273.9
97.5°	279.6
100°	282.4
102.5°	276.8
105°	268.3
107.5°	257.0
110°	242.9

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	225.9
115°	209.0
117.5°	194.9
120°	183.6
122.5°	172.3
125°	166.6
127.5°	158.1
130°	152.5
132.5°	149.7
135°	144.0
137.5°	141.2
140°	135.6
142.5°	132.7
145°	127.1
147.5°	124.3
150°	118.6
152.5°	115.8
155°	110.1
157.5°	107.3
160°	101.7
162.5°	96.0
165°	90.4
167.5°	84.7
170°	79.1
172.5°	70.6
175°	70.6
177.5°	70.6
180°	67.8

(END OF REPORT)