

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: P980745

Luminaire Tested: UHBS2-2436-W-L83065-HIGH-5000K-FRR3

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980745
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-5000K-FRR3
Description: UHBS2 LED High Bay at 5000K and HIGH lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

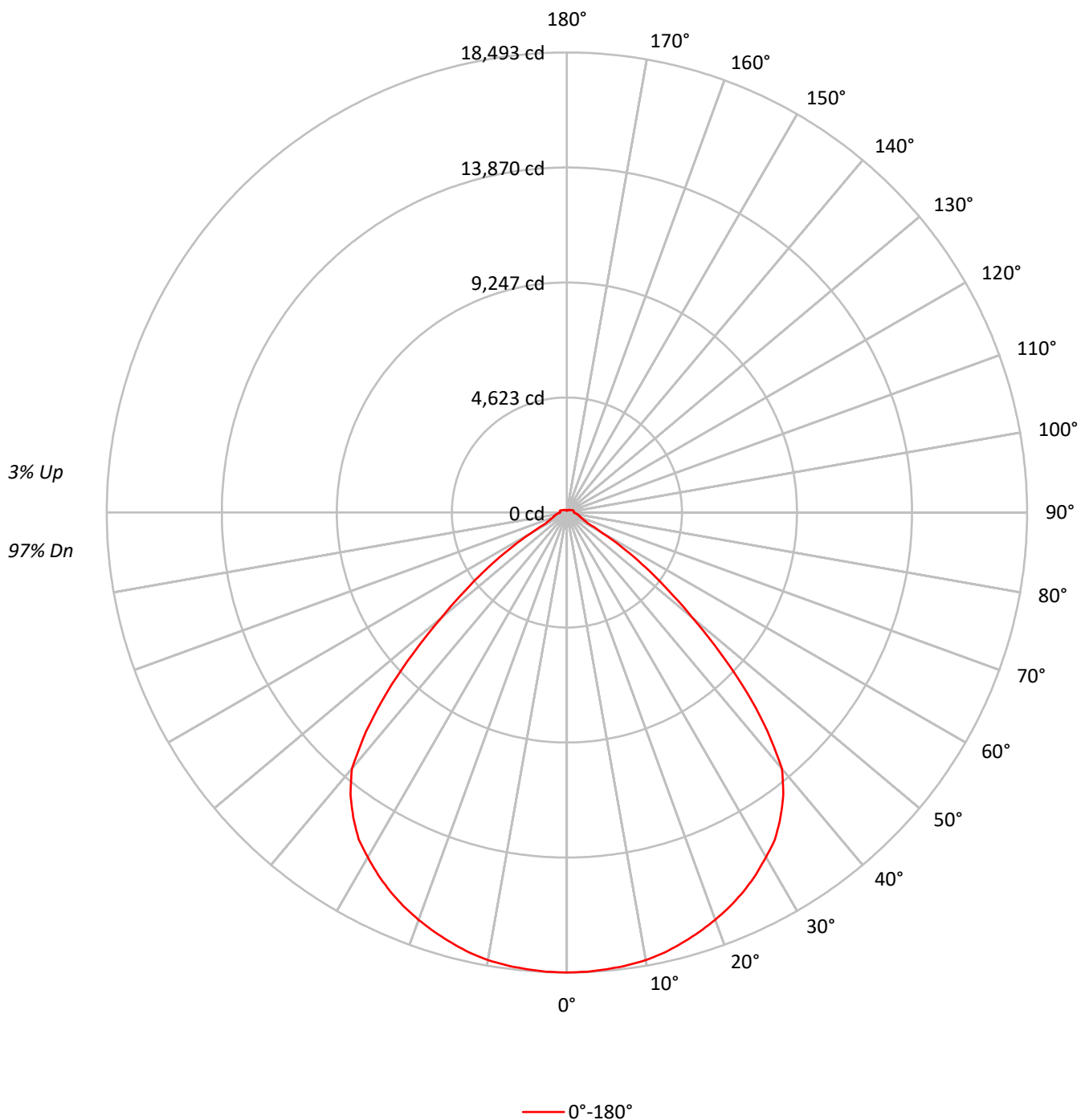
Lumens per Lamp: N/A
Luminaire Lumens: 38250.1 lumens
Efficiency: N/A
Efficacy: 163.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.31
Luminous Opening: Vertical Cylinder (Dia: 1.34' x H: 0.25')
CIE Type: Direct

Input Watts (W): 233.5
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°	141781
5°	138938
10°	136521
15°	133653
20°	130836
25°	127978
30°	124543
35°	120040
40°	112149
45°	89623
50°	61244
55°	38791
60°	18260
65°	9682
70°	8292
75°	8051
80°	8063
85°	8226

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 89623 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1754.5	4.6
10°-20°	5059.3	13.2
20°-30°	7742.9	20.2
30°-40°	9319.5	24.4
40°-50°	7779.2	20.3
50°-60°	3524.9	9.2
60°-70°	895.1	2.3
70°-80°	545.0	1.4
80°-90°	380.3	1.0
90°-100°	306.9	0.8
100°-110°	289.3	0.8
110°-120°	215.2	0.6
120°-130°	153.4	0.4
130°-140°	115.3	0.3
140°-150°	82.6	0.2
150°-160°	52.9	0.1
160°-170°	26.6	0.1
170°-180°	7.1	0.0
0°-30°	14556.7	38.1
0°-40°	23876.2	62.4
0°-60°	35180.3	92.0
0°-90°	37000.6	96.7
90°-120°	811.4	2.1
90°-150°	1162.8	3.0
90°-180°	1249.0	3.3
0°-180°	38250.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	18493	
5°	18429	###
15°	17913	5059
25°	16808	7743
35°	14964	9320
45°	10234	7779
55°	3889	3525
65°	806	895
75°	513	545
85°	348	301
90°	273	155
95°	281	232
105°	276	289
115°	215	215
125°	171	153
135°	148	115
145°	130	83
155°	113	53
165°	93	27
175°	72	7
180°	70	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	18492.7
2.5°	18478.2
5°	18428.9
7.5°	18368.0
10°	18272.3
12.5°	18121.5
15°	17912.7
17.5°	17683.6
20°	17425.5
22.5°	17135.6
25°	16807.9
27.5°	16422.2
30°	16001.7
32.5°	15569.6
35°	14963.5
37.5°	14284.9
40°	13444.0
42.5°	11938.9
45°	10233.8
47.5°	8369.1
50°	6591.5
52.5°	5135.7
55°	3888.8
57.5°	2740.4
60°	1681.9
62.5°	980.2
65°	806.2
67.5°	696.0
70°	611.9
72.5°	559.7
75°	513.3
77.5°	469.8
80°	429.2
82.5°	388.6
85°	348.0
87.5°	307.4
90°	272.6
92.5°	275.5
95°	281.3
97.5°	287.1
100°	290.0
102.5°	284.2
105°	275.5
107.5°	263.9
110°	249.4

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	232.0
115°	214.6
117.5°	200.1
120°	188.5
122.5°	176.9
125°	171.1
127.5°	162.4
130°	156.6
132.5°	153.7
135°	147.9
137.5°	145.0
140°	139.2
142.5°	136.3
145°	130.5
147.5°	127.6
150°	121.8
152.5°	118.9
155°	113.1
157.5°	110.2
160°	104.4
162.5°	98.6
165°	92.8
167.5°	87.0
170°	81.2
172.5°	72.5
175°	72.5
177.5°	72.5
180°	69.6

(END OF REPORT)