

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: P980747

Luminaire Tested: UHBS2-2436-W-L83065-HIGH-6500K-CLR3

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980747
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-344-1)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: UHBS2-2436-W-L83065-HIGH-6500K-CLR3
Description: UHBS2 LED High Bay at 6500K and HIGH lumen setting 3in Deep Clear Refractor
Light Source: -
Ballast/Driver: -

Summary

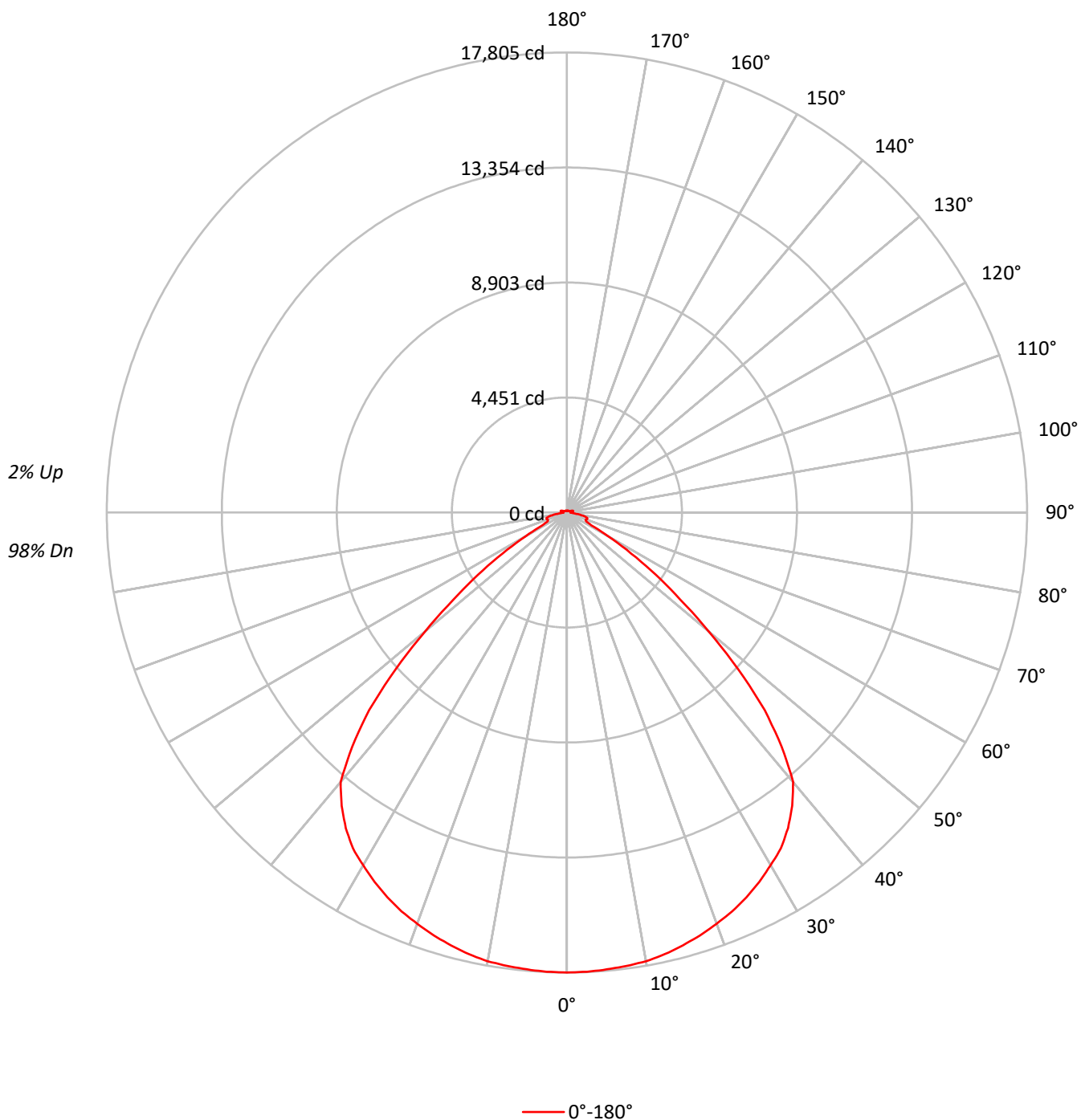
Lumens per Lamp: N/A
Luminaire Lumens: 38334.9 lumens
Efficiency: N/A
Efficacy: 160.3 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.31 / 1.34
Luminous Opening: Vertical Cylinder (Dia: 1.34' x H: 0.25')
CIE Type: Direct

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	119	119	119	119	116	116	116	116	110	110	110		105	105	105		100
1	111	107	104	101	108	105	102	99	100	98	95		96	94	92		92
2	103	96	91	86	100	94	89	85	90	86	83		87	84	81		84
3	95	87	80	75	93	85	79	74	82	77	72		79	75	71		76
4	88	78	71	65	86	77	70	65	74	68	64		72	67	63		70
5	82	71	63	58	80	70	63	57	68	61	57		66	60	56		64
6	76	65	57	51	74	64	56	51	62	55	50		60	54	50		58
7	71	59	51	46	69	58	51	46	57	50	45		55	49	45		54
8	67	54	47	41	65	54	46	41	52	46	41		51	45	41		50
9	62	50	43	38	61	49	42	37	48	42	37		47	41	37		46
10	58	46	39	34	57	46	39	34	45	38	34		44	38	34		43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	136508
5°	133826
10°	131775
15°	129387
20°	127166
25°	125145
30°	122694
35°	119635
40°	113598
45°	94729
50°	66490
55°	41825
60°	19903
65°	10085
70°	10801
75°	12770
80°	9947
85°	5182

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 94729 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1690.9	4.4
10°-20°	4900.4	12.8
20°-30°	7576.1	19.8
30°-40°	9290.9	24.2
40°-50°	8160.0	21.3
50°-60°	3804.7	9.9
60°-70°	988.4	2.6
70°-80°	797.8	2.1
80°-90°	286.0	0.7
90°-100°	185.1	0.5
100°-110°	254.2	0.7
110°-120°	146.5	0.4
120°-130°	80.3	0.2
130°-140°	60.6	0.2
140°-150°	51.6	0.1
150°-160°	37.5	0.1
160°-170°	19.0	0.0
170°-180°	5.0	0.0
0°-30°	14167.4	37.0
0°-40°	23458.3	61.2
0°-60°	35423.0	92.4
0°-90°	37495.2	97.8
90°-120°	585.7	1.5
90°-150°	778.2	2.0
90°-180°	840.0	2.2
0°-180°	38334.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	17805	
5°	17751	###
15°	17341	4900
25°	16436	7576
35°	14913	9291
45°	10817	8160
55°	4193	3805
65°	840	988
75°	814	798
85°	219	246
90°	131	77
95°	162	148
105°	253	254
115°	142	146
125°	88	80
135°	77	61
145°	82	52
155°	82	37
165°	66	19
175°	51	5
180°	51	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	17805.0
2.5°	17790.8
5°	17750.9
7.5°	17699.7
10°	17637.1
12.5°	17509.0
15°	17341.0
17.5°	17156.0
20°	16936.8
22.5°	16709.1
25°	16435.8
27.5°	16114.2
30°	15764.1
32.5°	15411.1
35°	14913.0
37.5°	14312.3
40°	13617.8
42.5°	12299.8
45°	10816.8
47.5°	8997.9
50°	7156.2
52.5°	5528.0
55°	4192.9
57.5°	2949.0
60°	1833.2
62.5°	1064.6
65°	839.7
67.5°	785.6
70°	797.0
72.5°	828.3
75°	814.1
77.5°	714.5
80°	529.5
82.5°	341.6
85°	219.2
87.5°	159.4
90°	130.9
92.5°	139.5
95°	162.3
97.5°	196.4
100°	230.6
102.5°	253.3
105°	253.3
107.5°	236.3
110°	204.9

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	170.8
115°	142.3
117.5°	119.6
120°	105.3
122.5°	93.9
125°	88.2
127.5°	82.5
130°	79.7
132.5°	76.9
135°	76.9
137.5°	79.7
140°	79.7
142.5°	82.5
145°	82.5
147.5°	82.5
150°	82.5
152.5°	82.5
155°	82.5
157.5°	79.7
160°	74.0
162.5°	71.2
165°	65.5
167.5°	62.6
170°	56.9
172.5°	51.2
175°	51.2
177.5°	51.2
180°	51.2

(END OF REPORT)