

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: P980711

Luminaire Tested: UHBS2-2436-N-L83065-HIGH-5000K-CLR3

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980711
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-344-3)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: UHBS2-2436-N-L83065-HIGH-5000K-CLR3
Description: UHBS2 LED High Bay at 5000K and HIGH lumen setting 3in Deep Clear Refractor
Light Source: -
Ballast/Driver: -

Summary

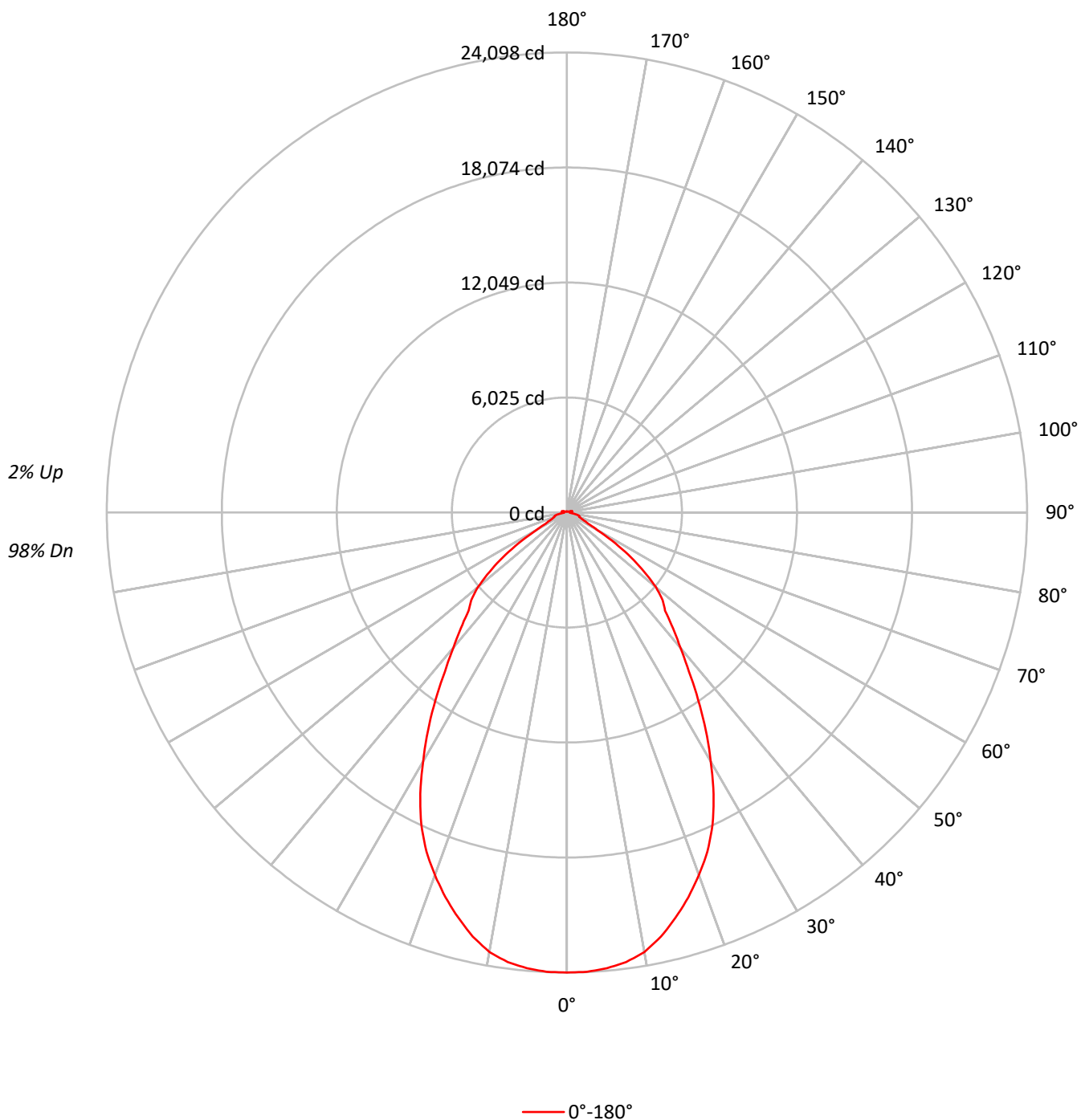
Lumens per Lamp: N/A
Luminaire Lumens: 36255.1 lumens
Efficiency: N/A
Efficacy: 155.3 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.03
Luminous Opening: Vertical Cylinder (Dia: 1.34' x H: 0.25')
CIE Type: Direct

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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	115	115	115	115	110	110	110		105	105	105		100	100	100	98
1	111	107	104	101	108	105	102	100	101	98	96		96	94	93		93	91	90	88
2	104	97	92	88	101	95	91	87	92	88	84		88	85	82		85	82	80	78
3	97	88	82	77	94	87	81	76	84	79	74		81	76	73		78	75	72	70
4	90	80	73	68	88	79	73	67	76	71	66		74	69	65		72	68	64	62
5	84	74	66	61	82	72	66	60	70	64	60		68	63	59		66	62	58	56
6	79	68	60	55	77	67	60	55	65	59	54		63	58	53		61	57	53	51
7	74	62	55	50	72	61	54	50	60	54	49		58	53	49		57	52	48	46
8	69	58	50	45	68	57	50	45	56	49	45		54	49	45		53	48	44	43
9	65	54	47	42	64	53	46	42	52	46	41		51	45	41		50	44	41	39
10	62	50	43	39	60	49	43	38	48	42	38		47	42	38		46	41	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	184758
5°	180673
10°	174638
15°	163971
20°	151765
25°	137384
30°	117285
35°	96172
40°	77053
45°	63659
50°	56562
55°	41066
60°	20075
65°	11727
70°	9654
75°	10009
80°	7250
85°	4350

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 63659 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2269.5	6.3
10°-20°	6166.6	17.0
20°-30°	8209.7	22.6
30°-40°	7493.5	20.7
40°-50°	5766.6	15.9
50°-60°	3594.1	9.9
60°-70°	1061.1	2.9
70°-80°	636.3	1.8
80°-90°	232.0	0.6
90°-100°	205.5	0.6
100°-110°	268.0	0.7
110°-120°	132.5	0.4
120°-130°	70.0	0.2
130°-140°	53.2	0.1
140°-150°	42.9	0.1
150°-160°	31.1	0.1
160°-170°	17.3	0.0
170°-180°	5.2	0.0
0°-30°	16645.8	45.9
0°-40°	24139.3	66.6
0°-60°	33500.0	92.4
0°-90°	35429.4	97.7
90°-120°	606.0	1.7
90°-150°	772.1	2.1
90°-180°	826.0	2.3
0°-180°	36255.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	24098	
5°	23965	###
15°	21976	6167
25°	18043	8210
35°	11988	7493
45°	7269	5767
55°	4117	3594
65°	976	1061
75°	638	636
85°	184	193
90°	136	78
95°	181	166
105°	267	268
115°	128	133
125°	77	70
135°	68	53
145°	68	43
155°	68	31
165°	59	17
175°	53	5
180°	56	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	24098.3
2.5°	24080.5
5°	23964.7
7.5°	23754.0
10°	23374.0
12.5°	22762.6
15°	21976.1
17.5°	21136.1
20°	20213.0
22.5°	19233.5
25°	18043.3
27.5°	16633.4
30°	15069.2
32.5°	13543.6
35°	11988.3
37.5°	10492.3
40°	9236.8
42.5°	8218.8
45°	7269.0
47.5°	6800.0
50°	6087.6
52.5°	5096.3
55°	4116.8
57.5°	3003.8
60°	1849.1
62.5°	1240.7
65°	976.5
67.5°	804.4
70°	712.4
72.5°	682.7
75°	638.1
77.5°	540.2
80°	385.9
82.5°	258.2
85°	184.0
87.5°	148.4
90°	136.5
92.5°	151.4
95°	181.1
97.5°	222.6
100°	261.2
102.5°	279.0
105°	267.1
107.5°	237.5
110°	195.9

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	157.3
115°	127.6
117.5°	103.9
120°	89.0
122.5°	80.1
125°	77.2
127.5°	74.2
130°	71.2
132.5°	68.3
135°	68.3
137.5°	68.3
140°	68.3
142.5°	68.3
145°	68.3
147.5°	68.3
150°	68.3
152.5°	68.3
155°	68.3
157.5°	65.3
160°	65.3
162.5°	62.3
165°	59.4
167.5°	59.4
170°	56.4
172.5°	53.4
175°	53.4
177.5°	56.4
180°	56.4

(END OF REPORT)