

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: P980710

Luminaire Tested: UHBS2-2436-N-L83065-HIGH-4000K-FRR6

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980710
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-344-9)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: UHBS2-2436-N-L83065-HIGH-4000K-FRR6
Description: UHBS2 LED High Bay at 4000K and HIGH lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

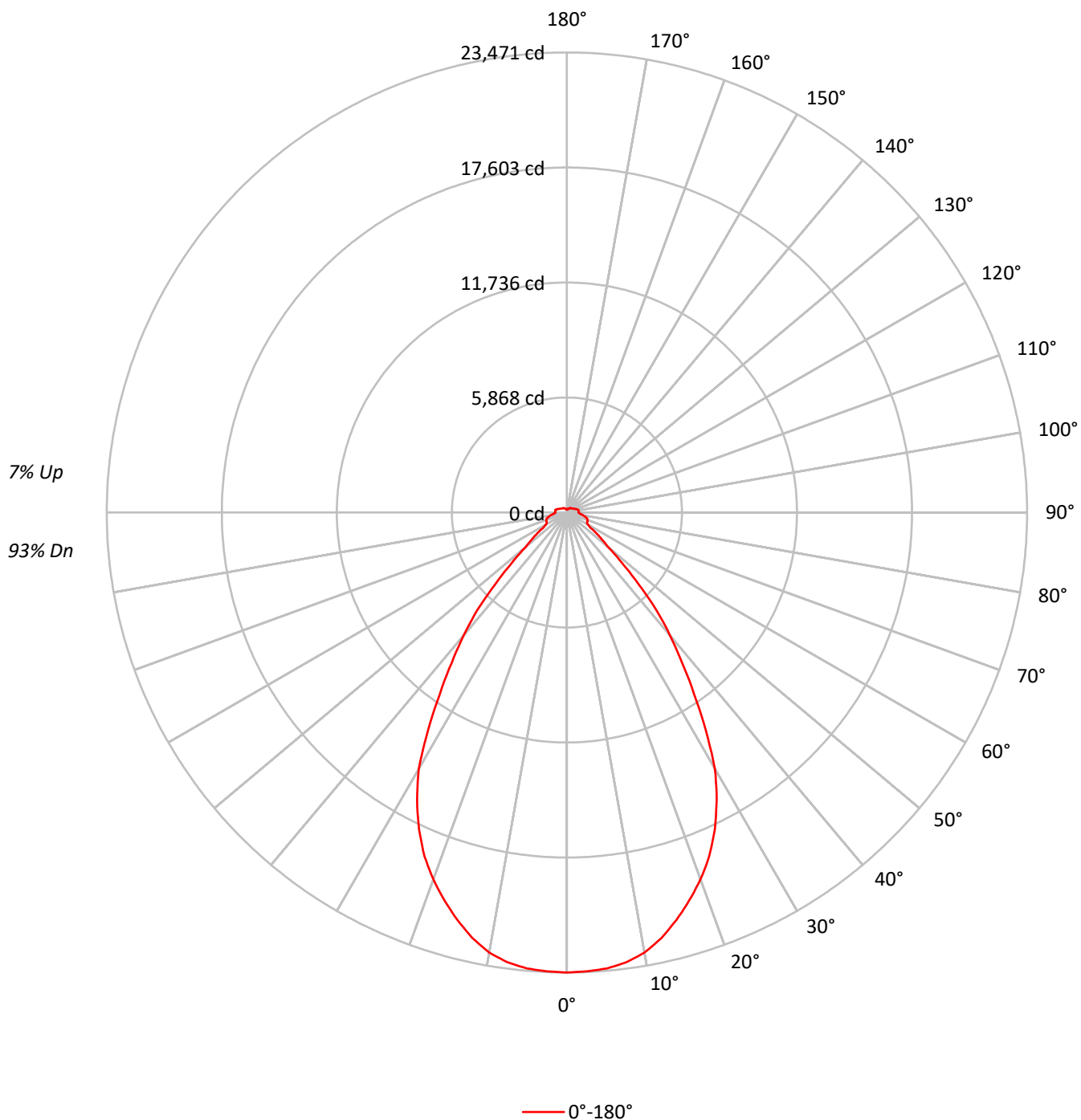
Lumens per Lamp: N/A
Luminaire Lumens: 34753.1 lumens
Efficiency: N/A
Efficacy: 149.7 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.01
Luminous Opening: Vertical Cylinder (Dia: 1.47' x H: 0.5')
CIE Type: Direct

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
RCR																	
0	117	117	117	117	114	114	114	114	107	107	107		101	101	101		95
1	109	105	102	99	106	102	99	97	97	94	92		92	90	88		87
2	102	95	90	85	99	93	88	84	88	84	81		84	81	78		80
3	95	87	80	75	92	85	79	74	81	76	72		77	73	70		74
4	89	79	72	67	86	78	71	66	74	69	65		71	67	63		69
5	83	73	66	60	81	71	65	60	69	63	58		66	61	57		64
6	78	67	60	55	76	66	59	54	64	58	53		61	56	52		59
7	73	62	55	50	71	61	54	50	59	53	49		57	52	48		55
8	69	58	51	46	67	57	50	46	55	49	45		53	48	44		52
9	65	54	47	42	64	53	47	42	52	46	42		50	45	41		49
10	62	50	44	39	60	50	43	39	48	43	39		47	42	38		46

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	148454
5°	142841
10°	136041
15°	126393
20°	115866
25°	103646
30°	88271
35°	67013
40°	49544
45°	32219
50°	17864
55°	12318
60°	8909
65°	8797
70°	9502
75°	9587
80°	8827
85°	8230

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 32219 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2211.6	6.4
10°-20°	6045.2	17.4
20°-30°	8137.0	23.4
30°-40°	7103.1	20.4
40°-50°	4051.3	11.7
50°-60°	1656.7	4.8
60°-70°	1142.5	3.3
70°-80°	1065.0	3.1
80°-90°	750.1	2.2
90°-100°	653.0	1.9
100°-110°	598.2	1.7
110°-120°	438.7	1.3
120°-130°	317.5	0.9
130°-140°	237.5	0.7
140°-150°	169.1	0.5
150°-160°	107.9	0.3
160°-170°	54.3	0.2
170°-180°	14.4	0.0
0°-30°	16393.8	47.2
0°-40°	23497.0	67.6
0°-60°	29205.0	84.0
0°-90°	32162.5	92.5
90°-120°	1689.9	4.9
90°-150°	2414.0	6.9
90°-180°	2591.0	7.5
0°-180°	34753.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	23471	
5°	23349	###
15°	21539	6045
25°	17846	8137
35°	11307	7103
45°	5160	4051
55°	1807	1657
65°	1133	1142
75°	1026	1065
85°	674	585
90°	587	326
95°	598	491
105°	572	598
115°	439	439
125°	352	318
135°	305	237
145°	267	169
155°	232	108
165°	192	54
175°	148	14
180°	145	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	23470.7
2.5°	23433.0
5°	23348.7
7.5°	23151.2
10°	22796.7
12.5°	22244.8
15°	21538.8
17.5°	20754.4
20°	19923.5
22.5°	18976.5
25°	17846.4
27.5°	16547.8
30°	15103.9
32.5°	13183.6
35°	11306.9
37.5°	9642.2
40°	8178.0
42.5°	6771.9
45°	5159.6
47.5°	3834.8
50°	2751.2
52.5°	2248.6
55°	1807.0
57.5°	1400.3
60°	1231.8
62.5°	1159.2
65°	1133.0
67.5°	1135.9
70°	1124.3
72.5°	1089.4
75°	1025.5
77.5°	935.5
80°	836.7
82.5°	749.5
85°	674.0
87.5°	615.9
90°	586.8
92.5°	592.7
95°	598.5
97.5°	607.2
100°	604.3
102.5°	592.7
105°	572.3
107.5°	540.4
110°	505.5



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	470.6
115°	438.7
117.5°	409.6
120°	386.4
122.5°	369.0
125°	351.5
127.5°	337.0
130°	325.4
132.5°	316.7
135°	305.0
137.5°	296.3
140°	287.6
142.5°	278.9
145°	267.3
147.5°	258.6
150°	249.8
152.5°	241.1
155°	232.4
157.5°	223.7
160°	212.1
162.5°	200.5
165°	191.7
167.5°	177.2
170°	162.7
172.5°	148.2
175°	148.2
177.5°	145.3
180°	145.3

(END OF REPORT)