

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: P980685

Luminaire Tested: UHBS2-2436-M-L83065-LOW-5000K-FRR3

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980685
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-344-5)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: UHBS2-2436-M-L83065-LOW-5000K-FRR3
Description: UHBS2 LED High Bay at 5000K and LOW lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

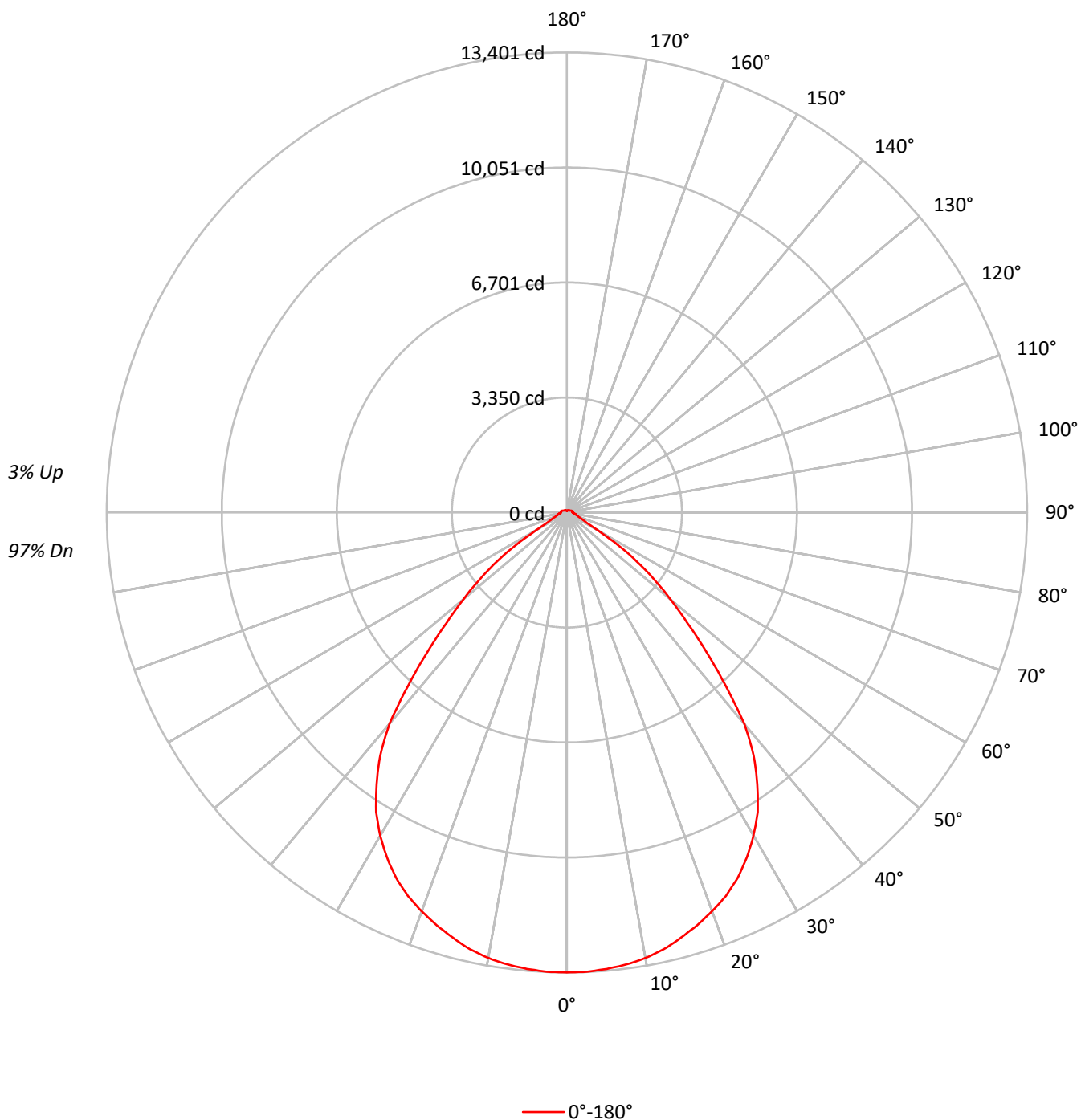
Lumens per Lamp: N/A
Luminaire Lumens: 24802.0 lumens
Efficiency: N/A
Efficacy: 161.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.22
Luminous Opening: Vertical Cylinder (Dia: 1.34' x H: 0.25')
CIE Type: Direct

Input Watts (W): 153.7
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 5.2
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	30	10
RCR																	
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99
1	111	107	104	101	108	105	102	99	100	98	96	96	94	92	92	90	89
2	103	97	92	87	101	95	90	86	91	87	84	87	84	81	84	82	79
3	96	88	81	76	94	86	80	75	83	78	74	80	76	72	77	74	71
4	89	80	73	67	87	78	72	67	76	70	65	73	68	64	71	67	63
5	83	73	65	60	81	72	65	59	69	63	59	67	62	58	65	61	57
6	78	67	59	54	76	66	58	53	64	57	53	62	56	52	60	55	51
7	73	61	54	48	71	60	53	48	59	52	48	57	51	47	55	50	47
8	68	56	49	44	67	56	49	44	54	48	43	53	47	43	51	46	42
9	64	52	45	40	63	51	45	40	50	44	40	49	43	39	48	43	39
10	60	48	41	37	59	48	41	37	47	41	36	46	40	36	45	39	36

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	102742
5°	100622
10°	98477
15°	95688
20°	92820
25°	89504
30°	84596
35°	77544
40°	67083
45°	50169
50°	36550
55°	24790
60°	11087
65°	6318
70°	4902
75°	4550
80°	4578
85°	4754

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 50169 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1268.9	5.1
10°-20°	3619.0	14.6
20°-30°	5395.5	21.8
30°-40°	5995.9	24.2
40°-50°	4468.0	18.0
50°-60°	2202.2	8.9
60°-70°	567.3	2.3
70°-80°	311.8	1.3
80°-90°	220.7	0.9
90°-100°	187.5	0.8
100°-110°	176.8	0.7
110°-120°	127.4	0.5
120°-130°	90.6	0.4
130°-140°	68.1	0.3
140°-150°	49.5	0.2
150°-160°	32.0	0.1
160°-170°	16.4	0.1
170°-180°	4.5	0.0
0°-30°	10283.4	41.5
0°-40°	16279.3	65.6
0°-60°	22949.4	92.5
0°-90°	24049.2	97.0
90°-120°	491.8	2.0
90°-150°	699.9	2.8
90°-180°	753.0	3.0
0°-180°	24802.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	13401	
5°	13347	###
15°	12824	3619
25°	11755	5395
35°	9666	5996
45°	5729	4468
55°	2485	2202
65°	526	567
75°	290	312
85°	201	173
90°	164	93
95°	172	142
105°	168	177
115°	128	127
125°	101	91
135°	87	68
145°	79	49
155°	70	32
165°	58	16
175°	44	4
180°	44	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	13400.8
2.5°	13391.2
5°	13346.7
7.5°	13280.9
10°	13180.4
12.5°	13033.4
15°	12824.5
17.5°	12607.9
20°	12362.3
22.5°	12089.6
25°	11755.0
27.5°	11341.1
30°	10869.2
32.5°	10341.2
35°	9666.2
37.5°	8935.2
40°	8041.7
42.5°	6838.7
45°	5728.6
47.5°	4748.0
50°	3933.8
52.5°	3204.7
55°	2485.2
57.5°	1761.9
60°	1021.2
62.5°	649.8
65°	526.1
67.5°	433.2
70°	361.7
72.5°	323.0
75°	290.1
77.5°	265.0
80°	243.7
82.5°	222.4
85°	201.1
87.5°	181.8
90°	164.4
92.5°	168.3
95°	172.1
97.5°	176.0
100°	177.9
102.5°	176.0
105°	168.3
107.5°	160.5
110°	148.9

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	137.3
115°	127.6
117.5°	118.0
120°	110.2
122.5°	104.4
125°	100.6
127.5°	96.7
130°	92.8
132.5°	90.9
135°	87.0
137.5°	85.1
140°	83.2
142.5°	81.2
145°	79.3
147.5°	75.4
150°	73.5
152.5°	71.6
155°	69.6
157.5°	65.8
160°	63.8
162.5°	60.0
165°	58.0
167.5°	54.2
170°	50.3
172.5°	46.4
175°	44.5
177.5°	46.4
180°	44.5

(END OF REPORT)