

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: P980682

Luminaire Tested: UHBS2-2436-M-L83065-LOW-4000K-FRR3

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980682
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-4000K-FRR3
Description: UHBS2 LED High Bay at 4000K and LOW lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

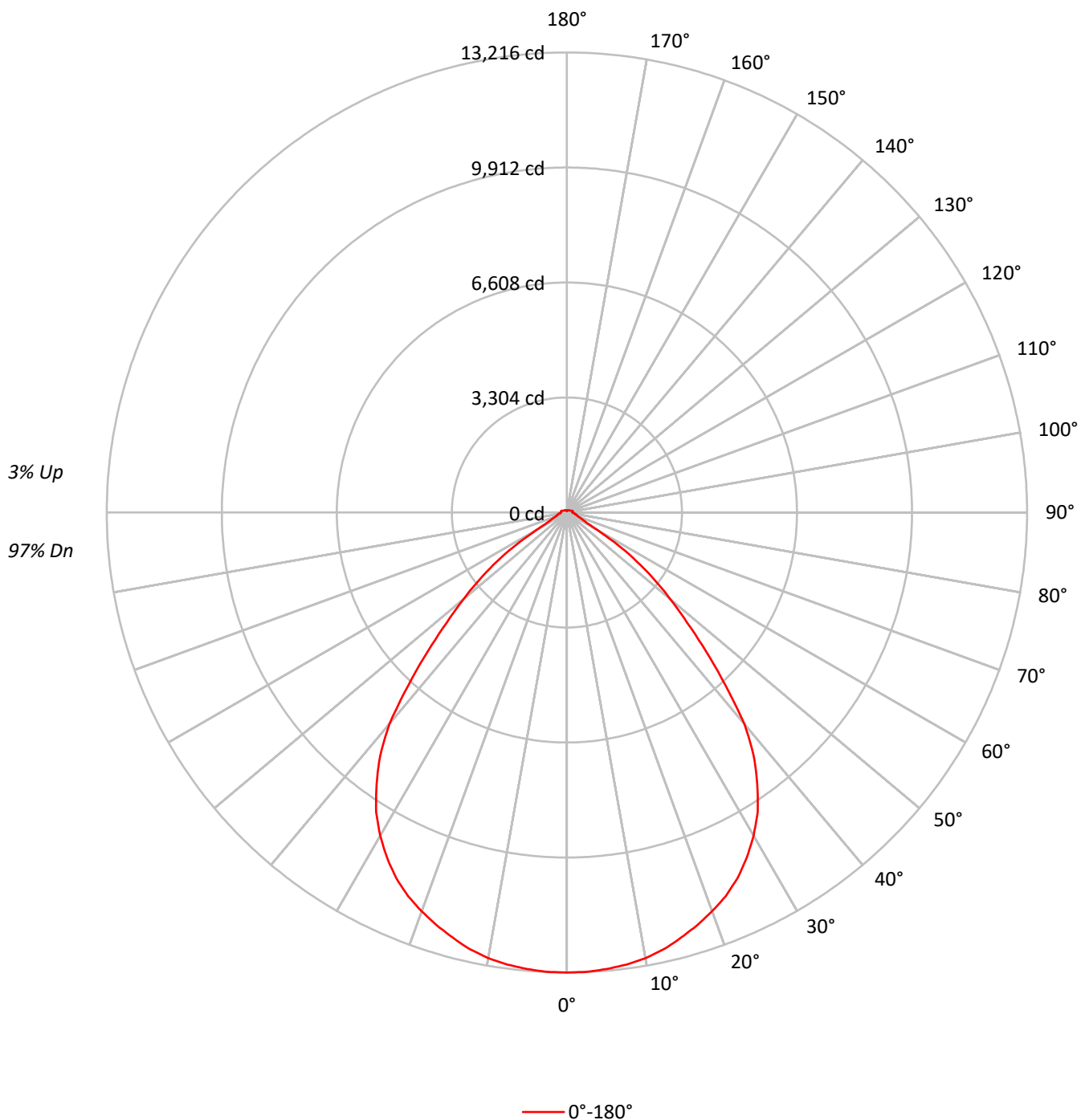
Lumens per Lamp: N/A
Luminaire Lumens: 24460.0 lumens
Efficiency: N/A
Efficacy: 160.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.22
Luminous Opening: Vertical Cylinder (Dia: 1.34' x H: 0.25')
CIE Type: Direct

Input Watts (W): 152.8
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
RCR																	
0	118	118	118	118	115	115	115	115	109	109	109		104	104	104		99
1	111	107	104	101	108	105	102	99	100	98	96		96	94	92		92
2	103	97	92	87	101	95	90	86	91	87	84		87	84	81		84
3	96	88	81	76	94	86	80	75	83	78	74		80	76	72		77
4	89	80	73	67	87	78	72	67	76	70	65		73	68	64		71
5	83	73	65	60	81	72	65	59	69	63	59		67	62	58		65
6	78	67	59	54	76	66	58	53	64	57	53		62	56	52		60
7	73	61	54	48	71	60	53	48	59	52	48		57	51	47		55
8	68	56	49	44	67	56	49	44	54	48	43		53	47	43		51
9	64	52	45	40	63	51	45	40	50	44	40		49	43	39		48
10	60	48	41	37	59	48	41	37	47	41	36		46	40	36		45

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	101326
5°	99235
10°	97119
15°	94369
20°	91540
25°	88270
30°	83429
35°	76475
40°	66158
45°	49477
50°	36047
55°	24449
60°	10934
65°	6231
70°	4834
75°	4488
80°	4514
85°	4690

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 49477 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1251.4	5.1
10°-20°	3569.1	14.6
20°-30°	5321.1	21.8
30°-40°	5913.2	24.2
40°-50°	4406.4	18.0
50°-60°	2171.8	8.9
60°-70°	559.4	2.3
70°-80°	307.5	1.3
80°-90°	217.6	0.9
90°-100°	184.9	0.8
100°-110°	174.4	0.7
110°-120°	125.7	0.5
120°-130°	89.4	0.4
130°-140°	67.1	0.3
140°-150°	48.8	0.2
150°-160°	31.6	0.1
160°-170°	16.2	0.1
170°-180°	4.4	0.0
0°-30°	10141.6	41.5
0°-40°	16054.8	65.6
0°-60°	22633.0	92.5
0°-90°	23717.6	97.0
90°-120°	485.0	2.0
90°-150°	690.3	2.8
90°-180°	742.0	3.0
0°-180°	24460.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	13216	
5°	13163	###
15°	12648	3569
25°	11593	5321
35°	9533	5913
45°	5650	4406
55°	2451	2172
65°	519	559
75°	286	308
85°	198	171
90°	162	92
95°	170	140
105°	166	174
115°	126	126
125°	99	89
135°	86	67
145°	78	49
155°	69	32
165°	57	16
175°	44	4
180°	44	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	13216.1
2.5°	13206.5
5°	13162.7
7.5°	13097.8
10°	12998.6
12.5°	12853.7
15°	12647.7
17.5°	12434.0
20°	12191.8
22.5°	11922.9
25°	11592.9
27.5°	11184.7
30°	10719.3
32.5°	10198.6
35°	9533.0
37.5°	8812.0
40°	7930.8
42.5°	6744.4
45°	5649.6
47.5°	4682.6
50°	3879.6
52.5°	3160.5
55°	2451.0
57.5°	1737.6
60°	1007.1
62.5°	640.9
65°	518.8
67.5°	427.2
70°	356.7
72.5°	318.5
75°	286.1
77.5°	261.3
80°	240.3
82.5°	219.3
85°	198.4
87.5°	179.3
90°	162.1
92.5°	165.9
95°	169.8
97.5°	173.6
100°	175.5
102.5°	173.6
105°	165.9
107.5°	158.3
110°	146.9

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	135.4
115°	125.9
117.5°	116.3
120°	108.7
122.5°	103.0
125°	99.2
127.5°	95.4
130°	91.6
132.5°	89.6
135°	85.8
137.5°	83.9
140°	82.0
142.5°	80.1
145°	78.2
147.5°	74.4
150°	72.5
152.5°	70.6
155°	68.7
157.5°	64.9
160°	62.9
162.5°	59.1
165°	57.2
167.5°	53.4
170°	49.6
172.5°	45.8
175°	43.9
177.5°	45.8
180°	43.9

(END OF REPORT)