

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: P980625

Luminaire Tested: UHBS2-1218-W-L83065-HIGH-5000K-FRR3

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980625
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-344-4)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: UHBS2-1218-W-L83065-HIGH-5000K-FRR3
Description: UHBS2 LED High Bay at 5000K and HIGH lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

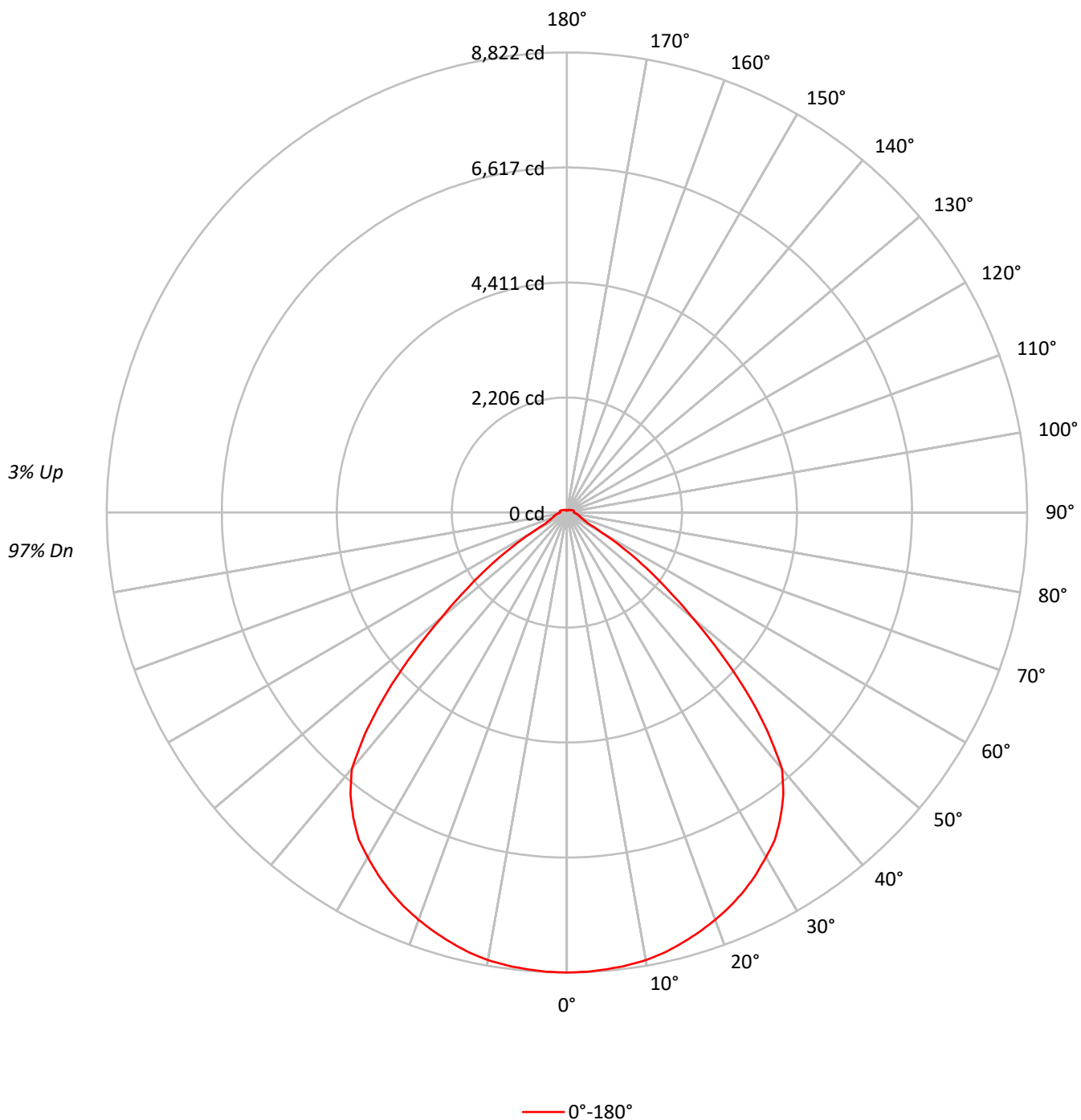
Lumens per Lamp: N/A
Luminaire Lumens: 18247.0 lumens
Efficiency: N/A
Efficacy: 153.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.31
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 0.25')
CIE Type: Direct

Input Watts (W): 119.2
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 6.9
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	104	101	99	100	97	95	95	93	92	91	90	88
2	103	96	91	86	100	94	89	85	90	86	83	87	83	80	83	81	78
3	95	87	80	75	93	85	79	74	82	77	73	79	75	71	76	73	70
4	89	79	72	66	86	77	71	65	75	69	64	72	67	63	70	65	62
5	82	72	64	58	80	70	63	58	68	62	57	66	60	56	64	59	55
6	77	65	58	52	75	64	57	52	62	56	51	60	55	50	59	54	50
7	72	60	52	47	70	59	52	46	57	51	46	56	50	45	54	49	45
8	67	55	47	42	65	54	47	42	53	46	42	51	45	41	50	45	41
9	63	51	43	38	61	50	43	38	49	42	38	47	42	38	46	41	37
10	59	47	40	35	58	46	40	35	45	39	35	44	38	34	43	38	34

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	88929
5°	86885
10°	85127
15°	83100
20°	81116
25°	79112
30°	76756
35°	73747
40°	68666
45°	54673
50°	37207
55°	23458
60°	10984
65°	5786
70°	4916
75°	4725
80°	4663
85°	4660

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 54673 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	837.0	4.6
10°-20°	2413.5	13.2
20°-30°	3693.7	20.2
30°-40°	4445.9	24.4
40°-50°	3711.0	20.3
50°-60°	1681.5	9.2
60°-70°	427.0	2.3
70°-80°	260.0	1.4
80°-90°	181.4	1.0
90°-100°	146.4	0.8
100°-110°	138.0	0.8
110°-120°	102.7	0.6
120°-130°	73.2	0.4
130°-140°	55.0	0.3
140°-150°	39.4	0.2
150°-160°	25.3	0.1
160°-170°	12.7	0.1
170°-180°	3.4	0.0
0°-30°	6944.2	38.1
0°-40°	11390.0	62.4
0°-60°	16782.6	92.0
0°-90°	17651.0	96.7
90°-120°	387.1	2.1
90°-150°	554.7	3.0
90°-180°	596.0	3.3
0°-180°	18247.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8822	
5°	8791	837
15°	8545	2414
25°	8018	3694
35°	7138	4446
45°	4882	3711
55°	1855	1682
65°	385	427
75°	245	260
85°	166	143
90°	130	74
95°	134	111
105°	131	138
115°	102	103
125°	82	73
135°	71	55
145°	62	39
155°	54	25
165°	44	13
175°	35	3
180°	33	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	8821.9
2.5°	8815.0
5°	8791.4
7.5°	8762.4
10°	8716.7
12.5°	8644.8
15°	8545.2
17.5°	8435.9
20°	8312.8
22.5°	8174.4
25°	8018.1
27.5°	7834.1
30°	7633.5
32.5°	7427.4
35°	7138.3
37.5°	6814.6
40°	6413.4
42.5°	5695.4
45°	4882.0
47.5°	3992.5
50°	3144.4
52.5°	2450.0
55°	1855.1
57.5°	1307.3
60°	802.4
62.5°	467.6
65°	384.6
67.5°	332.0
70°	291.9
72.5°	267.0
75°	244.9
77.5°	224.1
80°	204.7
82.5°	185.4
85°	166.0
87.5°	146.6
90°	130.0
92.5°	131.4
95°	134.2
97.5°	137.0
100°	138.3
102.5°	135.6
105°	131.4
107.5°	125.9
110°	119.0



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	110.7
115°	102.4
117.5°	95.5
120°	89.9
122.5°	84.4
125°	81.6
127.5°	77.5
130°	74.7
132.5°	73.3
135°	70.6
137.5°	69.2
140°	66.4
142.5°	65.0
145°	62.3
147.5°	60.9
150°	58.1
152.5°	56.7
155°	54.0
157.5°	52.6
160°	49.8
162.5°	47.0
165°	44.3
167.5°	41.5
170°	38.7
172.5°	34.6
175°	34.6
177.5°	34.6
180°	33.2

(END OF REPORT)