

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: P980628

Luminaire Tested: UHBS2-1218-W-L83065-HIGH-6500K-FRR3

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980628
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-6500K-FRR3
Description: UHBS2 LED High Bay at 6500K and HIGH lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

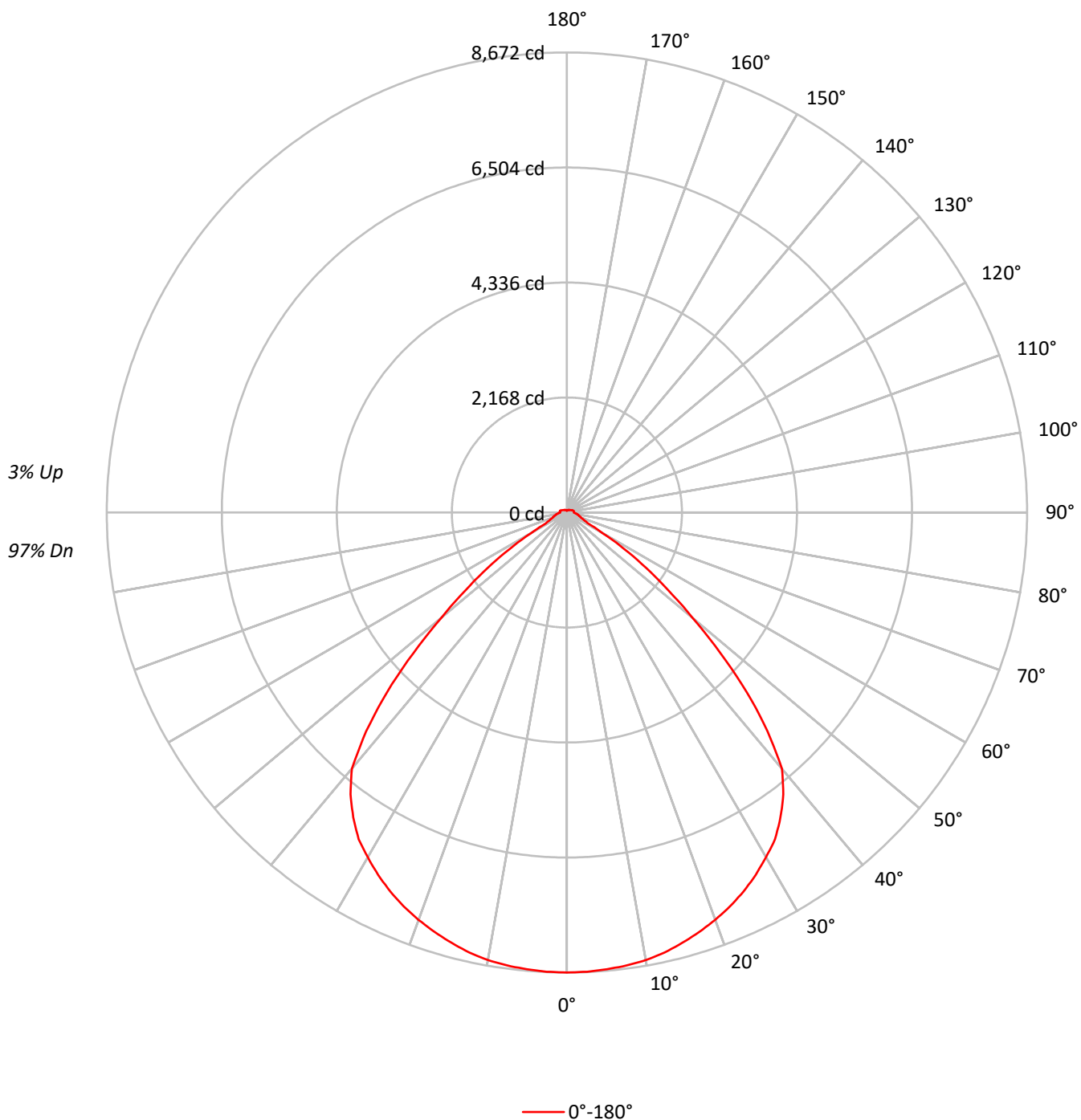
Lumens per Lamp: N/A
Luminaire Lumens: 17937.0 lumens
Efficiency: N/A
Efficacy: 146.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.31
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 0.25')
CIE Type: Direct

Input Watts (W): 122.1
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°	87418
5°	85410
10°	83680
15°	81688
20°	79738
25°	77768
30°	75453
35°	72494
40°	67499
45°	53743
50°	36575
55°	23059
60°	10796
65°	5687
70°	4832
75°	4644
80°	4586
85°	4581

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 53743 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	822.7	4.6
10°-20°	2372.5	13.2
20°-30°	3631.0	20.2
30°-40°	4370.3	24.4
40°-50°	3648.0	20.3
50°-60°	1653.0	9.2
60°-70°	419.7	2.3
70°-80°	255.6	1.4
80°-90°	178.3	1.0
90°-100°	143.9	0.8
100°-110°	135.7	0.8
110°-120°	100.9	0.6
120°-130°	72.0	0.4
130°-140°	54.1	0.3
140°-150°	38.8	0.2
150°-160°	24.8	0.1
160°-170°	12.5	0.1
170°-180°	3.3	0.0
0°-30°	6826.2	38.1
0°-40°	11196.5	62.4
0°-60°	16497.5	92.0
0°-90°	17351.1	96.7
90°-120°	380.5	2.1
90°-150°	545.3	3.0
90°-180°	586.0	3.3
0°-180°	17937.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8672	
5°	8642	823
15°	8400	2373
25°	7882	3631
35°	7017	4370
45°	4799	3648
55°	1824	1653
65°	378	420
75°	241	256
85°	163	141
90°	128	72
95°	132	109
105°	129	136
115°	101	101
125°	80	72
135°	69	54
145°	61	39
155°	53	25
165°	44	12
175°	34	3
180°	33	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	8672.0
2.5°	8665.2
5°	8642.1
7.5°	8613.5
10°	8568.6
12.5°	8497.9
15°	8400.0
17.5°	8292.6
20°	8171.6
22.5°	8035.6
25°	7881.9
27.5°	7701.0
30°	7503.9
32.5°	7301.2
35°	7017.0
37.5°	6698.8
40°	6304.4
42.5°	5598.7
45°	4799.0
47.5°	3924.6
50°	3091.0
52.5°	2408.4
55°	1823.6
57.5°	1285.1
60°	788.7
62.5°	459.6
65°	378.0
67.5°	326.4
70°	286.9
72.5°	262.5
75°	240.7
77.5°	220.3
80°	201.3
82.5°	182.2
85°	163.2
87.5°	144.1
90°	127.8
92.5°	129.2
95°	131.9
97.5°	134.6
100°	136.0
102.5°	133.3
105°	129.2
107.5°	123.7
110°	117.0

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	108.8
115°	100.6
117.5°	93.8
120°	88.4
122.5°	83.0
125°	80.2
127.5°	76.2
130°	73.4
132.5°	72.1
135°	69.4
137.5°	68.0
140°	65.3
142.5°	63.9
145°	61.2
147.5°	59.8
150°	57.1
152.5°	55.8
155°	53.0
157.5°	51.7
160°	49.0
162.5°	46.2
165°	43.5
167.5°	40.8
170°	38.1
172.5°	34.0
175°	34.0
177.5°	34.0
180°	32.6

(END OF REPORT)