

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: P980629

Luminaire Tested: UHBS2-1218-W-L83065-HIGH-6500K-FRR6

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980629
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-344-7)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: UHBS2-1218-W-L83065-HIGH-6500K-FRR6
Description: UHBS2 LED High Bay at 6500K and HIGH lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

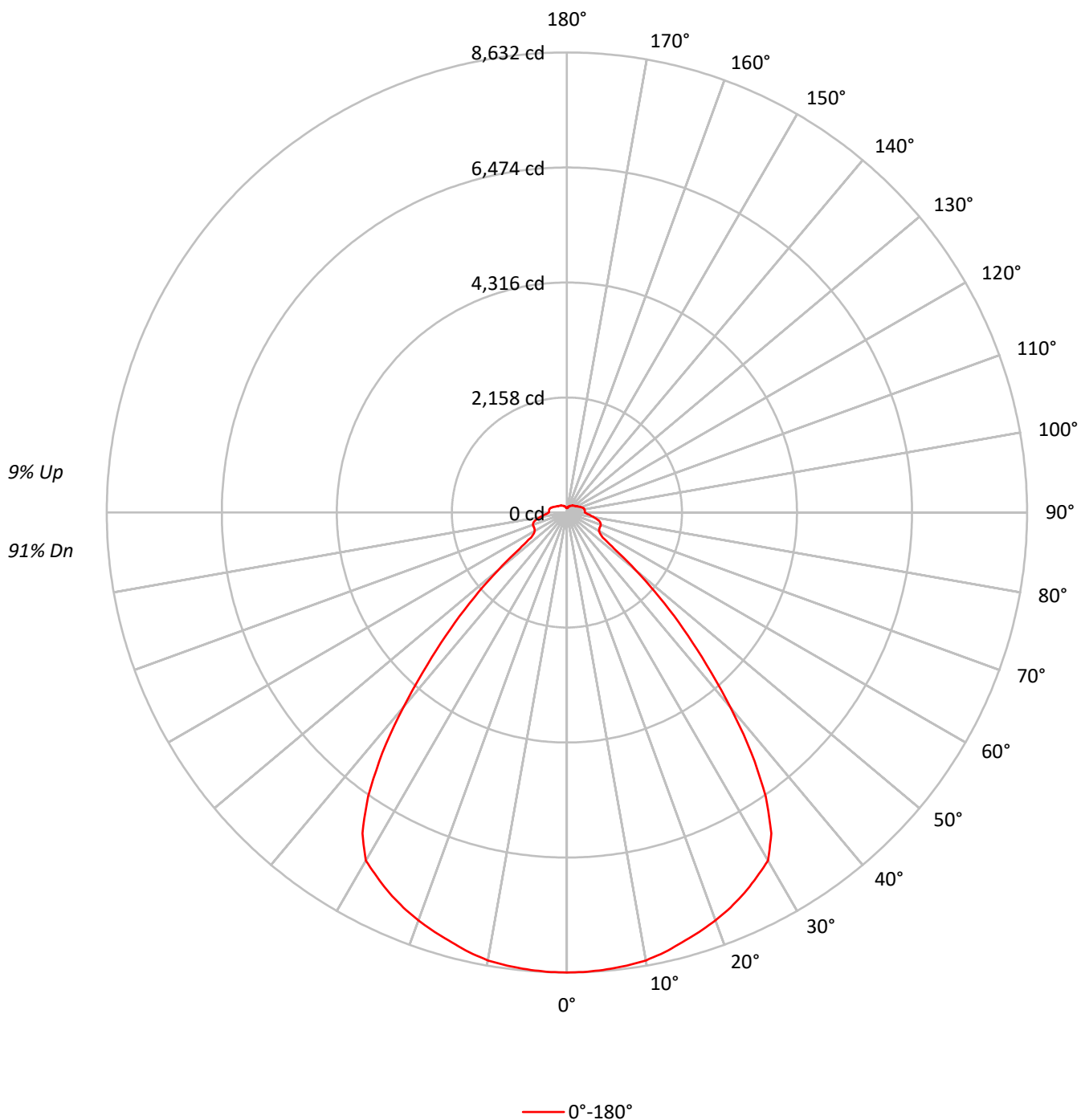
Lumens per Lamp: N/A
Luminaire Lumens: 17300.0 lumens
Efficiency: N/A
Efficacy: 141.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.18
Luminous Opening: Vertical Cylinder (Dia: 1.3' x H: 0.5')
CIE Type: Direct

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

TEST NUMBER: P980629

CATALOG NUMBER: UHBS2-1218-W-L83065-HIGH-6500K-FRR6

Luminous Intensity Polar Plot



TEST NUMBER: P980629

CATALOG NUMBER: UHBS2-1218-W-L83065-HIGH-6500K-FRR6

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	113	113	113	113	106	106	106		100	100	100		94
1	108	104	101	97	105	101	98	95	95	93	90		90	88	86		85
2	100	94	88	83	97	91	86	81	86	82	78		82	78	75		78
3	93	85	78	72	90	82	76	71	78	73	69		75	70	67		71
4	87	77	69	64	84	75	68	63	72	66	61		68	63	60		65
5	81	70	62	57	78	68	61	56	66	59	55		63	58	53		60
6	76	64	57	51	73	63	56	50	60	54	49		58	53	48		56
7	71	59	51	46	69	58	51	46	56	49	45		54	48	44		52
8	66	55	47	42	64	53	46	42	52	45	41		50	44	40		48
9	62	50	43	38	61	50	43	38	48	42	37		46	41	37		45
10	59	47	40	35	57	46	39	35	45	39	34		43	38	34		42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	69894
5°	67071
10°	64594
15°	61885
20°	59566
25°	57301
30°	54983
35°	47867
40°	35781
45°	23738
50°	13461
55°	6840
60°	6099
65°	6329
70°	6836
75°	6975
80°	6375
85°	5667

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 23738 cd/sqm

TEST NUMBER: P980629

CATALOG NUMBER: UHBS2-1218-W-L83065-HIGH-6500K-FRR6

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	819.3	4.7
10°-20°	2361.0	13.6
20°-30°	3631.6	21.0
30°-40°	3967.8	22.9
40°-50°	2397.1	13.9
50°-60°	861.0	5.0
60°-70°	675.9	3.9
70°-80°	651.7	3.8
80°-90°	449.0	2.6
90°-100°	366.4	2.1
100°-110°	335.4	1.9
110°-120°	254.7	1.5
120°-130°	187.6	1.1
130°-140°	140.1	0.8
140°-150°	98.9	0.6
150°-160°	62.9	0.4
160°-170°	31.4	0.2
170°-180°	8.1	0.0
0°-30°	6811.8	39.4
0°-40°	10779.6	62.3
0°-60°	14037.7	81.1
0°-90°	15814.4	91.4
90°-120°	956.5	5.5
90°-150°	1383.2	8.0
90°-180°	1486.0	8.6
0°-180°	17300.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8632	
5°	8605	819
15°	8350	2361
25°	7877	3632
35°	6502	3968
45°	3087	2397
55°	823	861
65°	677	676
75°	630	652
85°	402	353
90°	338	188
95°	335	274
105°	320	335
115°	255	255
125°	208	188
135°	181	140
145°	157	99
155°	135	63
165°	110	31
175°	83	8
180°	82	

TEST NUMBER: P980629

CATALOG NUMBER: UHBS2-1218-W-L83065-HIGH-6500K-FRR6

CANDELA DISTRIBUTION (FULL):

0°	
0°	8632.0
2.5°	8626.6
5°	8605.2
7.5°	8577.0
10°	8534.1
12.5°	8453.7
15°	8350.5
17.5°	8252.6
20°	8144.0
22.5°	8022.0
25°	7877.3
27.5°	7712.4
30°	7542.1
32.5°	7137.3
35°	6501.8
37.5°	5686.7
40°	4775.1
42.5°	3868.9
45°	3087.4
47.5°	2358.1
50°	1691.8
52.5°	1116.7
55°	823.1
57.5°	740.0
60°	695.8
62.5°	682.4
65°	677.0
67.5°	678.3
70°	677.0
72.5°	662.2
75°	630.1
77.5°	577.8
80°	516.1
82.5°	455.8
85°	402.2
87.5°	362.0
90°	337.8
92.5°	335.1
95°	335.1
97.5°	336.5
100°	335.1
102.5°	329.8
105°	320.4
107.5°	305.7
110°	288.2

TEST NUMBER: P980629

CATALOG NUMBER: UHBS2-1218-W-L83065-HIGH-6500K-FRR6

CANDELA DISTRIBUTION (continued):

	0°
112.5°	272.1
115°	254.7
117.5°	240.0
120°	227.9
122.5°	217.2
125°	207.8
127.5°	199.7
130°	193.0
132.5°	186.3
135°	181.0
137.5°	174.3
140°	168.9
142.5°	162.2
145°	156.8
147.5°	151.5
150°	146.1
152.5°	140.8
155°	135.4
157.5°	130.0
160°	123.3
162.5°	116.6
165°	109.9
167.5°	101.9
170°	93.8
172.5°	83.1
175°	83.1
177.5°	81.8
180°	81.8

(END OF REPORT)