

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: P980627

Luminaire Tested: UHBS2-1218-W-L83065-HIGH-6500K-CLR3

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980627
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-344-1)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: UHBS2-1218-W-L83065-HIGH-6500K-CLR3
Description: UHBS2 LED High Bay at 6500K and HIGH lumen setting 3in Deep Clear Refractor
Light Source: -
Ballast/Driver: -

Summary

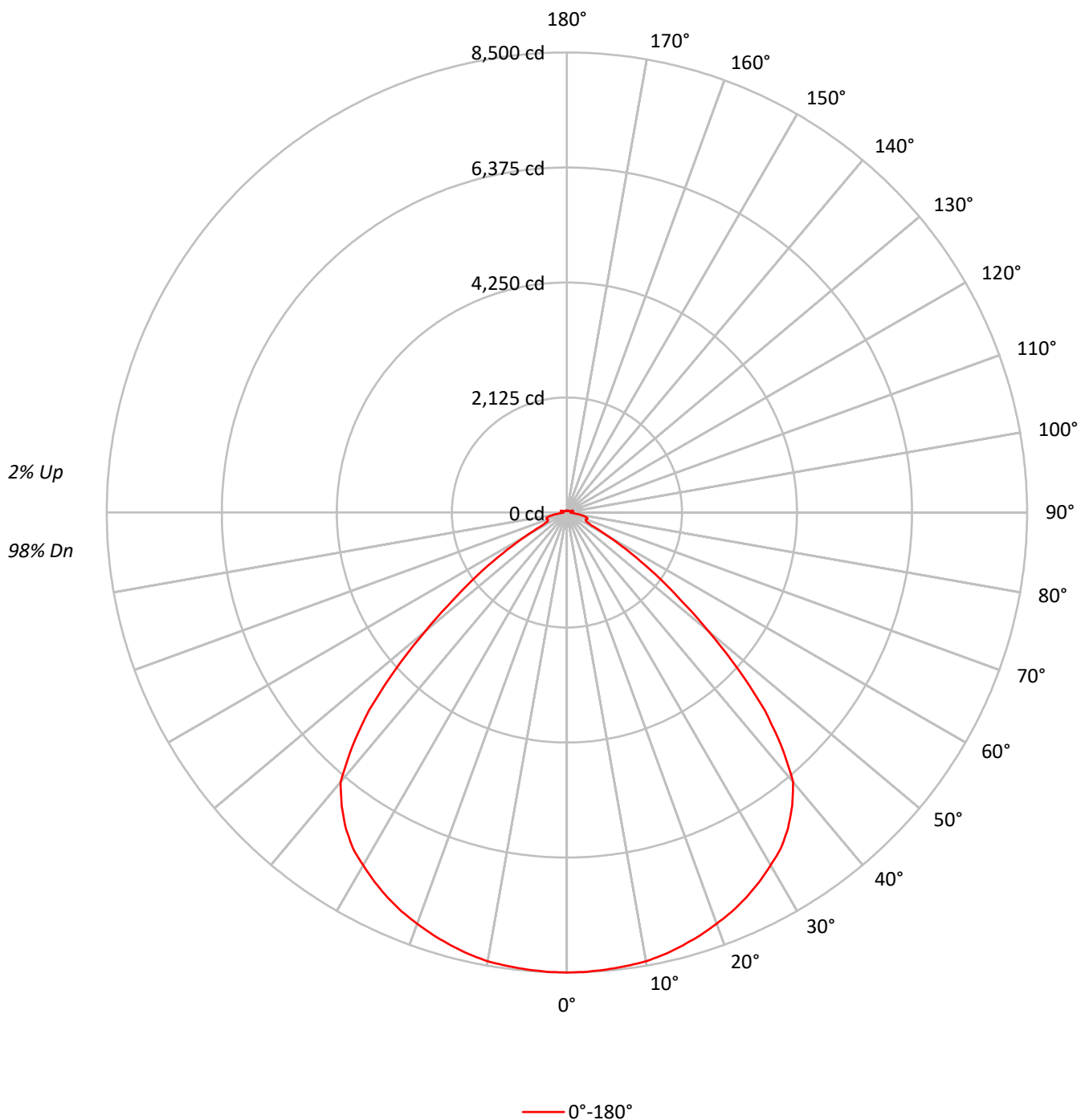
Lumens per Lamp: N/A
Luminaire Lumens: 18302.0 lumens
Efficiency: N/A
Efficacy: 149.9 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.31 / 1.34
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 0.25')
CIE Type: Direct

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

TEST NUMBER: P980627

CATALOG NUMBER: UHBS2-1218-W-L83065-HIGH-6500K-CLR3

Luminous Intensity Polar Plot



TEST NUMBER: P980627

CATALOG NUMBER: UHBS2-1218-W-L83065-HIGH-6500K-CLR3

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20
RC	80					70					30					10					0
RW	70	50	30	10		70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																					
0	119	119	119	119		116	116	116	116		110	110	110		105	105	105		100	100	100
1	111	107	104	101		108	105	102	99		100	98	95		96	94	92		92	90	89
2	103	96	91	86		100	94	89	85		90	86	83		87	84	81		84	81	79
3	95	87	80	75		93	85	79	74		82	77	72		79	75	71		76	73	69
4	88	78	71	65		86	77	70	65		74	68	64		72	67	63		70	65	62
5	82	71	63	58		80	70	63	57		68	61	57		66	60	56		64	59	55
6	76	65	57	51		74	64	56	51		62	55	50		60	54	50		58	53	49
7	71	59	51	46		69	58	51	46		57	50	45		55	49	45		54	48	44
8	67	54	47	41		65	54	46	41		52	46	41		51	45	41		50	44	40
9	62	50	43	38		61	49	42	37		48	42	37		47	41	37		46	41	37
10	58	46	39	34		57	46	39	34		45	38	34		44	38	34		43	37	34

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	85690
5°	83755
10°	82232
15°	80511
20°	78902
25°	77421
30°	75676
35°	73556
40°	69608
45°	57833
50°	40427
55°	25313
60°	11980
65°	6031
70°	6408
75°	7499
80°	5759
85°	2936

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 57833 cd/sqm

TEST NUMBER: P980627

CATALOG NUMBER: UHBS2-1218-W-L83065-HIGH-6500K-CLR3

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	807.3	4.4
10°-20°	2339.6	12.8
20°-30°	3617.0	19.8
30°-40°	4435.7	24.2
40°-50°	3895.8	21.3
50°-60°	1816.5	9.9
60°-70°	471.9	2.6
70°-80°	380.9	2.1
80°-90°	136.5	0.7
90°-100°	88.4	0.5
100°-110°	121.4	0.7
110°-120°	69.9	0.4
120°-130°	38.3	0.2
130°-140°	29.0	0.2
140°-150°	24.6	0.1
150°-160°	17.9	0.1
160°-170°	9.1	0.0
170°-180°	2.4	0.0
0°-30°	6763.8	37.0
0°-40°	11199.5	61.2
0°-60°	16911.7	92.4
0°-90°	17901.1	97.8
90°-120°	279.7	1.5
90°-150°	371.6	2.0
90°-180°	401.0	2.2
0°-180°	18302.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8500	
5°	8475	807
15°	8279	2340
25°	7847	3617
35°	7120	4436
45°	5164	3896
55°	2002	1816
65°	401	472
75°	389	381
85°	105	118
90°	62	37
95°	78	71
105°	121	121
115°	68	70
125°	42	38
135°	37	29
145°	39	25
155°	39	18
165°	31	9
175°	24	2
180°	24	

TEST NUMBER: P980627

CATALOG NUMBER: UHBS2-1218-W-L83065-HIGH-6500K-CLR3

CANDELA DISTRIBUTION (FULL):

0°	
0°	8500.5
2.5°	8493.7
5°	8474.7
7.5°	8450.2
10°	8420.3
12.5°	8359.2
15°	8279.0
17.5°	8190.7
20°	8086.0
22.5°	7977.3
25°	7846.8
27.5°	7693.3
30°	7526.1
32.5°	7357.6
35°	7119.8
37.5°	6833.0
40°	6501.4
42.5°	5872.2
45°	5164.2
47.5°	4295.8
50°	3416.5
52.5°	2639.2
55°	2001.8
57.5°	1407.9
60°	875.2
62.5°	508.3
65°	400.9
67.5°	375.1
70°	380.5
72.5°	395.5
75°	388.7
77.5°	341.1
80°	252.8
82.5°	163.1
85°	104.6
87.5°	76.1
90°	62.5
92.5°	66.6
95°	77.5
97.5°	93.8
100°	110.1
102.5°	121.0
105°	121.0
107.5°	112.8
110°	97.8



TEST NUMBER: P980627

CATALOG NUMBER: UHBS2-1218-W-L83065-HIGH-6500K-CLR3

CANDELA DISTRIBUTION (continued):

	0°
112.5°	81.5
115°	67.9
117.5°	57.1
120°	50.3
122.5°	44.8
125°	42.1
127.5°	39.4
130°	38.1
132.5°	36.7
135°	36.7
137.5°	38.1
140°	38.1
142.5°	39.4
145°	39.4
147.5°	39.4
150°	39.4
152.5°	39.4
155°	39.4
157.5°	38.1
160°	35.3
162.5°	34.0
165°	31.3
167.5°	29.9
170°	27.2
172.5°	24.5
175°	24.5
177.5°	24.5
180°	24.5

(END OF REPORT)