

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: P980641

Luminaire Tested: UHBS2-1218-W-L83065-LOW-5000K-FRR6

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980641
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-LOW-5000K-FRR6
Description: UHBS2 LED High Bay at 5000K and LOW lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

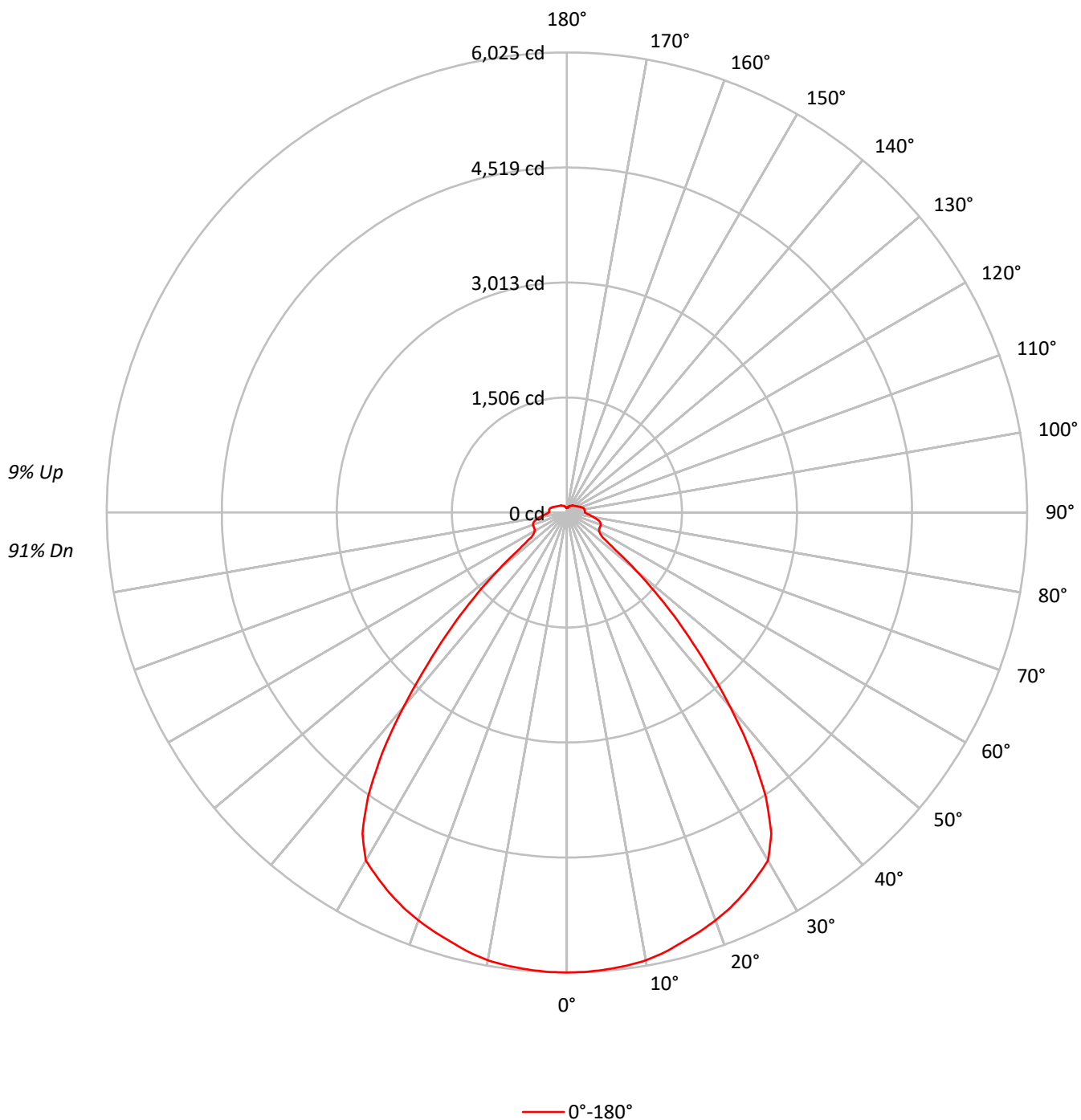
Lumens per Lamp: N/A
Luminaire Lumens: 12074.9 lumens
Efficiency: N/A
Efficacy: 152.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.18
Luminous Opening: Vertical Cylinder (Dia: 1.3' x H: 0.5')
CIE Type: Direct

Input Watts (W): 79
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 7.2
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P980641

CATALOG NUMBER: UHBS2-1218-W-L83065-LOW-5000K-FRR6

Luminous Intensity Polar Plot



TEST NUMBER: P980641

CATALOG NUMBER: UHBS2-1218-W-L83065-LOW-5000K-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°	48784
5°	46814
10°	45085
15°	43194
20°	41575
25°	39995
30°	38376
35°	33410
40°	24974
45°	16568
50°	9395
55°	4774
60°	4256
65°	4417
70°	4771
75°	4868
80°	4449
85°	3955

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 16568 cd/sqm

TEST NUMBER: P980641

CATALOG NUMBER: UHBS2-1218-W-L83065-LOW-5000K-FRR6

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	571.8	4.7
10°-20°	1647.9	13.6
20°-30°	2534.7	21.0
30°-40°	2769.5	22.9
40°-50°	1673.1	13.9
50°-60°	601.0	5.0
60°-70°	471.8	3.9
70°-80°	454.9	3.8
80°-90°	313.3	2.6
90°-100°	255.7	2.1
100°-110°	234.1	1.9
110°-120°	177.8	1.5
120°-130°	130.9	1.1
130°-140°	97.8	0.8
140°-150°	69.0	0.6
150°-160°	43.9	0.4
160°-170°	21.9	0.2
170°-180°	5.7	0.0
0°-30°	4754.5	39.4
0°-40°	7523.9	62.3
0°-60°	9798.0	81.1
0°-90°	11038.0	91.4
90°-120°	667.6	5.5
90°-150°	965.4	8.0
90°-180°	1037.0	8.6
0°-180°	12074.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6025	
5°	6006	572
15°	5828	1648
25°	5498	2535
35°	4538	2769
45°	2155	1673
55°	574	601
65°	472	472
75°	440	455
85°	281	246
90°	236	131
95°	234	191
105°	224	234
115°	178	178
125°	145	131
135°	126	98
145°	110	69
155°	94	44
165°	77	22
175°	58	6
180°	57	

TEST NUMBER: P980641

CATALOG NUMBER: UHBS2-1218-W-L83065-LOW-5000K-FRR6

CANDELA DISTRIBUTION (FULL):

0°	
0°	6024.9
2.5°	6021.2
5°	6006.2
7.5°	5986.6
10°	5956.6
12.5°	5900.5
15°	5828.4
17.5°	5760.1
20°	5684.3
22.5°	5599.2
25°	5498.1
27.5°	5383.0
30°	5264.2
32.5°	4981.6
35°	4538.1
37.5°	3969.2
40°	3332.9
42.5°	2700.4
45°	2154.9
47.5°	1645.9
50°	1180.8
52.5°	779.4
55°	574.5
57.5°	516.5
60°	485.6
62.5°	476.3
65°	472.5
67.5°	473.5
70°	472.5
72.5°	462.2
75°	439.8
77.5°	403.3
80°	360.2
82.5°	318.1
85°	280.7
87.5°	252.6
90°	235.8
92.5°	233.9
95°	233.9
97.5°	234.9
100°	233.9
102.5°	230.2
105°	223.6
107.5°	213.3
110°	201.2

TEST NUMBER: P980641

CATALOG NUMBER: UHBS2-1218-W-L83065-LOW-5000K-FRR6

CANDELA DISTRIBUTION (continued):

	0°
112.5°	189.9
115°	177.8
117.5°	167.5
120°	159.1
122.5°	151.6
125°	145.0
127.5°	139.4
130°	134.7
132.5°	130.1
135°	126.3
137.5°	121.6
140°	117.9
142.5°	113.2
145°	109.5
147.5°	105.7
150°	102.0
152.5°	98.2
155°	94.5
157.5°	90.8
160°	86.1
162.5°	81.4
165°	76.7
167.5°	71.1
170°	65.5
172.5°	58.0
175°	58.0
177.5°	57.1
180°	57.1

(END OF REPORT)