

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: P980617

Luminaire Tested: UHBS2-1218-W-L83065-HIGH-3000K-FRR6

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980617
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-3000K-FRR6
Description: UHBS2 LED High Bay at 3000K and HIGH lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

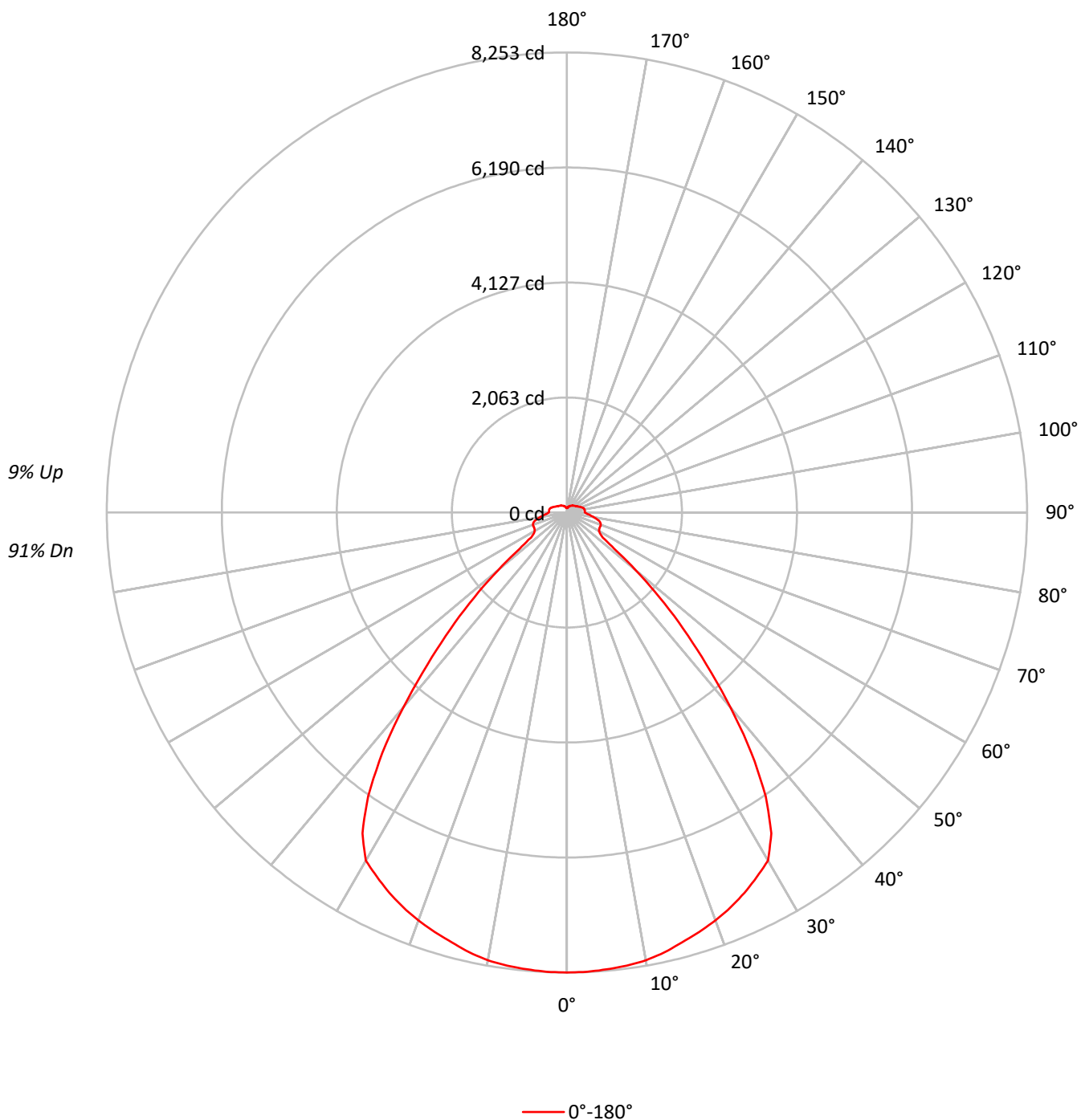
Lumens per Lamp: N/A
Luminaire Lumens: 16540.1 lumens
Efficiency: N/A
Efficacy: 135.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.18
Luminous Opening: Vertical Cylinder (Dia: 1.3' x H: 0.5')
CIE Type: Direct

Input Watts (W): 122
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: P980617

CATALOG NUMBER: UHBS2-1218-W-L83065-HIGH-3000K-FRR6

Luminous Intensity Polar Plot



TEST NUMBER: P980617

CATALOG NUMBER: UHBS2-1218-W-L83065-HIGH-3000K-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°	66823
5°	64125
10°	61756
15°	59166
20°	56949
25°	54784
30°	52567
35°	45765
40°	34210
45°	22695
50°	12870
55°	6540
60°	5831
65°	6051
70°	6536
75°	6668
80°	6094
85°	5418

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 22695 cd/sqm

TEST NUMBER: P980617

CATALOG NUMBER: UHBS2-1218-W-L83065-HIGH-3000K-FRR6

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	783.3	4.7
10°-20°	2257.2	13.6
20°-30°	3472.0	21.0
30°-40°	3793.5	22.9
40°-50°	2291.8	13.9
50°-60°	823.2	5.0
60°-70°	646.2	3.9
70°-80°	623.1	3.8
80°-90°	429.3	2.6
90°-100°	350.3	2.1
100°-110°	320.7	1.9
110°-120°	243.5	1.5
120°-130°	179.4	1.1
130°-140°	134.0	0.8
140°-150°	94.6	0.6
150°-160°	60.1	0.4
160°-170°	30.0	0.2
170°-180°	7.8	0.0
0°-30°	6512.6	39.4
0°-40°	10306.1	62.3
0°-60°	13421.1	81.1
0°-90°	15119.7	91.4
90°-120°	914.5	5.5
90°-150°	1322.4	8.0
90°-180°	1420.0	8.6
0°-180°	16540.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8253	
5°	8227	783
15°	7984	2257
25°	7531	3472
35°	6216	3794
45°	2952	2292
55°	787	823
65°	647	646
75°	602	623
85°	384	338
90°	323	180
95°	320	262
105°	306	321
115°	244	244
125°	199	179
135°	173	134
145°	150	95
155°	130	60
165°	105	30
175°	80	8
180°	78	

TEST NUMBER: P980617

CATALOG NUMBER: UHBS2-1218-W-L83065-HIGH-3000K-FRR6

CANDELA DISTRIBUTION (FULL):

0°	
0°	8252.8
2.5°	8247.7
5°	8227.2
7.5°	8200.2
10°	8159.2
12.5°	8082.3
15°	7983.6
17.5°	7890.1
20°	7786.3
22.5°	7669.6
25°	7531.2
27.5°	7373.6
30°	7210.8
32.5°	6823.7
35°	6216.2
37.5°	5436.9
40°	4565.4
42.5°	3699.0
45°	2951.7
47.5°	2254.5
50°	1617.5
52.5°	1067.6
55°	787.0
57.5°	707.5
60°	665.2
62.5°	652.4
65°	647.3
67.5°	648.5
70°	647.3
72.5°	633.2
75°	602.4
77.5°	552.4
80°	493.4
82.5°	435.8
85°	384.5
87.5°	346.1
90°	323.0
92.5°	320.4
95°	320.4
97.5°	321.7
100°	320.4
102.5°	315.3
105°	306.3
107.5°	292.2
110°	275.6

TEST NUMBER: P980617

CATALOG NUMBER: UHBS2-1218-W-L83065-HIGH-3000K-FRR6

CANDELA DISTRIBUTION (continued):

	0°
112.5°	260.2
115°	243.5
117.5°	229.4
120°	217.9
122.5°	207.6
125°	198.7
127.5°	191.0
130°	184.6
132.5°	178.2
135°	173.0
137.5°	166.6
140°	161.5
142.5°	155.1
145°	150.0
147.5°	144.8
150°	139.7
152.5°	134.6
155°	129.5
157.5°	124.3
160°	117.9
162.5°	111.5
165°	105.1
167.5°	97.4
170°	89.7
172.5°	79.5
175°	79.5
177.5°	78.2
180°	78.2

(END OF REPORT)