

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: P980585

Luminaire Tested: UHBS2-1218-N-L83065-HIGH-3000K-CLR3

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980585
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-344-3)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: UHBS2-1218-N-L83065-HIGH-3000K-CLR3
Description: UHBS2 LED High Bay at 3000K and HIGH lumen setting 3in Deep Clear Refractor
Light Source: -
Ballast/Driver: -

Summary

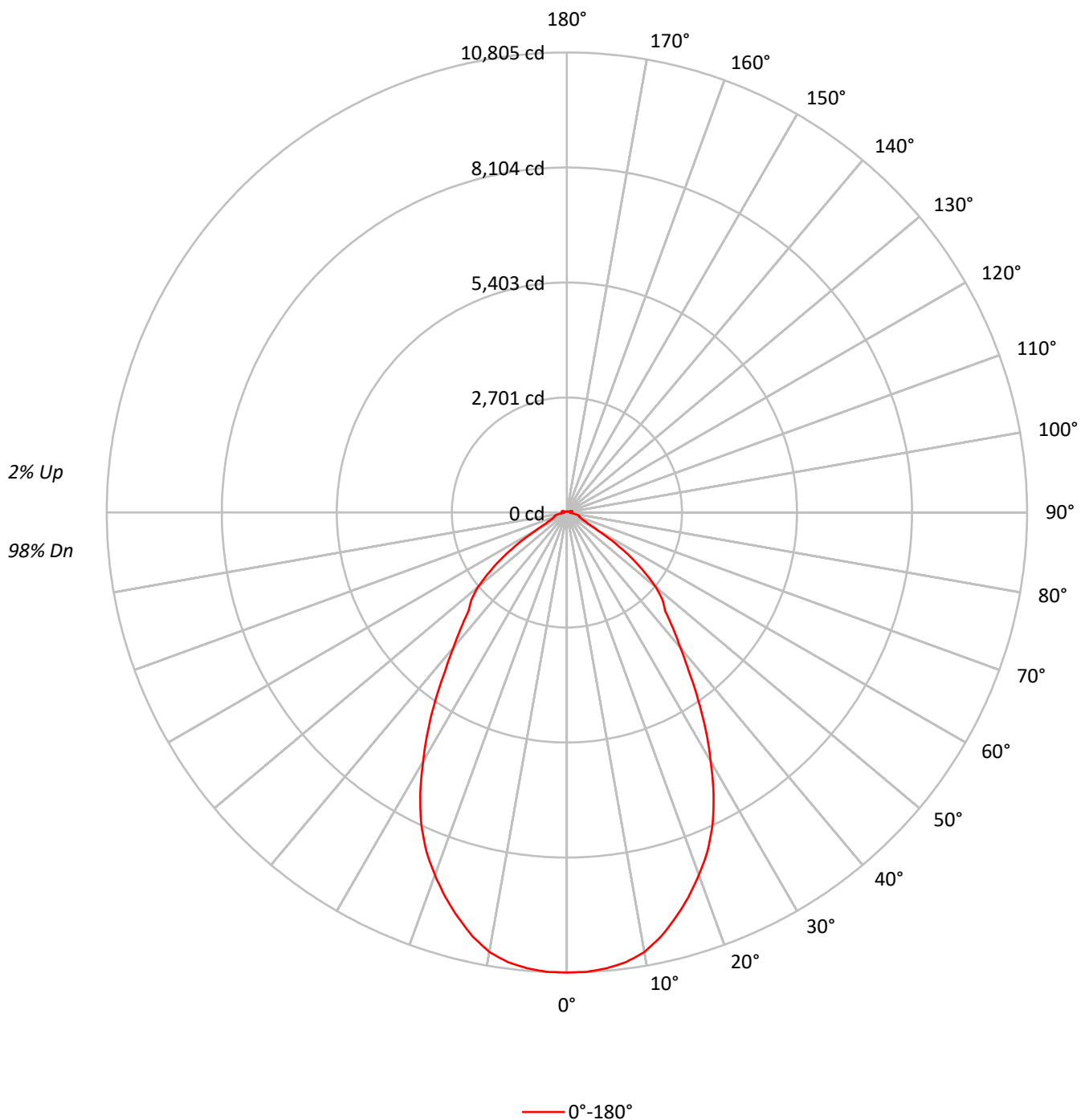
Lumens per Lamp: N/A
Luminaire Lumens: 16256.0 lumens
Efficiency: N/A
Efficacy: 133.2 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.03
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 0.25')
CIE Type: Direct

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: P980585

CATALOG NUMBER: UHBS2-1218-N-L83065-HIGH-3000K-CLR3

Luminous Intensity Polar Plot



TEST NUMBER: P980585

CATALOG NUMBER: UHBS2-1218-N-L83065-HIGH-3000K-CLR3

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	115	115	115	115	110	110	110		105	105	105		100	100	100	98
1	111	107	104	101	108	105	102	100	101	98	96		96	94	93		93	91	90	88
2	104	97	92	88	101	95	91	87	92	88	84		88	85	82		85	82	80	78
3	97	88	82	77	94	87	81	76	84	79	74		81	76	73		78	75	72	70
4	90	80	73	68	88	79	73	67	76	71	66		74	69	65		72	68	64	62
5	84	74	66	61	82	72	66	60	70	64	60		68	63	59		66	62	58	56
6	79	68	60	55	77	67	60	55	65	59	54		63	58	53		61	57	53	51
7	74	62	55	50	72	61	54	50	60	54	49		58	53	49		57	52	48	46
8	69	58	50	45	68	57	50	45	56	49	45		54	49	45		53	48	44	43
9	65	54	47	42	64	53	46	42	52	46	41		51	45	41		50	44	41	39
10	62	50	43	39	60	49	43	38	48	42	38		47	42	38		46	41	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	108922
5°	106196
10°	102351
15°	95824
20°	88437
25°	79823
30°	67940
35°	55533
40°	44343
45°	36500
50°	32299
55°	23341
60°	11349
65°	6587
70°	5379
75°	5520
80°	3941
85°	2316

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 36500 cd/sqm

TEST NUMBER: P980585

CATALOG NUMBER: UHBS2-1218-N-L83065-HIGH-3000K-CLR3

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1017.6	6.3
10°-20°	2765.0	17.0
20°-30°	3681.1	22.6
30°-40°	3359.9	20.7
40°-50°	2585.6	15.9
50°-60°	1611.5	9.9
60°-70°	475.8	2.9
70°-80°	285.3	1.8
80°-90°	104.0	0.6
90°-100°	92.1	0.6
100°-110°	120.2	0.7
110°-120°	59.4	0.4
120°-130°	31.4	0.2
130°-140°	23.8	0.1
140°-150°	19.2	0.1
150°-160°	14.0	0.1
160°-170°	7.7	0.0
170°-180°	2.3	0.0
0°-30°	7463.6	45.9
0°-40°	10823.6	66.6
0°-60°	15020.7	92.4
0°-90°	15885.8	97.7
90°-120°	271.7	1.7
90°-150°	346.1	2.1
90°-180°	370.0	2.3
0°-180°	16256.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10805	
5°	10745	###
15°	9854	2765
25°	8090	3681
35°	5375	3360
45°	3259	2586
55°	1846	1612
65°	438	476
75°	286	285
85°	82	87
90°	61	35
95°	81	74
105°	120	120
115°	57	59
125°	35	31
135°	31	24
145°	31	19
155°	31	14
165°	27	8
175°	24	2
180°	25	

TEST NUMBER: P980585

CATALOG NUMBER: UHBS2-1218-N-L83065-HIGH-3000K-CLR3

CANDELA DISTRIBUTION (FULL):

0°	
0°	10805.2
2.5°	10797.2
5°	10745.3
7.5°	10650.8
10°	10480.4
12.5°	10206.3
15°	9853.6
17.5°	9477.0
20°	9063.1
22.5°	8623.9
25°	8090.2
27.5°	7458.1
30°	6756.7
32.5°	6072.7
35°	5375.3
37.5°	4704.6
40°	4141.6
42.5°	3685.1
45°	3259.3
47.5°	3049.0
50°	2729.6
52.5°	2285.1
55°	1845.9
57.5°	1346.8
60°	829.1
62.5°	556.3
65°	437.8
67.5°	360.7
70°	319.4
72.5°	306.1
75°	286.1
77.5°	242.2
80°	173.0
82.5°	115.8
85°	82.5
87.5°	66.5
90°	61.2
92.5°	67.9
95°	81.2
97.5°	99.8
100°	117.1
102.5°	125.1
105°	119.8
107.5°	106.5
110°	87.8



TEST NUMBER: P980585

CATALOG NUMBER: UHBS2-1218-N-L83065-HIGH-3000K-CLR3

CANDELA DISTRIBUTION (continued):

	0°
112.5°	70.5
115°	57.2
117.5°	46.6
120°	39.9
122.5°	35.9
125°	34.6
127.5°	33.3
130°	31.9
132.5°	30.6
135°	30.6
137.5°	30.6
140°	30.6
142.5°	30.6
145°	30.6
147.5°	30.6
150°	30.6
152.5°	30.6
155°	30.6
157.5°	29.3
160°	29.3
162.5°	27.9
165°	26.6
167.5°	26.6
170°	25.3
172.5°	24.0
175°	24.0
177.5°	25.3
180°	25.3

(END OF REPORT)