

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: P1175783

Luminaire Tested: UHBS2-1218-N-L83065-HIGH-3500K-CLR6

Issue Date: 8/26/2025

Test Information

Test Method: LM-79-2019
Report Number: P1175783
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2505-439-3)
Test Lab: INNOVATION CENTER
Issue Date: 8/26/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: UHBS2-1218-N-L83065-HIGH-3500K-CLR6
Description: UHBS2 LED High Bay at 3500K and HIGH lumen setting 6in Deep Clear Refractor
Light Source: -
Ballast/Driver: -

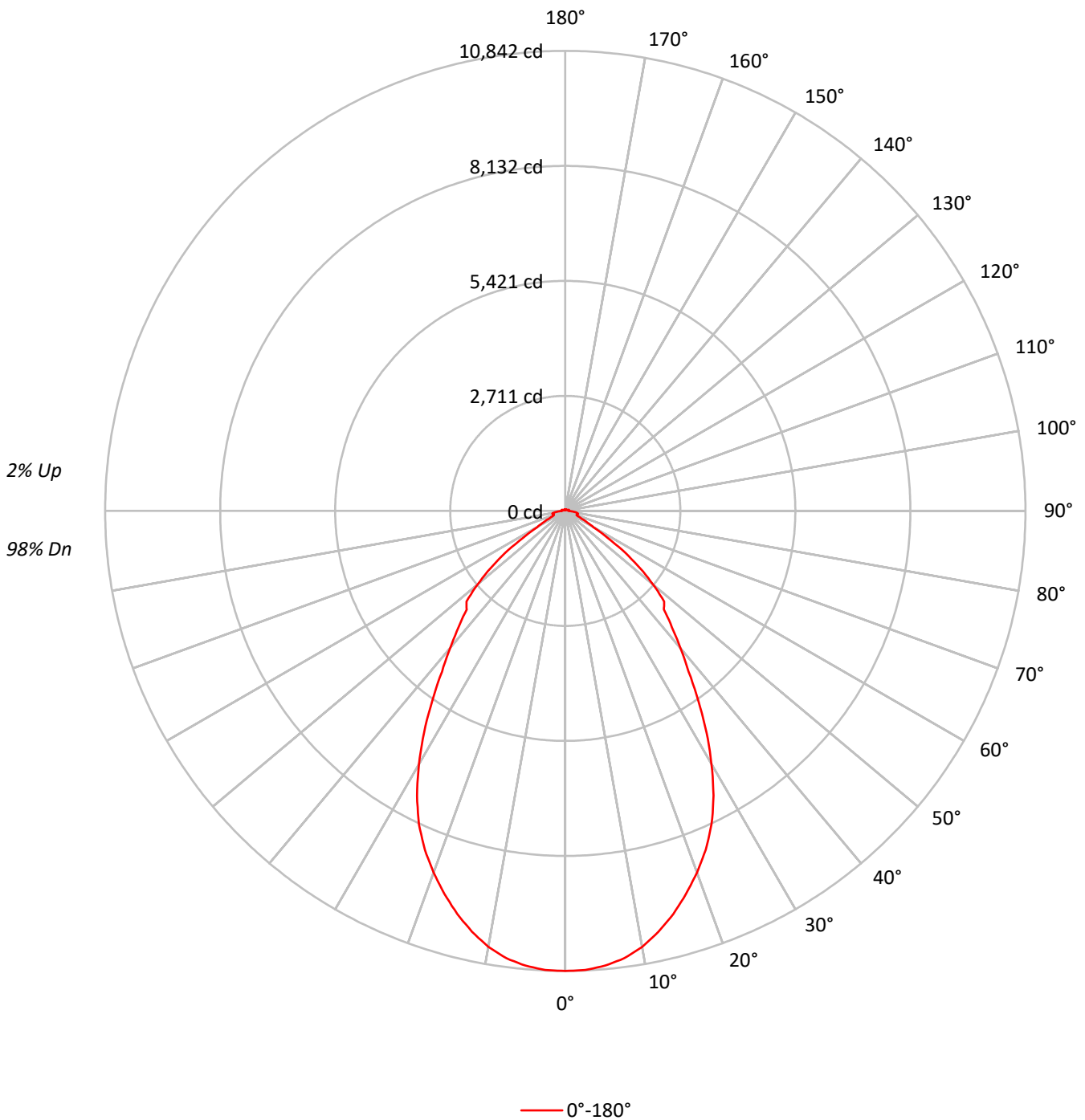
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16353.0 lumens
Efficiency: N/A
Efficacy: 135.7 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.02 / 1.03
Luminous Opening: Vertical Cylinder (Dia: 1.3' x H: 0.5')
CIE Type: Direct

Input Watts (W): 120.5
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

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98				98
1	111	107	104	101	108	105	102	99	100	98	96	96	94	92	92	91	89	87				87
2	103	97	92	87	101	95	90	86	91	87	84	88	85	82	85	82	80	78				78
3	96	88	82	77	94	86	81	76	83	78	74	81	76	73	78	74	71	69				69
4	90	80	73	68	88	79	72	67	76	71	66	74	69	65	72	68	64	62				62
5	84	73	66	61	82	72	65	60	70	64	60	68	63	59	66	62	58	56				56
6	79	67	60	55	77	67	60	54	65	58	54	63	57	53	61	56	53	51				51
7	74	62	55	50	72	61	54	49	60	54	49	58	53	49	57	52	48	46				46
8	69	58	50	45	68	57	50	45	56	49	45	54	49	45	53	48	44	42				42
9	65	54	46	42	64	53	46	42	52	46	41	51	45	41	50	44	41	39				39
10	62	50	43	38	60	49	43	38	48	42	38	47	42	38	46	41	38	36				36

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	87791
5°	83866
10°	78956
15°	72879
20°	66328
25°	59311
30°	50244
35°	40230
40°	31577
45°	25270
50°	21472
55°	14409
60°	6720
65°	3840
70°	2858
75°	3346
80°	3598
85°	2497

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 25270 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1016.8	6.2
10°-20°	2758.5	16.9
20°-30°	3713.1	22.7
30°-40°	3419.0	20.9
40°-50°	2622.6	16.0
50°-60°	1526.9	9.3
60°-70°	446.6	2.7
70°-80°	314.1	1.9
80°-90°	196.6	1.2
90°-100°	82.8	0.5
100°-110°	92.4	0.6
110°-120°	62.4	0.4
120°-130°	35.5	0.2
130°-140°	23.0	0.1
140°-150°	19.6	0.1
150°-160°	14.4	0.1
160°-170°	6.9	0.0
170°-180°	1.8	0.0
0°-30°	7488.4	45.8
0°-40°	10907.4	66.7
0°-60°	15056.9	92.1
0°-90°	16014.3	97.9
90°-120°	237.6	1.5
90°-150°	315.7	1.9
90°-180°	339.0	2.1
0°-180°	16353.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10842	
5°	10760	###
15°	9834	2758
25°	8154	3713
35°	5464	3419
45°	3287	2623
55°	1734	1527
65°	411	447
75°	302	314
85°	177	170
90°	78	47
95°	71	62
105°	91	92
115°	62	62
125°	38	35
135°	29	23
145°	32	20
155°	32	14
165°	23	7
175°	18	2
180°	16	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	10842.4
2.5°	10827.3
5°	10760.0
7.5°	10635.0
10°	10431.6
12.5°	10155.4
15°	9833.9
17.5°	9464.3
20°	9068.6
22.5°	8642.6
25°	8153.5
27.5°	7565.4
30°	6892.1
32.5°	6192.7
35°	5464.5
37.5°	4773.4
40°	4214.1
42.5°	3719.5
45°	3286.7
47.5°	3157.5
50°	2698.6
52.5°	2227.3
55°	1734.0
57.5°	1189.9
60°	766.7
62.5°	562.0
65°	410.8
67.5°	314.7
70°	283.0
72.5°	287.2
75°	302.3
77.5°	310.5
80°	291.3
82.5°	241.8
85°	177.2
87.5°	118.2
90°	78.3
92.5°	70.1
95°	71.4
97.5°	79.7
100°	86.6
102.5°	90.7
105°	90.7
107.5°	85.2
110°	78.3



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	70.1
115°	61.8
117.5°	55.0
120°	49.5
122.5°	44.0
125°	38.5
127.5°	34.4
130°	31.6
132.5°	30.2
135°	28.9
137.5°	28.9
140°	30.2
142.5°	30.2
145°	31.6
147.5°	31.6
150°	33.0
152.5°	33.0
155°	31.6
157.5°	28.9
160°	27.5
162.5°	26.1
165°	23.4
167.5°	22.0
170°	20.6
172.5°	19.2
175°	17.9
177.5°	16.5
180°	16.5

(END OF REPORT)