

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: P1175798

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

Issue Date: 8/26/2025

Test Information

Test Method: LM-79-2019
Report Number: P1175798
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2505-439-5)
Test Lab: INNOVATION CENTER
Issue Date: 8/26/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: UHBS2-1218-W-L83065-HIGH-3500K-CLR6
Description: UHBS2 LED High Bay at 3500K and HIGH lumen setting 6in Deep Clear Refractor
Light Source: -
Ballast/Driver: -

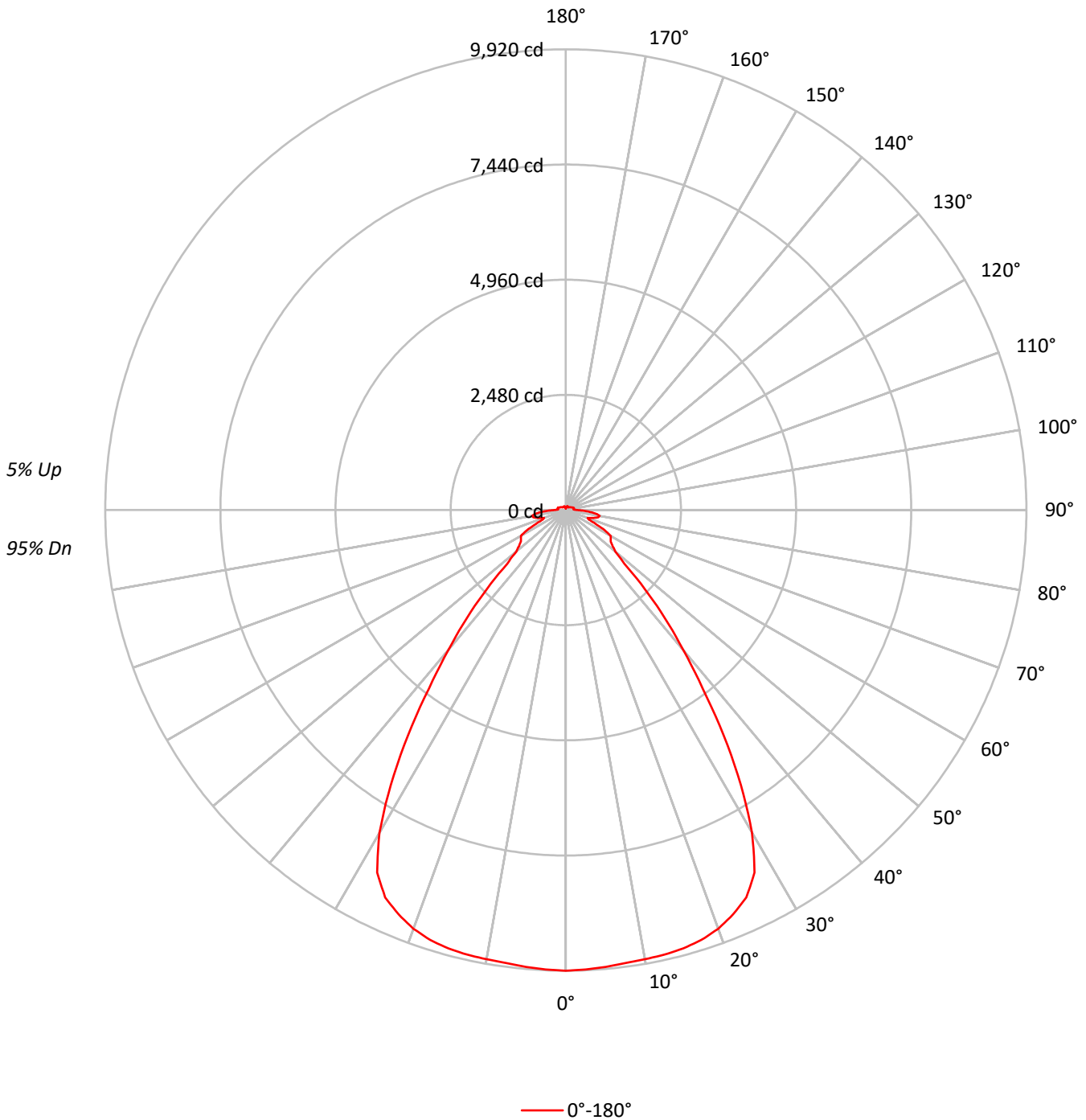
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17315.1 lumens
Efficiency: N/A
Efficacy: 143.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.08
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	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	98	98	98	95
1	109	105	101	98	106	102	99	96	97	95	92	93	90	88	88	87	85	88	87	85	83
2	101	94	89	84	99	92	87	83	88	84	80	84	81	78	81	78	75	81	78	75	73
3	94	86	79	73	92	84	78	73	80	75	71	77	73	69	74	70	67	74	70	67	65
4	88	78	71	65	86	77	70	64	74	68	63	71	66	62	68	64	61	68	64	61	59
5	82	72	64	58	80	70	63	58	68	62	57	65	60	56	63	59	55	63	59	55	53
6	77	66	58	53	75	65	58	52	63	56	52	61	55	51	59	54	50	59	54	50	48
7	72	61	53	48	71	60	53	48	58	52	47	56	51	47	55	50	46	55	50	46	44
8	68	56	49	44	66	56	49	44	54	48	43	52	47	43	51	46	42	51	46	42	41
9	64	52	45	40	63	52	45	40	50	44	40	49	43	39	48	43	39	48	43	39	37
10	61	49	42	37	59	48	42	37	47	41	37	46	40	37	45	40	36	45	40	36	35

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	80327
5°	76969
10°	74326
15°	72439
20°	70175
25°	66938
30°	58491
35°	43621
40°	29471
45°	18454
50°	11081
55°	9807
60°	9773
65°	6597
70°	5050
75°	7152
80°	9118
85°	7806

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18454 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	940.7	5.4
10°-20°	2760.5	15.9
20°-30°	4173.4	24.1
30°-40°	3680.2	21.3
40°-50°	1892.8	10.9
50°-60°	1085.8	6.3
60°-70°	739.8	4.3
70°-80°	674.1	3.9
80°-90°	575.6	3.3
90°-100°	197.4	1.1
100°-110°	182.9	1.1
110°-120°	136.6	0.8
120°-130°	95.1	0.5
130°-140°	65.0	0.4
140°-150°	51.1	0.3
150°-160°	39.5	0.2
160°-170°	20.0	0.1
170°-180°	4.6	0.0
0°-30°	7874.6	45.5
0°-40°	11554.7	66.7
0°-60°	14533.3	83.9
0°-90°	16522.8	95.4
90°-120°	516.9	3.0
90°-150°	728.2	4.2
90°-180°	792.0	4.6
0°-180°	17315.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9920	
5°	9875	941
15°	9774	2760
25°	9202	4173
35°	5925	3680
45°	2400	1893
55°	1180	1086
65°	706	740
75°	646	674
85°	554	489
90°	245	145
95°	164	139
105°	177	183
115°	136	137
125°	106	95
135°	82	65
145°	81	51
155°	86	40
165°	69	20
175°	44	5
180°	37	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	9920.5
2.5°	9904.9
5°	9875.1
7.5°	9838.3
10°	9819.9
12.5°	9807.1
15°	9774.5
17.5°	9707.9
20°	9594.6
22.5°	9421.7
25°	9202.1
27.5°	8801.2
30°	8023.4
32.5°	7020.3
35°	5925.1
37.5°	4837.0
40°	3933.0
42.5°	3151.0
45°	2400.1
47.5°	1708.7
50°	1392.7
52.5°	1269.5
55°	1180.2
57.5°	1147.6
60°	1115.0
62.5°	952.1
65°	705.6
67.5°	534.1
70°	500.1
72.5°	558.2
75°	646.1
77.5°	721.2
80°	738.2
82.5°	680.1
85°	554.0
87.5°	386.8
90°	245.1
92.5°	182.8
95°	164.3
97.5°	167.2
100°	172.9
102.5°	178.5
105°	177.1
107.5°	170.0
110°	158.7



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	147.3
115°	136.0
117.5°	127.5
120°	119.0
122.5°	113.3
125°	106.3
127.5°	97.8
130°	92.1
132.5°	86.4
135°	82.2
137.5°	80.8
140°	79.3
142.5°	80.8
145°	80.8
147.5°	82.2
150°	85.0
152.5°	86.4
155°	86.4
157.5°	85.0
160°	82.2
162.5°	76.5
165°	69.4
167.5°	62.3
170°	55.3
172.5°	49.6
175°	43.9
177.5°	39.7
180°	36.8

(END OF REPORT)