

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: P1175801

Luminaire Tested: UHBS2-1218-W-L83065-HIGH-6500K-CLR6

Issue Date: 8/26/2025

Test Information

Test Method: LM-79-2019
Report Number: P1175801
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-6500K-CLR6
Description: UHBS2 LED High Bay at 6500K and HIGH lumen setting 6in Deep Clear Refractor
Light Source: -
Ballast/Driver: -

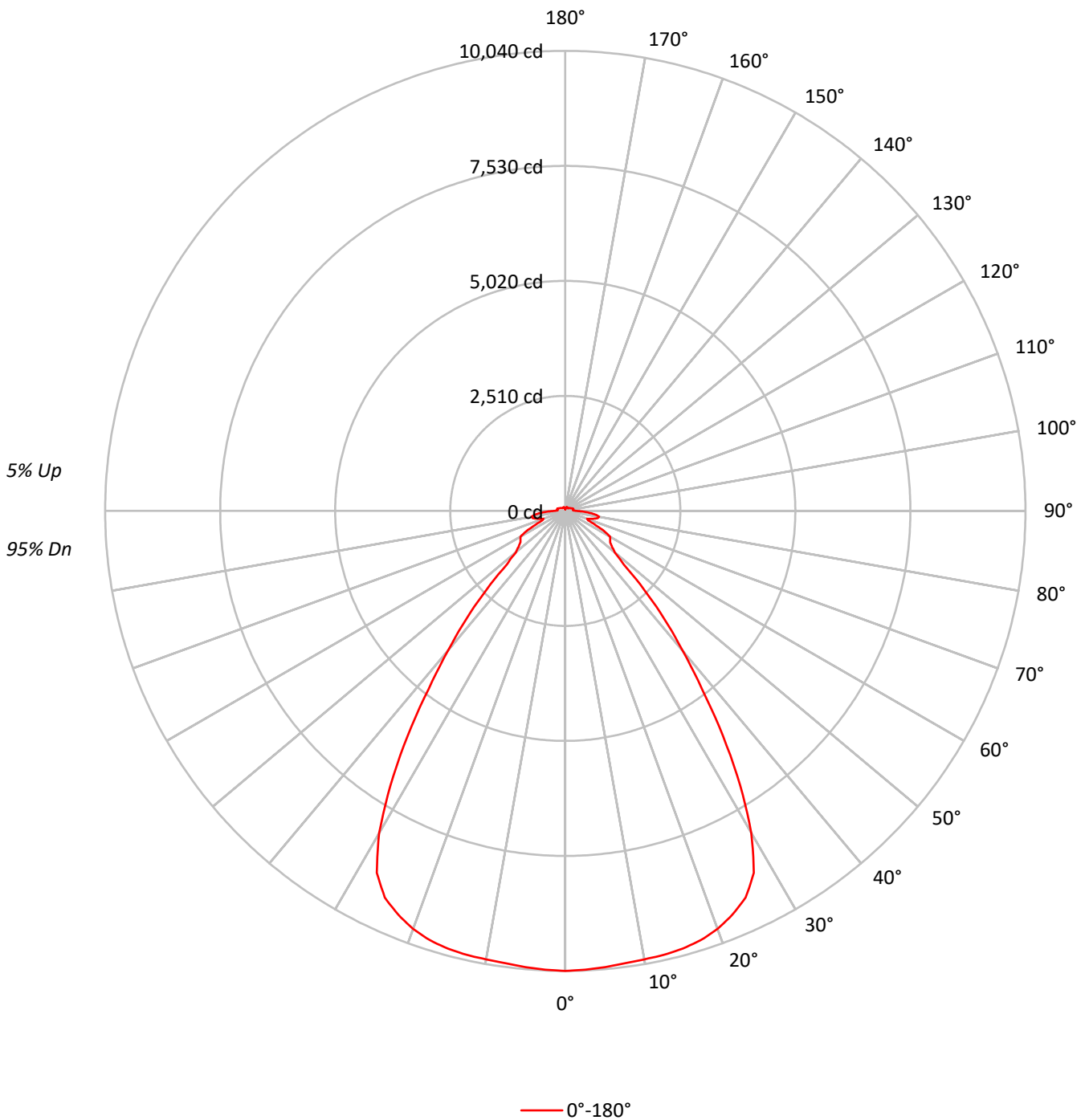
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17524.1 lumens
Efficiency: N/A
Efficacy: 143.5 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): 122.1
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°	81296
5°	77898
10°	75223
15°	73313
20°	71022
25°	67747
30°	59197
35°	44148
40°	29827
45°	18676
50°	11215
55°	9925
60°	9891
65°	6676
70°	5112
75°	7238
80°	9228
85°	7901

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18676 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	952.0	5.4
10°-20°	2793.8	15.9
20°-30°	4223.8	24.1
30°-40°	3724.6	21.3
40°-50°	1915.6	10.9
50°-60°	1098.9	6.3
60°-70°	748.8	4.3
70°-80°	682.2	3.9
80°-90°	582.5	3.3
90°-100°	199.7	1.1
100°-110°	185.1	1.1
110°-120°	138.3	0.8
120°-130°	96.2	0.5
130°-140°	65.8	0.4
140°-150°	51.7	0.3
150°-160°	40.0	0.2
160°-170°	20.3	0.1
170°-180°	4.6	0.0
0°-30°	7969.6	45.5
0°-40°	11694.2	66.7
0°-60°	14708.7	83.9
0°-90°	16722.2	95.4
90°-120°	523.2	3.0
90°-150°	736.9	4.2
90°-180°	802.0	4.6
0°-180°	17524.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10040	
5°	9994	952
15°	9892	2794
25°	9313	4224
35°	5997	3725
45°	2429	1916
55°	1194	1099
65°	714	749
75°	654	682
85°	561	495
90°	248	147
95°	166	140
105°	179	185
115°	138	138
125°	108	96
135°	83	66
145°	82	52
155°	88	40
165°	70	20
175°	44	5
180°	37	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	10040.2
2.5°	10024.4
5°	9994.3
7.5°	9957.0
10°	9938.4
12.5°	9925.5
15°	9892.5
17.5°	9825.1
20°	9710.4
22.5°	9535.5
25°	9313.2
27.5°	8907.4
30°	8120.2
32.5°	7105.0
35°	5996.6
37.5°	4895.4
40°	3980.5
42.5°	3189.0
45°	2429.0
47.5°	1729.3
50°	1409.5
52.5°	1284.8
55°	1194.4
57.5°	1161.5
60°	1128.5
62.5°	963.6
65°	714.1
67.5°	540.6
70°	506.2
72.5°	565.0
75°	653.9
77.5°	729.9
80°	747.1
82.5°	688.3
85°	560.7
87.5°	391.5
90°	248.1
92.5°	185.0
95°	166.3
97.5°	169.2
100°	174.9
102.5°	180.7
105°	179.2
107.5°	172.1
110°	160.6



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	149.1
115°	137.7
117.5°	129.1
120°	120.4
122.5°	114.7
125°	107.5
127.5°	98.9
130°	93.2
132.5°	87.5
135°	83.2
137.5°	81.7
140°	80.3
142.5°	81.7
145°	81.7
147.5°	83.2
150°	86.0
152.5°	87.5
155°	87.5
157.5°	86.0
160°	83.2
162.5°	77.4
165°	70.3
167.5°	63.1
170°	55.9
172.5°	50.2
175°	44.5
177.5°	40.1
180°	37.3

(END OF REPORT)