

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: P1175784

Luminaire Tested: UHBS2-1218-N-L83065-HIGH-4000K-CLR6

Issue Date: 8/26/2025

Test Information

Test Method: LM-79-2019
Report Number: P1175784
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-4000K-CLR6
Description: UHBS2 LED High Bay at 4000K and HIGH lumen setting 6in Deep Clear Refractor
Light Source: -
Ballast/Driver: -

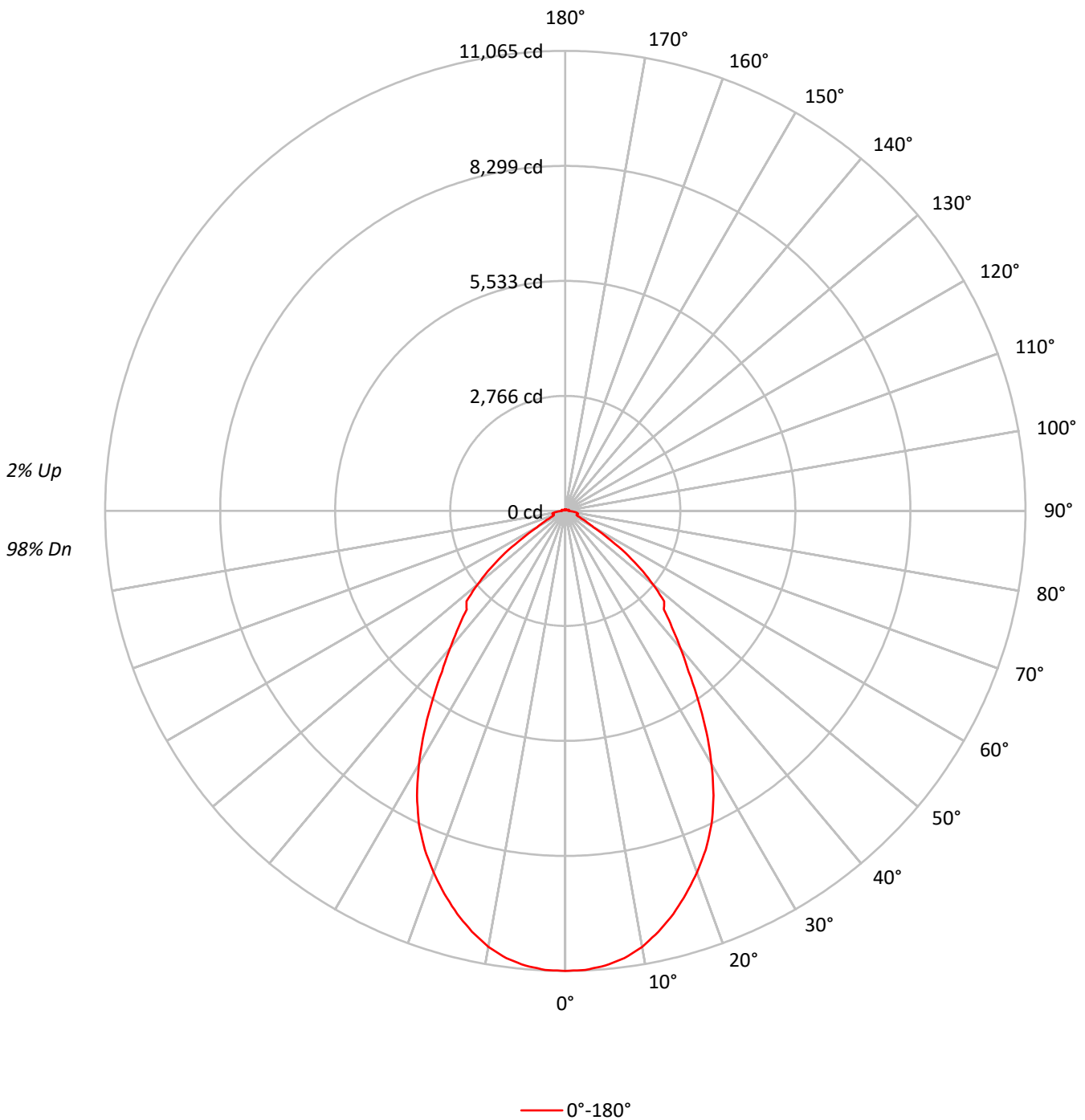
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16688.9 lumens
Efficiency: N/A
Efficacy: 140.1 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): 119.1
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				
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	43			43
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°	89595
5°	85590
10°	80578
15°	74376
20°	67691
25°	60529
30°	51276
35°	41057
40°	32226
45°	25789
50°	21913
55°	14705
60°	6859
65°	3920
70°	2917
75°	3415
80°	3672
85°	2549

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 25789 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1037.7	6.2
10°-20°	2815.1	16.9
20°-30°	3789.4	22.7
30°-40°	3489.2	20.9
40°-50°	2676.5	16.0
50°-60°	1558.3	9.3
60°-70°	455.8	2.7
70°-80°	320.5	1.9
80°-90°	200.7	1.2
90°-100°	84.5	0.5
100°-110°	94.2	0.6
110°-120°	63.7	0.4
120°-130°	36.2	0.2
130°-140°	23.5	0.1
140°-150°	20.0	0.1
150°-160°	14.7	0.1
160°-170°	7.0	0.0
170°-180°	1.8	0.0
0°-30°	7642.3	45.8
0°-40°	11131.5	66.7
0°-60°	15366.3	92.1
0°-90°	16343.4	97.9
90°-120°	242.4	1.5
90°-150°	322.1	1.9
90°-180°	346.0	2.1
0°-180°	16688.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11065	
5°	10981	###
15°	10036	2815
25°	8321	3789
35°	5577	3489
45°	3354	2676
55°	1770	1558
65°	419	456
75°	308	321
85°	181	173
90°	80	48
95°	73	64
105°	92	94
115°	63	64
125°	39	36
135°	29	23
145°	32	20
155°	32	15
165°	24	7
175°	18	2
180°	17	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	11065.2
2.5°	11049.8
5°	10981.1
7.5°	10853.5
10°	10645.9
12.5°	10364.1
15°	10036.0
17.5°	9658.8
20°	9254.9
22.5°	8820.2
25°	8321.0
27.5°	7720.8
30°	7033.7
32.5°	6320.0
35°	5576.8
37.5°	4871.4
40°	4300.7
42.5°	3795.9
45°	3354.2
47.5°	3222.4
50°	2754.0
52.5°	2273.1
55°	1769.6
57.5°	1214.4
60°	782.5
62.5°	573.5
65°	419.3
67.5°	321.1
70°	288.9
72.5°	293.1
75°	308.5
77.5°	316.9
80°	297.3
82.5°	246.8
85°	180.9
87.5°	120.6
90°	79.9
92.5°	71.5
95°	72.9
97.5°	81.3
100°	88.3
102.5°	92.5
105°	92.5
107.5°	86.9
110°	79.9



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	71.5
115°	63.1
117.5°	56.1
120°	50.5
122.5°	44.9
125°	39.3
127.5°	35.1
130°	32.3
132.5°	30.8
135°	29.4
137.5°	29.4
140°	30.8
142.5°	30.8
145°	32.3
147.5°	32.3
150°	33.7
152.5°	33.7
155°	32.3
157.5°	29.4
160°	28.0
162.5°	26.6
165°	23.8
167.5°	22.4
170°	21.0
172.5°	19.6
175°	18.2
177.5°	16.8
180°	16.8

(END OF REPORT)