Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P980613

Luminaire Tested: UHBS2-1218-N-L83065-MID-6500K-CLR3

Issue Date: 4/4/2025

Test Information

Test Method:	LM-79-2019
Report Number:	P980613
	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-MID-6500K-CLR3
Description:	UHBS2 LED High Bay at 6500K and MID lumen setting 3in Deep Clear Refractor
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	14091.9 lumens
Efficiency:	N/A
Efficacy:	142.8 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):	98.7
Input Voltage (V):	
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.997
Total Harmonic Distortion (THDi):	7.15
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

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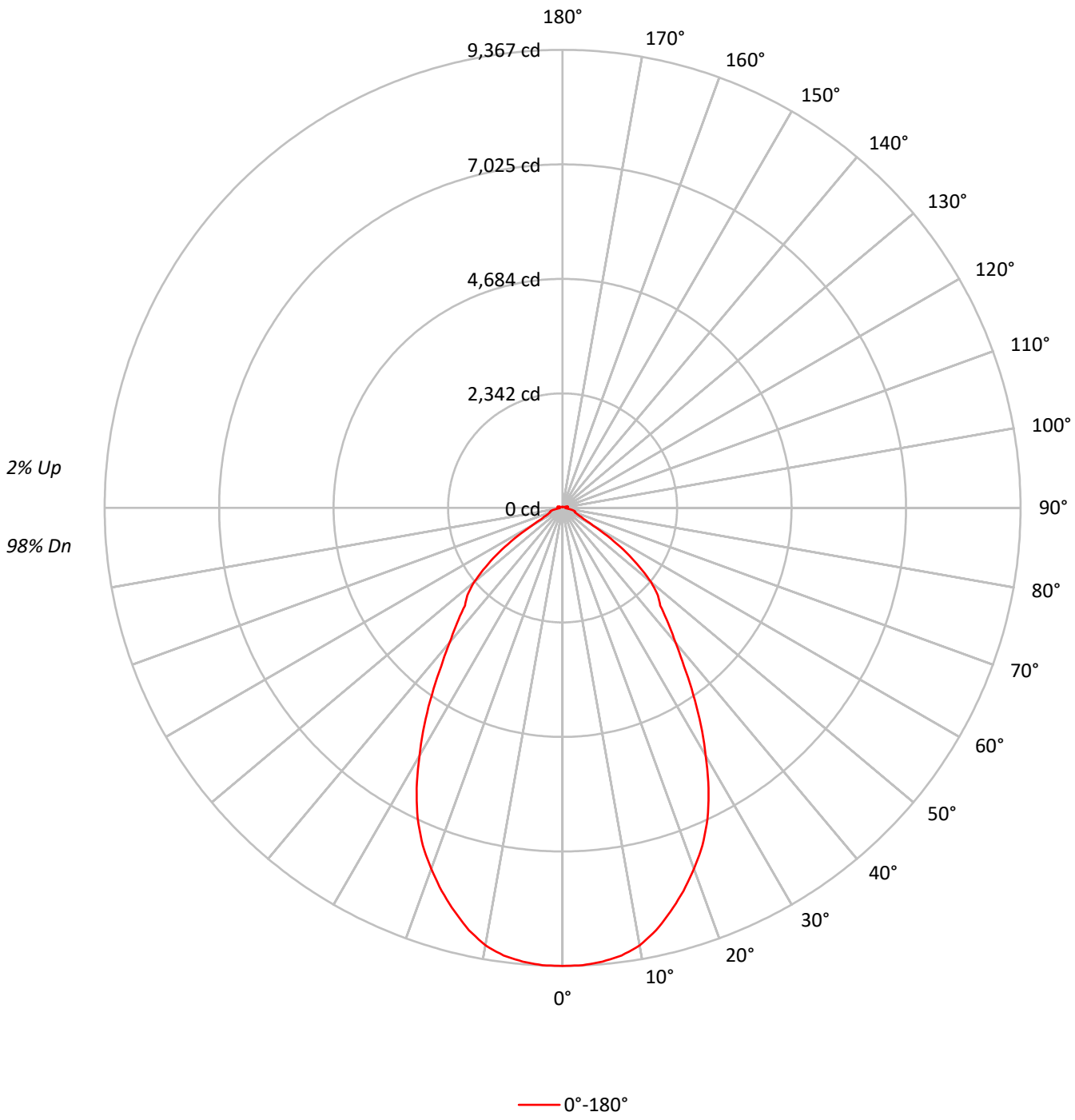
Luminous Intensity Polar Plot



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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	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°	94422
5°	92059
10°	88727
15°	83068
20°	76664
25°	69198
30°	58896
35°	48140
40°	38440
45°	31641
50°	27999
55°	20234
60°	9838
65°	5711
70°	4663
75°	4785
80°	3417
85°	2007

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 31641 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	882.1	6.3
10°-20°	2396.9	17.0
20°-30°	3191.1	22.6
30°-40°	2912.7	20.7
40°-50°	2241.4	15.9
50°-60°	1397.0	9.9
60°-70°	412.4	2.9
70°-80°	247.3	1.8
80°-90°	90.2	0.6
90°-100°	79.9	0.6
100°-110°	104.1	0.7
110°-120°	51.5	0.4
120°-130°	27.2	0.2
130°-140°	20.6	0.1
140°-150°	16.6	0.1
150°-160°	12.1	0.1
160°-170°	6.7	0.0
170°-180°	2.0	0.0
0°-30°	6470.1	45.9
0°-40°	9382.8	66.6
0°-60°	13021.2	92.4
0°-90°	13771.1	97.7
90°-120°	235.5	1.7
90°-150°	300.0	2.1
90°-180°	321.0	2.3
0°-180°	14091.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9367	
5°	9315	882
15°	8542	2397
25°	7013	3191
35°	4660	2913
45°	2825	2241
55°	1600	1397
65°	380	412
75°	248	247
85°	72	75
90°	53	31
95°	70	65
105°	104	104
115°	50	51
125°	30	27
135°	26	21
145°	26	17
155°	26	12
165°	23	7
175°	21	2
180°	22	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	*9366.8*
2.5°	*9359.9*
5°	*9314.9*
7.5°	*9233.0*
10°	*9085.3*
12.5°	*8847.6*
15°	*8541.9*
17.5°	*8215.4*
20°	*7856.6*
22.5°	*7475.9*
25°	*7013.3*
27.5°	*6465.3*
30°	*5857.3*
32.5°	*5264.3*
35°	*4659.7*
37.5°	*4078.3*
40°	*3590.3*
42.5°	*3194.6*
45°	*2825.4*
47.5°	*2643.1*
50°	*2366.2*
52.5°	*1980.9*
55°	*1600.2*
57.5°	*1167.5*
60°	*718.7*
62.5°	*482.2*
65°	*379.6*
67.5°	*312.6*
70°	*276.9*
72.5°	*265.3*
75°	*248.0*
77.5°	*210.0*
80°	*150.0*
82.5°	*100.4*
85°	*71.5*
87.5°	*57.7*
90°	*53.1*
92.5°	*58.8*
95°	*70.4*
97.5°	*86.5*
100°	*101.5*
102.5°	*108.4*
105°	*103.8*
107.5°	*92.3*
110°	*76.1*

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	*61.1*
115°	*49.6*
117.5°	*40.4*
120°	*34.6*
122.5°	*31.1*
125°	*30.0*
127.5°	*28.8*
130°	*27.7*
132.5°	*26.5*
135°	*26.5*
137.5°	*26.5*
140°	*26.5*
142.5°	*26.5*
145°	*26.5*
147.5°	*26.5*
150°	*26.5*
152.5°	*26.5*
155°	*26.5*
157.5°	*25.4*
160°	*25.4*
162.5°	*24.2*
165°	*23.1*
167.5°	*23.1*
170°	*21.9*
172.5°	*20.8*
175°	*20.8*
177.5°	*21.9*
180°	*21.9*

(END OF REPORT)