

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: P980589

Luminaire Tested: UHBS2-1218-N-L83065-HIGH-4000K-CLR3

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980589
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-HIGH-4000K-CLR3
Description: UHBS2 LED High Bay at 4000K and HIGH lumen setting 3in Deep Clear Refractor
Light Source: -
Ballast/Driver: -

Summary

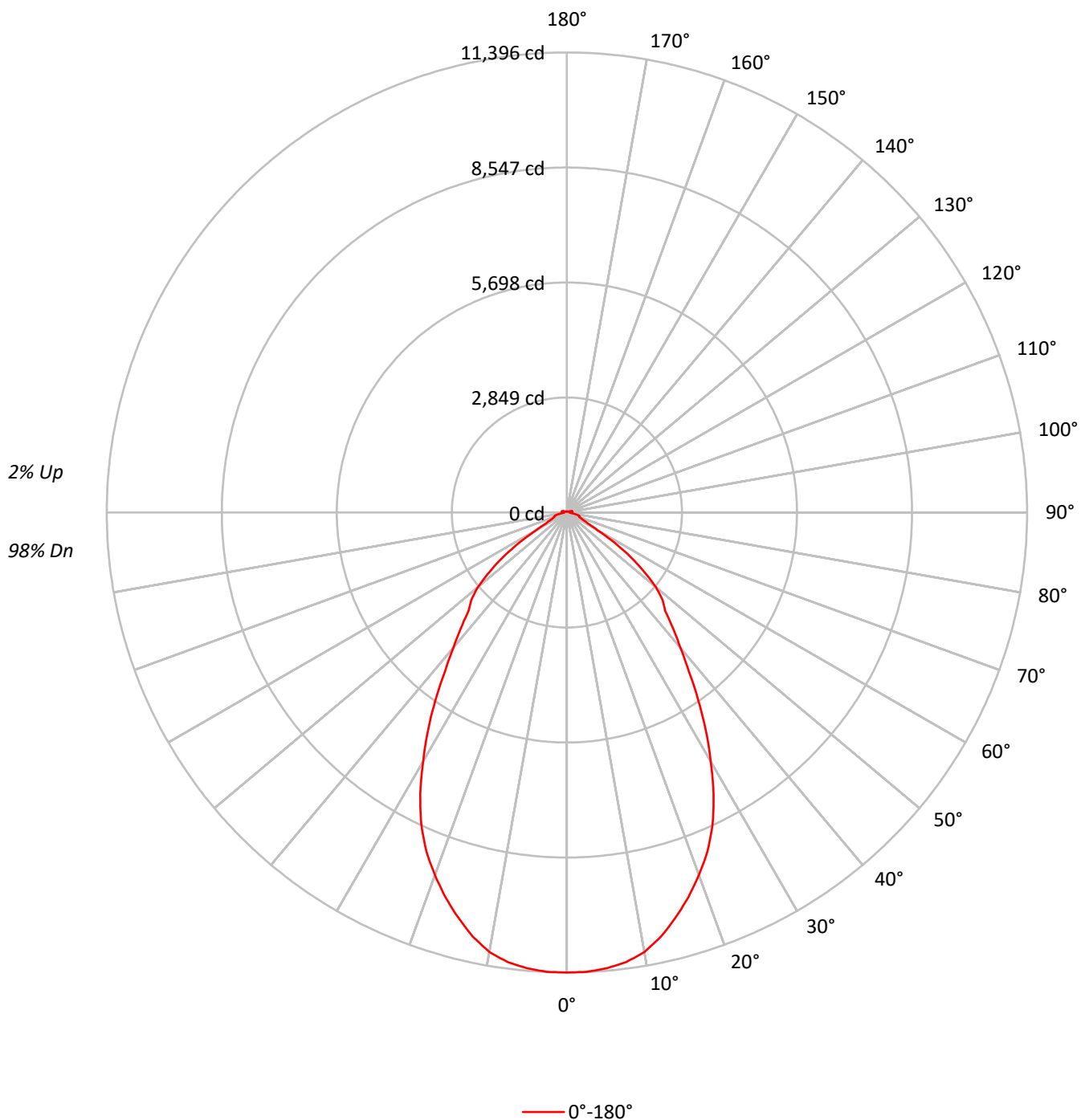
Lumens per Lamp: N/A
Luminaire Lumens: 17145.0 lumens
Efficiency: N/A
Efficacy: 144.0 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.03
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 0.25')
CIE Type: Direct

Input Watts (W): 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	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°	114879
5°	112003
10°	107949
15°	101065
20°	93273
25°	84189
30°	71655
35°	58571
40°	46768
45°	38496
50°	34064
55°	24617
60°	11971
65°	6948
70°	5674
75°	5822
80°	4158
85°	2442

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 38496 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1073.2	6.3
10°-20°	2916.2	17.0
20°-30°	3882.4	22.6
30°-40°	3543.7	20.7
40°-50°	2727.0	15.9
50°-60°	1699.6	9.9
60°-70°	501.8	2.9
70°-80°	300.9	1.8
80°-90°	109.7	0.6
90°-100°	97.2	0.6
100°-110°	126.7	0.7
110°-120°	62.7	0.4
120°-130°	33.1	0.2
130°-140°	25.2	0.1
140°-150°	20.3	0.1
150°-160°	14.7	0.1
160°-170°	8.2	0.0
170°-180°	2.5	0.0
0°-30°	7871.8	45.9
0°-40°	11415.5	66.6
0°-60°	15842.2	92.4
0°-90°	16754.6	97.7
90°-120°	286.5	1.7
90°-150°	365.1	2.1
90°-180°	390.0	2.3
0°-180°	17145.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11396	
5°	11333	###
15°	10392	2916
25°	8533	3882
35°	5669	3544
45°	3438	2727
55°	1947	1700
65°	462	502
75°	302	301
85°	87	91
90°	65	37
95°	86	79
105°	126	127
115°	60	63
125°	36	33
135°	32	25
145°	32	20
155°	32	15
165°	28	8
175°	25	2
180°	27	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	11396.1
2.5°	11387.7
5°	11332.9
7.5°	11233.3
10°	11053.6
12.5°	10764.4
15°	10392.5
17.5°	9995.3
20°	9558.7
22.5°	9095.5
25°	8532.7
27.5°	7865.9
30°	7126.2
32.5°	6404.8
35°	5669.3
37.5°	4961.8
40°	4368.1
42.5°	3886.7
45°	3437.5
47.5°	3215.7
50°	2878.8
52.5°	2410.0
55°	1946.8
57.5°	1420.5
60°	874.5
62.5°	586.7
65°	461.8
67.5°	380.4
70°	336.9
72.5°	322.8
75°	301.8
77.5°	255.5
80°	182.5
82.5°	122.1
85°	87.0
87.5°	70.2
90°	64.6
92.5°	71.6
95°	85.6
97.5°	105.3
100°	123.5
102.5°	131.9
105°	126.3
107.5°	112.3
110°	92.6



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	74.4
115°	60.4
117.5°	49.1
120°	42.1
122.5°	37.9
125°	36.5
127.5°	35.1
130°	33.7
132.5°	32.3
135°	32.3
137.5°	32.3
140°	32.3
142.5°	32.3
145°	32.3
147.5°	32.3
150°	32.3
152.5°	32.3
155°	32.3
157.5°	30.9
160°	30.9
162.5°	29.5
165°	28.1
167.5°	28.1
170°	26.7
172.5°	25.3
175°	25.3
177.5°	26.7
180°	26.7

(END OF REPORT)