

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: P980591

Luminaire Tested: UHBS2-1218-N-L83065-HIGH-5000K-CLR3

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980591
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-5000K-CLR3
Description: UHBS2 LED High Bay at 5000K and HIGH lumen setting 3in Deep Clear Refractor
Light Source: -
Ballast/Driver: -

Summary

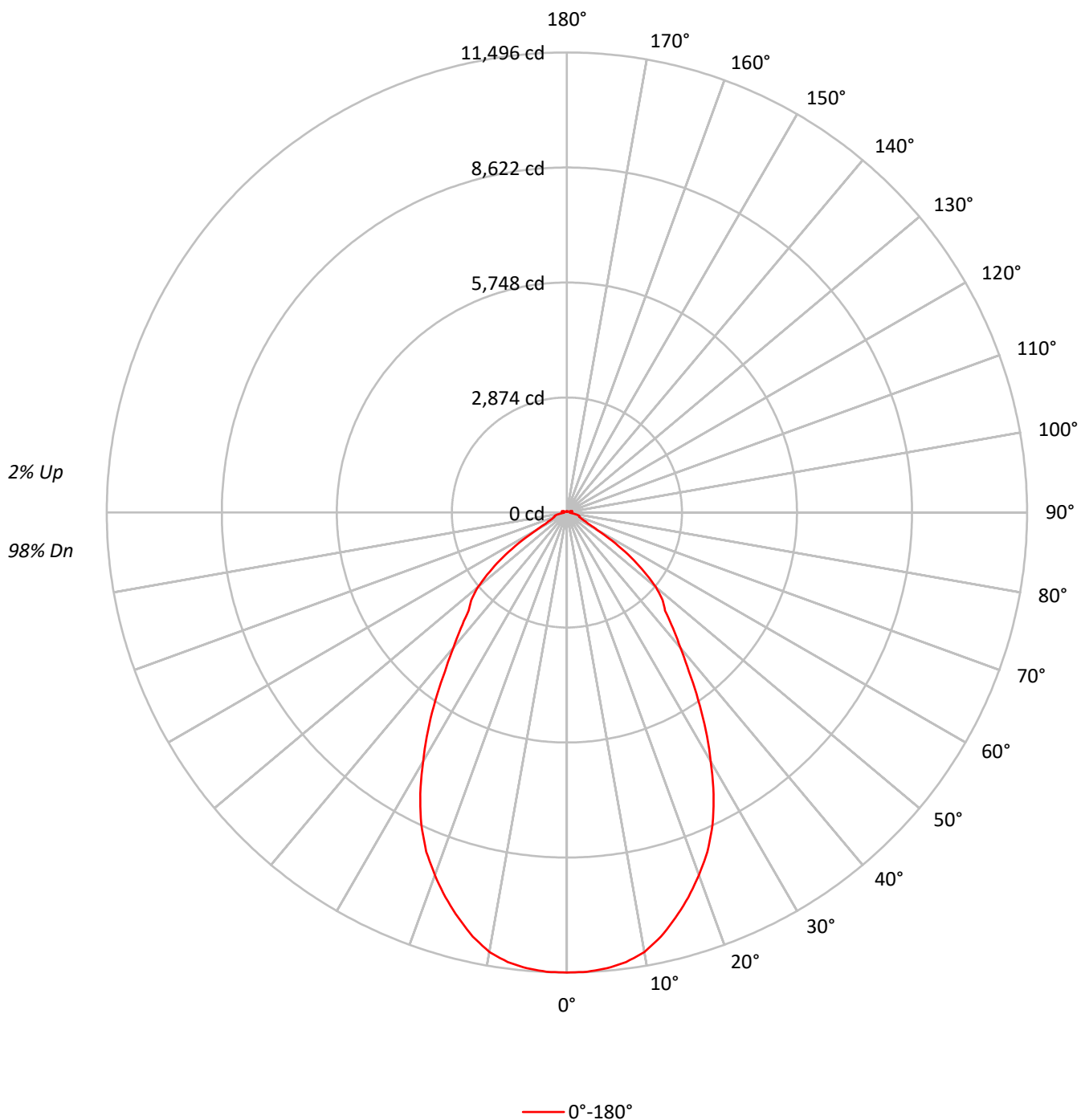
Lumens per Lamp: N/A
Luminaire Lumens: 17296.1 lumens
Efficiency: N/A
Efficacy: 145.1 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.03
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 0.25')
CIE Type: Direct

Input Watts (W): 119.2
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°	115890
5°	112989
10°	108899
15°	101955
20°	94095
25°	84930
30°	72287
35°	59086
40°	47180
45°	38835
50°	34365
55°	24835
60°	12076
65°	7009
70°	5723
75°	5873
80°	4194
85°	2465

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 38835 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1082.7	6.3
10°-20°	2941.9	17.0
20°-30°	3916.6	22.6
30°-40°	3574.9	20.7
40°-50°	2751.1	15.9
50°-60°	1714.6	9.9
60°-70°	506.2	2.9
70°-80°	303.5	1.8
80°-90°	110.7	0.6
90°-100°	98.0	0.6
100°-110°	127.8	0.7
110°-120°	63.2	0.4
120°-130°	33.4	0.2
130°-140°	25.4	0.1
140°-150°	20.5	0.1
150°-160°	14.9	0.1
160°-170°	8.2	0.0
170°-180°	2.5	0.0
0°-30°	7941.1	45.9
0°-40°	11516.0	66.6
0°-60°	15981.7	92.4
0°-90°	16902.1	97.7
90°-120°	289.1	1.7
90°-150°	368.4	2.1
90°-180°	394.0	2.3
0°-180°	17296.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11496	
5°	11433	###
15°	10484	2942
25°	8608	3917
35°	5719	3575
45°	3468	2751
55°	1964	1715
65°	466	506
75°	304	304
85°	88	92
90°	65	37
95°	86	79
105°	127	128
115°	61	63
125°	37	33
135°	33	25
145°	33	20
155°	33	15
165°	28	8
175°	26	2
180°	27	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	11496.4
2.5°	11487.9
5°	11432.7
7.5°	11332.2
10°	11150.9
12.5°	10859.2
15°	10484.0
17.5°	10083.3
20°	9642.9
22.5°	9175.6
25°	8607.8
27.5°	7935.2
30°	7189.0
32.5°	6461.2
35°	5719.2
37.5°	5005.5
40°	4406.6
42.5°	3920.9
45°	3467.8
47.5°	3244.0
50°	2904.2
52.5°	2431.3
55°	1964.0
57.5°	1433.0
60°	882.2
62.5°	591.9
65°	465.9
67.5°	383.7
70°	339.8
72.5°	325.7
75°	304.4
77.5°	257.7
80°	184.1
82.5°	123.2
85°	87.8
87.5°	70.8
90°	65.1
92.5°	72.2
95°	86.4
97.5°	106.2
100°	124.6
102.5°	133.1
105°	127.4
107.5°	113.3
110°	93.5

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	75.0
115°	60.9
117.5°	49.6
120°	42.5
122.5°	38.2
125°	36.8
127.5°	35.4
130°	34.0
132.5°	32.6
135°	32.6
137.5°	32.6
140°	32.6
142.5°	32.6
145°	32.6
147.5°	32.6
150°	32.6
152.5°	32.6
155°	32.6
157.5°	31.2
160°	31.2
162.5°	29.7
165°	28.3
167.5°	28.3
170°	26.9
172.5°	25.5
175°	25.5
177.5°	26.9
180°	26.9

(END OF REPORT)