

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: P980636

Luminaire Tested: UHBS2-1218-W-L83065-LOW-4000K-CLR3

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980636
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-344-1)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: UHBS2-1218-W-L83065-LOW-4000K-CLR3
Description: UHBS2 LED High Bay at 4000K and LOW lumen setting 3in Deep Clear Refractor
Light Source: -
Ballast/Driver: -

Summary

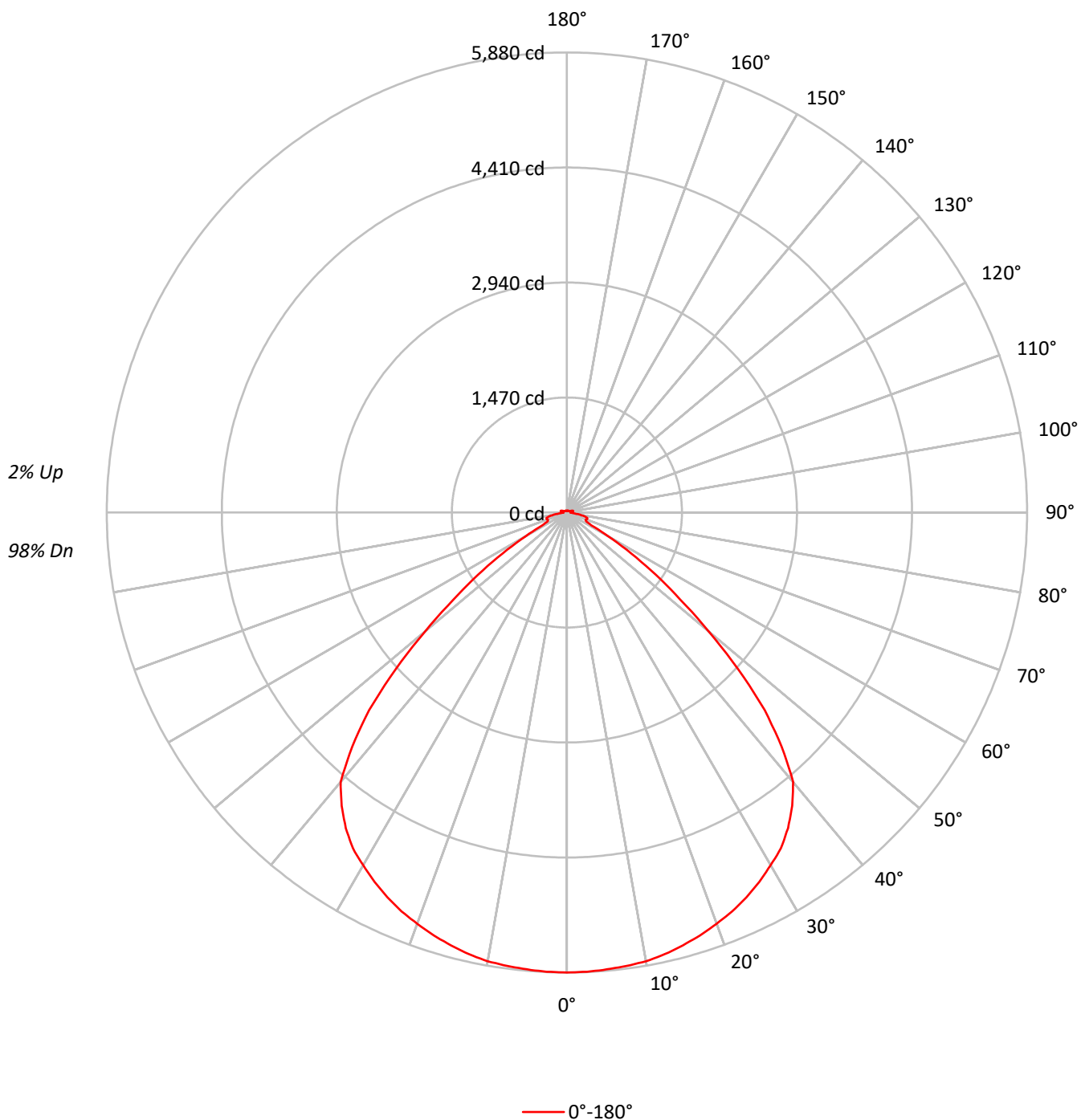
Lumens per Lamp: N/A
Luminaire Lumens: 12660.1 lumens
Efficiency: N/A
Efficacy: 161.1 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.31 / 1.34
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 0.25')
CIE Type: Direct

Input Watts (W): 78.6
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 7.2
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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	110	110	110		105	105	105		100
1	111	107	104	101	108	105	102	99	100	98	95		96	94	92		92
2	103	96	91	86	100	94	89	85	90	86	83		87	84	81		84
3	95	87	80	75	93	85	79	74	82	77	72		79	75	71		76
4	88	78	71	65	86	77	70	65	74	68	64		72	67	63		70
5	82	71	63	58	80	70	63	57	68	61	57		66	60	56		64
6	76	65	57	51	74	64	56	51	62	55	50		60	54	50		58
7	71	59	51	46	69	58	51	46	57	50	45		55	49	45		54
8	67	54	47	41	65	54	46	41	52	46	41		51	45	41		50
9	62	50	43	38	61	49	42	37	48	42	37		47	41	37		46
10	58	46	39	34	57	46	39	34	45	38	34		44	38	34		43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	59274
5°	57936
10°	56883
15°	55692
20°	54579
25°	53555
30°	52347
35°	50881
40°	48150
45°	40004
50°	27965
55°	17509
60°	8287
65°	4172
70°	4433
75°	5188
80°	3984
85°	2032

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 40004 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	558.4	4.4
10°-20°	1618.3	12.8
20°-30°	2502.0	19.8
30°-40°	3068.3	24.2
40°-50°	2694.8	21.3
50°-60°	1256.5	9.9
60°-70°	326.4	2.6
70°-80°	263.5	2.1
80°-90°	94.4	0.7
90°-100°	61.1	0.5
100°-110°	84.0	0.7
110°-120°	48.4	0.4
120°-130°	26.5	0.2
130°-140°	20.0	0.2
140°-150°	17.1	0.1
150°-160°	12.4	0.1
160°-170°	6.3	0.0
170°-180°	1.7	0.0
0°-30°	4678.7	37.0
0°-40°	7747.0	61.2
0°-60°	11698.3	92.4
0°-90°	12382.7	97.8
90°-120°	193.5	1.5
90°-150°	257.1	2.0
90°-180°	277.0	2.2
0°-180°	12660.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5880	
5°	5862	558
15°	5727	1618
25°	5428	2502
35°	4925	3068
45°	3572	2695
55°	1385	1257
65°	277	326
75°	269	264
85°	72	81
90°	43	25
95°	54	49
105°	84	84
115°	47	48
125°	29	27
135°	25	20
145°	27	17
155°	27	12
165°	22	6
175°	17	2
180°	17	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	5880.0
2.5°	5875.3
5°	5862.2
7.5°	5845.3
10°	5824.6
12.5°	5782.3
15°	5726.8
17.5°	5665.7
20°	5593.3
22.5°	5518.1
25°	5427.9
27.5°	5321.7
30°	5206.0
32.5°	5089.5
35°	4925.0
37.5°	4726.6
40°	4497.2
42.5°	4062.0
45°	3572.2
47.5°	2971.5
50°	2363.3
52.5°	1825.6
55°	1384.7
57.5°	973.9
60°	605.4
62.5°	351.6
65°	277.3
67.5°	259.5
70°	263.2
72.5°	273.6
75°	268.9
77.5°	236.0
80°	174.9
82.5°	112.8
85°	72.4
87.5°	52.6
90°	43.2
92.5°	46.1
95°	53.6
97.5°	64.9
100°	76.1
102.5°	83.7
105°	83.7
107.5°	78.0
110°	67.7



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	56.4
115°	47.0
117.5°	39.5
120°	34.8
122.5°	31.0
125°	29.1
127.5°	27.3
130°	26.3
132.5°	25.4
135°	25.4
137.5°	26.3
140°	26.3
142.5°	27.3
145°	27.3
147.5°	27.3
150°	27.3
152.5°	27.3
155°	27.3
157.5°	26.3
160°	24.4
162.5°	23.5
165°	21.6
167.5°	20.7
170°	18.8
172.5°	16.9
175°	16.9
177.5°	16.9
180°	16.9

(END OF REPORT)