

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: P980642

Luminaire Tested: UHBS2-1218-W-L83065-LOW-6500K-CLR3

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980642
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-6500K-CLR3
Description: UHBS2 LED High Bay at 6500K and LOW lumen setting 3in Deep Clear Refractor
Light Source: -
Ballast/Driver: -

Summary

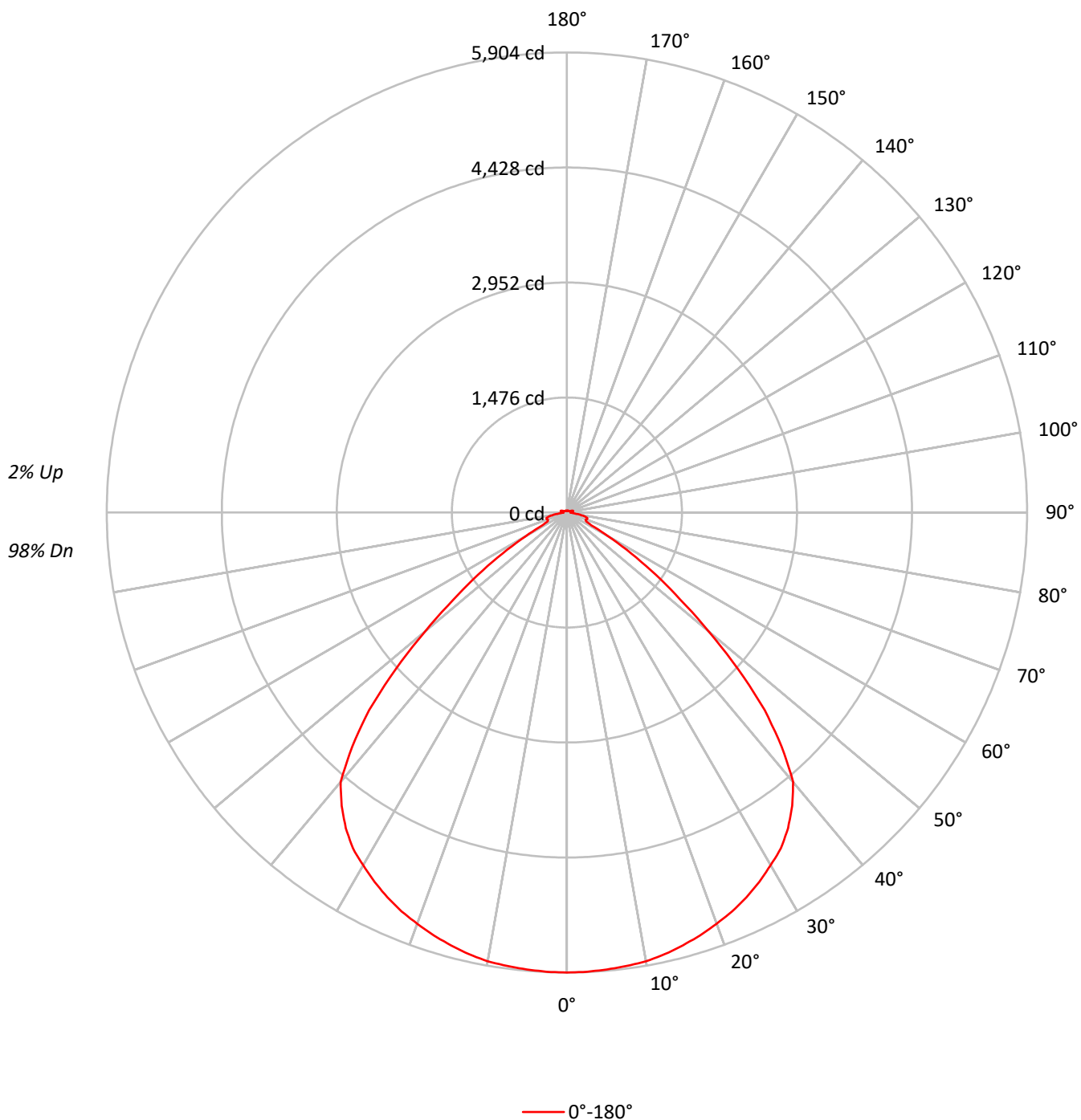
Lumens per Lamp: N/A
Luminaire Lumens: 12712.1 lumens
Efficiency: N/A
Efficacy: 158.1 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.31 / 1.34
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 0.25')
CIE Type: Direct

Input Watts (W): 80.4
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°	59517
5°	58174
10°	57116
15°	55920
20°	54803
25°	53775
30°	52562
35°	51090
40°	48348
45°	40169
50°	28079
55°	17582
60°	8321
65°	4190
70°	4451
75°	5209
80°	4000
85°	2041

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 40169 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	560.7	4.4
10°-20°	1625.0	12.8
20°-30°	2512.3	19.8
30°-40°	3080.9	24.2
40°-50°	2705.9	21.3
50°-60°	1261.7	9.9
60°-70°	327.8	2.6
70°-80°	264.6	2.1
80°-90°	94.9	0.7
90°-100°	61.4	0.5
100°-110°	84.3	0.7
110°-120°	48.6	0.4
120°-130°	26.6	0.2
130°-140°	20.1	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°	4698.0	37.0
0°-40°	7778.8	61.2
0°-60°	11746.4	92.4
0°-90°	12433.6	97.8
90°-120°	194.2	1.5
90°-150°	258.1	2.0
90°-180°	278.0	2.2
0°-180°	12712.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5904	
5°	5886	561
15°	5750	1625
25°	5450	2512
35°	4945	3081
45°	3587	2706
55°	1390	1262
65°	278	328
75°	270	265
85°	73	82
90°	43	25
95°	54	49
105°	84	84
115°	47	49
125°	29	27
135°	26	20
145°	27	17
155°	27	12
165°	22	6
175°	17	2
180°	17	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	5904.2
2.5°	5899.5
5°	5886.3
7.5°	5869.3
10°	5848.5
12.5°	5806.0
15°	5750.3
17.5°	5689.0
20°	5616.3
22.5°	5540.8
25°	5450.2
27.5°	5343.5
30°	5227.4
32.5°	5110.4
35°	4945.2
37.5°	4746.0
40°	4515.7
42.5°	4078.7
45°	3586.9
47.5°	2983.7
50°	2373.0
52.5°	1833.1
55°	1390.4
57.5°	977.9
60°	607.9
62.5°	353.0
65°	278.5
67.5°	260.5
70°	264.3
72.5°	274.7
75°	270.0
77.5°	236.9
80°	175.6
82.5°	113.3
85°	72.7
87.5°	52.9
90°	43.4
92.5°	46.3
95°	53.8
97.5°	65.1
100°	76.5
102.5°	84.0
105°	84.0
107.5°	78.3
110°	68.0



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	56.6
115°	47.2
117.5°	39.6
120°	34.9
122.5°	31.1
125°	29.3
127.5°	27.4
130°	26.4
132.5°	25.5
135°	25.5
137.5°	26.4
140°	26.4
142.5°	27.4
145°	27.4
147.5°	27.4
150°	27.4
152.5°	27.4
155°	27.4
157.5°	26.4
160°	24.5
162.5°	23.6
165°	21.7
167.5°	20.8
170°	18.9
172.5°	17.0
175°	17.0
177.5°	17.0
180°	17.0

(END OF REPORT)