

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: P980608

Luminaire Tested: UHBS2-1218-N-L83065-MID-3500K-FRR6

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980608
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-344-9)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: UHBS2-1218-N-L83065-MID-3500K-FRR6
Description: UHBS2 LED High Bay at 3500K and MID lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

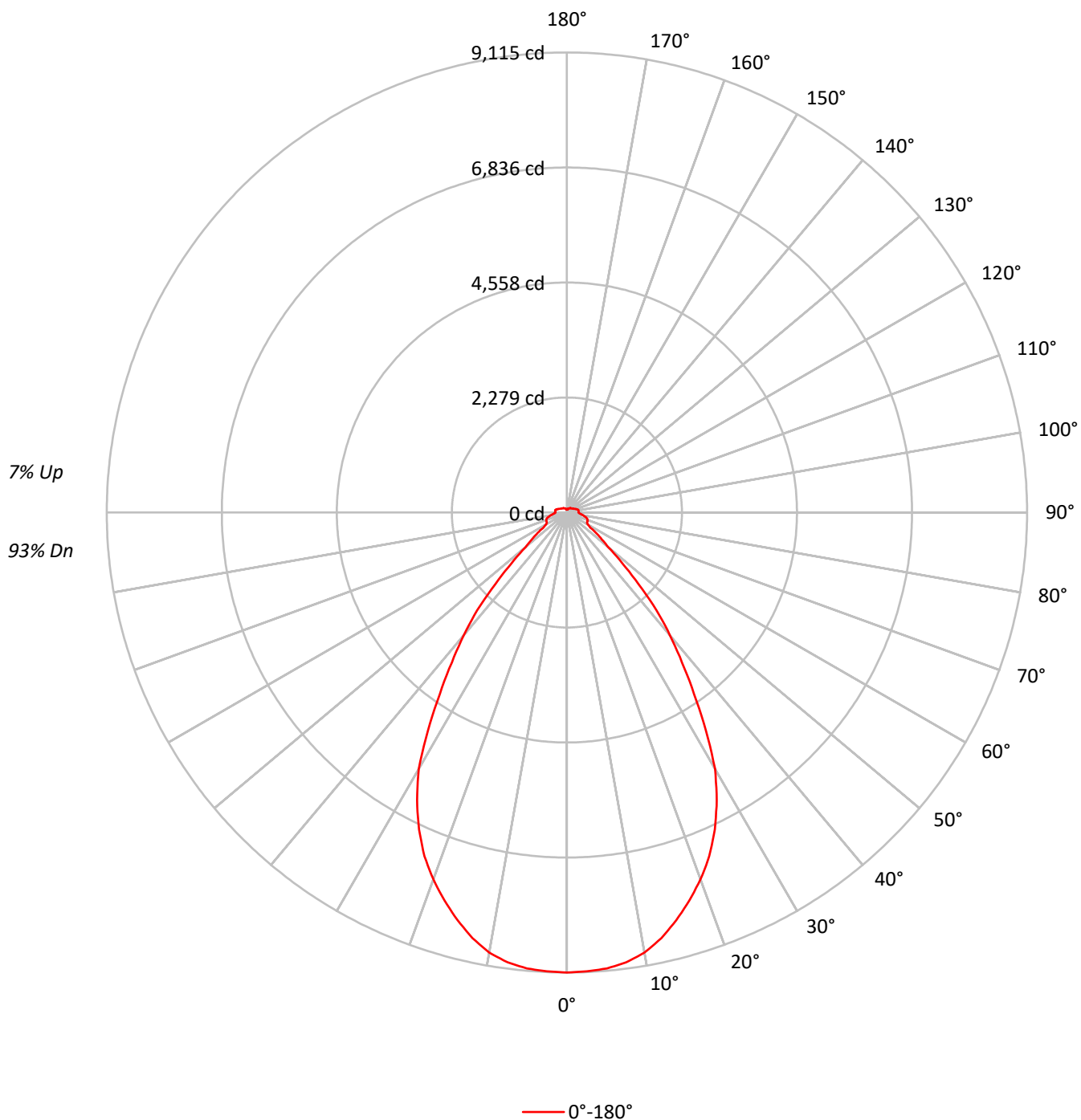
Lumens per Lamp: N/A
Luminaire Lumens: 13497.1 lumens
Efficiency: N/A
Efficacy: 138.3 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.01
Luminous Opening: Vertical Cylinder (Dia: 1.3' x H: 0.5')
CIE Type: Direct

Input Watts (W): 97.6
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
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95
1	109	105	102	99	106	102	99	97	97	94	92	92	90	88	87	86	84
2	102	95	90	85	99	93	88	84	88	84	81	84	81	78	80	78	75
3	95	87	80	75	92	85	79	74	81	76	72	77	73	70	74	71	68
4	89	79	72	67	86	78	71	66	74	69	65	71	67	63	69	65	62
5	83	73	66	60	81	71	65	60	69	63	58	66	61	57	64	59	56
6	78	67	60	55	76	66	59	54	64	58	53	61	56	52	59	55	51
7	73	62	55	50	71	61	54	50	59	53	49	57	52	48	55	51	47
8	69	58	51	46	67	57	50	46	55	49	45	53	48	44	52	47	44
9	65	54	47	42	64	53	47	42	52	46	42	50	45	41	49	44	40
10	62	50	44	39	60	50	43	39	48	43	39	47	42	38	46	41	38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	73807
5°	70678
10°	67012
15°	61993
20°	56594
25°	50418
30°	42763
35°	32329
40°	23799
45°	15406
50°	8502
55°	5832
60°	4193
65°	4113
70°	4409
75°	4409
80°	4013
85°	3689

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 15406 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	858.9	6.4
10°-20°	2347.8	17.4
20°-30°	3160.2	23.4
30°-40°	2758.6	20.4
40°-50°	1573.4	11.7
50°-60°	643.4	4.8
60°-70°	443.7	3.3
70°-80°	413.6	3.1
80°-90°	291.3	2.2
90°-100°	253.6	1.9
100°-110°	232.3	1.7
110°-120°	170.4	1.3
120°-130°	123.3	0.9
130°-140°	92.3	0.7
140°-150°	65.7	0.5
150°-160°	41.9	0.3
160°-170°	21.1	0.2
170°-180°	5.6	0.0
0°-30°	6366.9	47.2
0°-40°	9125.5	67.6
0°-60°	11342.3	84.0
0°-90°	12490.9	92.5
90°-120°	656.3	4.9
90°-150°	937.6	6.9
90°-180°	1006.0	7.5
0°-180°	13497.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9115	
5°	9068	859
15°	8365	2348
25°	6931	3160
35°	4391	2759
45°	2004	1573
55°	702	643
65°	440	444
75°	398	414
85°	262	227
90°	228	127
95°	232	191
105°	222	232
115°	170	170
125°	136	123
135°	118	92
145°	104	66
155°	90	42
165°	74	21
175°	58	6
180°	56	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	9115.3
2.5°	9100.6
5°	9067.9
7.5°	8991.2
10°	8853.6
12.5°	8639.2
15°	8365.0
17.5°	8060.4
20°	7737.7
22.5°	7369.9
25°	6931.0
27.5°	6426.6
30°	5865.9
32.5°	5120.1
35°	4391.2
37.5°	3744.7
40°	3176.1
42.5°	2630.0
45°	2003.8
47.5°	1489.3
50°	1068.5
52.5°	873.3
55°	701.8
57.5°	543.8
60°	478.4
62.5°	450.2
65°	440.0
67.5°	441.2
70°	436.6
72.5°	423.1
75°	398.3
77.5°	363.3
80°	324.9
82.5°	291.1
85°	261.8
87.5°	239.2
90°	227.9
92.5°	230.2
95°	232.4
97.5°	235.8
100°	234.7
102.5°	230.2
105°	222.3
107.5°	209.9
110°	196.3

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	182.8
115°	170.4
117.5°	159.1
120°	150.1
122.5°	143.3
125°	136.5
127.5°	130.9
130°	126.4
132.5°	123.0
135°	118.5
137.5°	115.1
140°	111.7
142.5°	108.3
145°	103.8
147.5°	100.4
150°	97.0
152.5°	93.6
155°	90.3
157.5°	86.9
160°	82.4
162.5°	77.9
165°	74.5
167.5°	68.8
170°	63.2
172.5°	57.5
175°	57.5
177.5°	56.4
180°	56.4

(END OF REPORT)