

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: P980553

Luminaire Tested: UHBS2-1218-M-L83065-HIGH-6500K-FRR3

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980553
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-344-5)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: UHBS2-1218-M-L83065-HIGH-6500K-FRR3
Description: UHBS2 LED High Bay at 6500K and HIGH lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

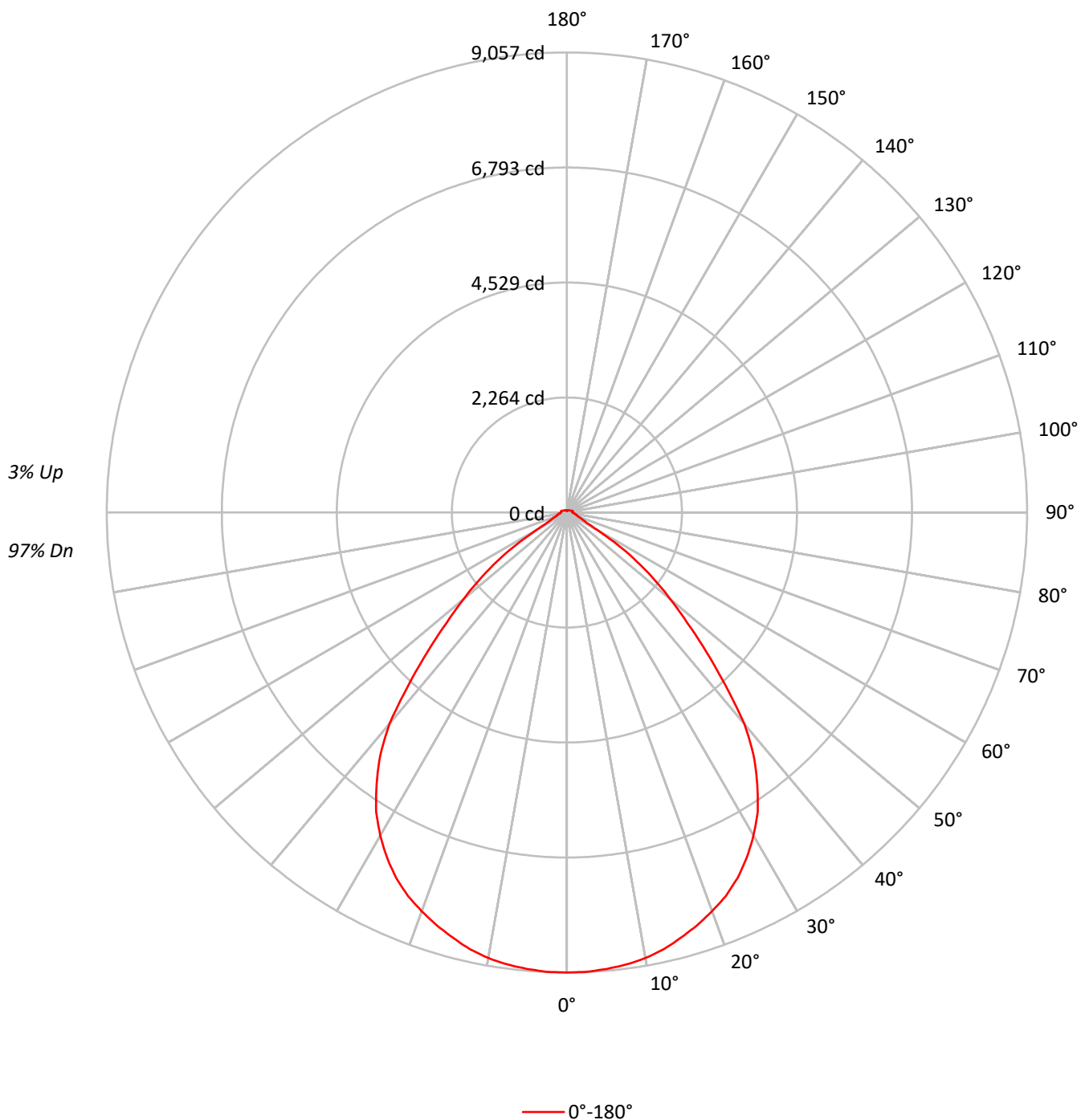
Lumens per Lamp: N/A
Luminaire Lumens: 16762.0 lumens
Efficiency: N/A
Efficacy: 137.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.22
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 0.25')
CIE Type: Direct

Input Watts (W): 122.1
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99
1	111	107	104	101	108	105	102	99	100	98	96	96	94	92	92	90	89
2	103	97	92	87	101	95	90	86	91	87	84	87	84	81	84	82	79
3	96	88	81	76	94	86	80	75	83	78	74	80	76	72	77	74	71
4	89	80	73	67	87	78	72	67	76	70	65	73	68	64	71	67	63
5	83	73	65	60	81	72	65	59	69	63	59	67	62	58	65	61	57
6	78	67	59	54	76	66	58	53	64	57	53	62	56	52	60	55	51
7	73	61	54	48	71	60	53	48	59	52	48	57	51	47	55	50	47
8	68	56	49	44	67	56	49	44	54	48	43	53	47	43	51	46	42
9	64	52	45	40	63	51	45	40	50	44	40	49	43	39	48	43	39
10	60	48	41	37	59	48	41	37	47	41	36	46	40	36	45	39	36

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	91296
5°	89146
10°	86992
15°	84287
20°	81525
25°	78384
30°	73863
35°	67492
40°	58188
45°	43357
50°	31459
55°	21238
60°	9446
65°	5348
70°	4116
75°	3783
80°	3752
85°	3815

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 43357 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	857.6	5.1
10°-20°	2445.8	14.6
20°-30°	3646.4	21.8
30°-40°	4052.2	24.2
40°-50°	3019.6	18.0
50°-60°	1488.3	8.9
60°-70°	383.4	2.3
70°-80°	210.8	1.3
80°-90°	149.1	0.9
90°-100°	126.7	0.8
100°-110°	119.5	0.7
110°-120°	86.1	0.5
120°-130°	61.2	0.4
130°-140°	46.0	0.3
140°-150°	33.5	0.2
150°-160°	21.7	0.1
160°-170°	11.1	0.1
170°-180°	3.0	0.0
0°-30°	6949.8	41.5
0°-40°	11002.1	65.6
0°-60°	15509.9	92.5
0°-90°	16253.2	97.0
90°-120°	332.3	2.0
90°-150°	473.0	2.8
90°-180°	509.0	3.0
0°-180°	16762.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9057	
5°	9020	858
15°	8667	2446
25°	7944	3646
35°	6533	4052
45°	3872	3020
55°	1680	1488
65°	356	383
75°	196	211
85°	136	117
90°	111	63
95°	116	96
105°	114	120
115°	86	86
125°	68	61
135°	59	46
145°	54	33
155°	47	22
165°	39	11
175°	30	3
180°	30	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	9056.7
2.5°	9050.2
5°	9020.1
7.5°	8975.7
10°	8907.7
12.5°	8808.4
15°	8667.2
17.5°	8520.8
20°	8354.8
22.5°	8170.5
25°	7944.4
27.5°	7664.7
30°	7345.8
32.5°	6988.9
35°	6532.8
37.5°	6038.7
40°	5434.8
42.5°	4621.8
45°	3871.6
47.5°	3208.9
50°	2658.6
52.5°	2165.8
55°	1679.6
57.5°	1190.7
60°	690.1
62.5°	439.2
65°	355.5
67.5°	292.8
70°	244.4
72.5°	218.3
75°	196.1
77.5°	179.1
80°	164.7
82.5°	150.3
85°	135.9
87.5°	122.9
90°	111.1
92.5°	113.7
95°	116.3
97.5°	118.9
100°	120.3
102.5°	118.9
105°	113.7
107.5°	108.5
110°	100.6

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	92.8
115°	86.3
117.5°	79.7
120°	74.5
122.5°	70.6
125°	68.0
127.5°	65.4
130°	62.7
132.5°	61.4
135°	58.8
137.5°	57.5
140°	56.2
142.5°	54.9
145°	53.6
147.5°	51.0
150°	49.7
152.5°	48.4
155°	47.1
157.5°	44.4
160°	43.1
162.5°	40.5
165°	39.2
167.5°	36.6
170°	34.0
172.5°	31.4
175°	30.1
177.5°	31.4
180°	30.1

(END OF REPORT)