

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: P980547

Luminaire Tested: UHBS2-1218-M-L83065-HIGH-4000K-FRR3

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980547
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-4000K-FRR3
Description: UHBS2 LED High Bay at 4000K and HIGH lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

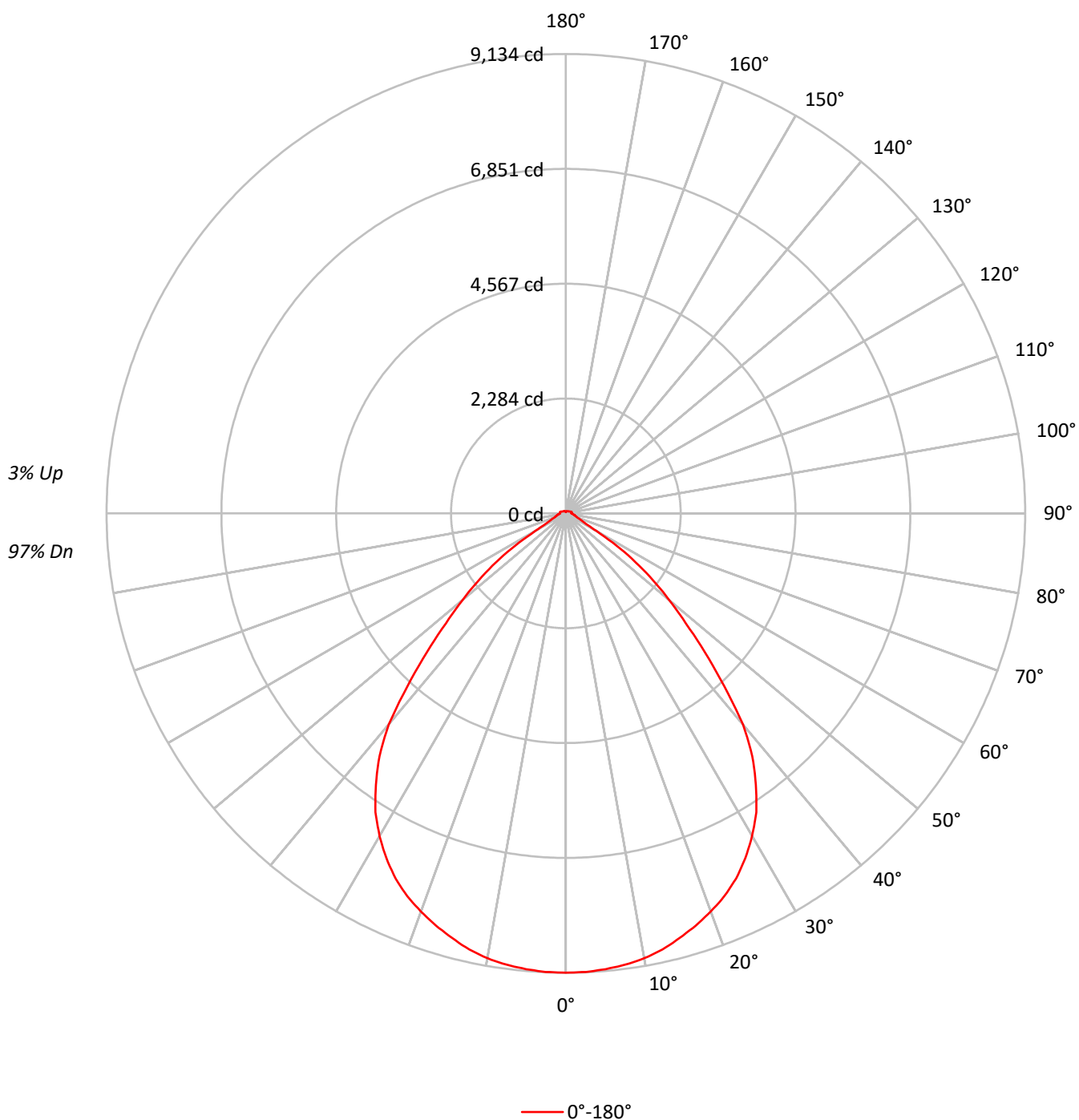
Lumens per Lamp: N/A
Luminaire Lumens: 16904.0 lumens
Efficiency: N/A
Efficacy: 141.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.22
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 0.25')
CIE Type: Direct

Input Watts (W): 119.1
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°	92071
5°	89901
10°	87729
15°	85000
20°	82216
25°	79048
30°	74489
35°	68063
40°	58682
45°	43725
50°	31725
55°	21418
60°	9527
65°	5394
70°	4151
75°	3814
80°	3784
85°	3849

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 43725 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	864.8	5.1
10°-20°	2466.6	14.6
20°-30°	3677.3	21.8
30°-40°	4086.5	24.2
40°-50°	3045.2	18.0
50°-60°	1500.9	8.9
60°-70°	386.6	2.3
70°-80°	212.5	1.3
80°-90°	150.4	0.9
90°-100°	127.8	0.8
100°-110°	120.5	0.7
110°-120°	86.8	0.5
120°-130°	61.7	0.4
130°-140°	46.4	0.3
140°-150°	33.7	0.2
150°-160°	21.8	0.1
160°-170°	11.2	0.1
170°-180°	3.0	0.0
0°-30°	7008.7	41.5
0°-40°	11095.2	65.6
0°-60°	15641.3	92.5
0°-90°	16390.9	97.0
90°-120°	335.2	2.0
90°-150°	477.1	2.8
90°-180°	513.0	3.0
0°-180°	16904.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9134	
5°	9096	865
15°	8741	2467
25°	8012	3677
35°	6588	4087
45°	3904	3045
55°	1694	1501
65°	358	387
75°	198	213
85°	137	118
90°	112	63
95°	117	97
105°	115	121
115°	87	87
125°	68	62
135°	59	46
145°	54	34
155°	48	22
165°	40	11
175°	30	3
180°	30	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	9133.5
2.5°	9126.9
5°	9096.5
7.5°	9051.7
10°	8983.2
12.5°	8883.0
15°	8740.6
17.5°	8593.0
20°	8425.6
22.5°	8239.7
25°	8011.7
27.5°	7729.6
30°	7408.0
32.5°	7048.1
35°	6588.1
37.5°	6089.8
40°	5480.9
42.5°	4661.0
45°	3904.4
47.5°	3236.1
50°	2681.1
52.5°	2184.2
55°	1693.8
57.5°	1200.8
60°	696.0
62.5°	442.9
65°	358.5
67.5°	295.3
70°	246.5
72.5°	220.1
75°	197.7
77.5°	180.6
80°	166.1
82.5°	151.6
85°	137.1
87.5°	123.9
90°	112.0
92.5°	114.7
95°	117.3
97.5°	120.0
100°	121.3
102.5°	120.0
105°	114.7
107.5°	109.4
110°	101.5

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	93.6
115°	87.0
117.5°	80.4
120°	75.1
122.5°	71.2
125°	68.5
127.5°	65.9
130°	63.3
132.5°	62.0
135°	59.3
137.5°	58.0
140°	56.7
142.5°	55.4
145°	54.0
147.5°	51.4
150°	50.1
152.5°	48.8
155°	47.5
157.5°	44.8
160°	43.5
162.5°	40.9
165°	39.5
167.5°	36.9
170°	34.3
172.5°	31.6
175°	30.3
177.5°	31.6
180°	30.3

(END OF REPORT)