

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: P980622

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

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980622
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-344-4)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: UHBS2-1218-W-L83065-HIGH-4000K-FRR3
Description: UHBS2 LED High Bay at 4000K and HIGH lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

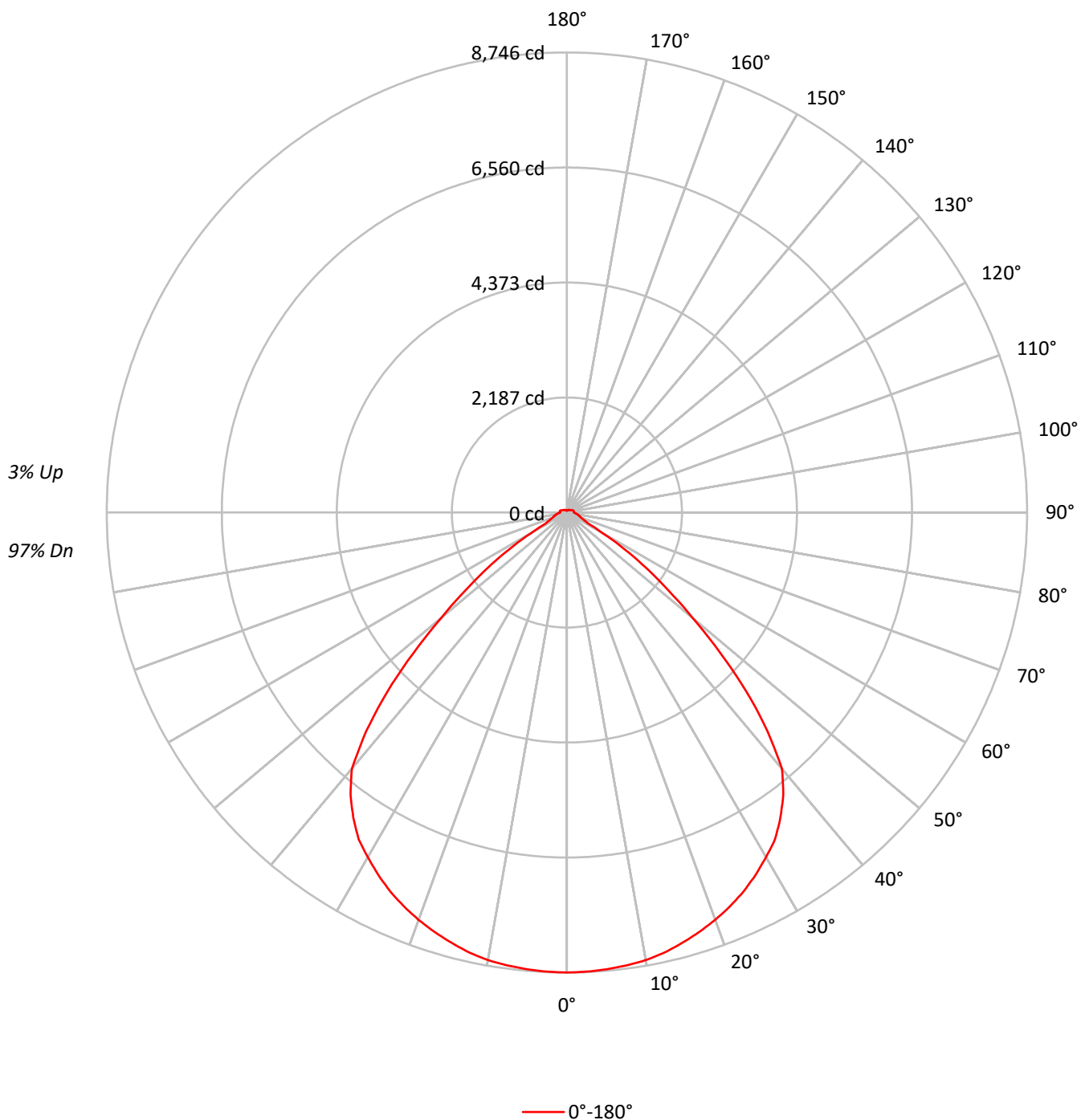
Lumens per Lamp: N/A
Luminaire Lumens: 18089.0 lumens
Efficiency: N/A
Efficacy: 151.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.31
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 0.25')
CIE Type: Direct

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	104	101	99	100	97	95	95	93	92	91	90	88
2	103	96	91	86	100	94	89	85	90	86	83	87	83	80	83	81	78
3	95	87	80	75	93	85	79	74	82	77	73	79	75	71	76	73	70
4	89	79	72	66	86	77	71	65	75	69	64	72	67	63	70	65	62
5	82	72	64	58	80	70	63	58	68	62	57	66	60	56	64	59	55
6	77	65	58	52	75	64	57	52	62	56	51	60	55	50	59	54	50
7	72	60	52	47	70	59	52	46	57	51	46	56	50	45	54	49	45
8	67	55	47	42	65	54	47	42	53	46	42	51	45	41	50	45	41
9	63	51	43	38	61	50	43	38	49	42	38	47	42	38	46	41	37
10	59	47	40	35	58	46	40	35	45	39	35	44	38	34	43	38	34

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	88159
5°	86133
10°	84390
15°	82381
20°	80413
25°	78427
30°	76091
35°	73109
40°	68072
45°	54199
50°	36885
55°	23255
60°	10888
65°	5737
70°	4874
75°	4682
80°	4625
85°	4620

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 54199 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	829.7	4.6
10°-20°	2392.6	13.2
20°-30°	3661.7	20.2
30°-40°	4407.4	24.4
40°-50°	3678.9	20.3
50°-60°	1667.0	9.2
60°-70°	423.3	2.3
70°-80°	257.7	1.4
80°-90°	179.9	1.0
90°-100°	145.1	0.8
100°-110°	136.8	0.8
110°-120°	101.8	0.6
120°-130°	72.6	0.4
130°-140°	54.5	0.3
140°-150°	39.1	0.2
150°-160°	25.0	0.1
160°-170°	12.6	0.1
170°-180°	3.4	0.0
0°-30°	6884.1	38.1
0°-40°	11291.4	62.4
0°-60°	16637.3	92.0
0°-90°	17498.2	96.7
90°-120°	383.7	2.1
90°-150°	549.9	3.0
90°-180°	591.0	3.3
0°-180°	18089.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8746	
5°	8715	830
15°	8471	2393
25°	7949	3662
35°	7076	4407
45°	4840	3679
55°	1839	1667
65°	381	423
75°	243	258
85°	165	142
90°	129	73
95°	133	110
105°	130	137
115°	102	102
125°	81	73
135°	70	55
145°	62	39
155°	54	25
165°	44	13
175°	34	3
180°	33	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	8745.5
2.5°	8738.6
5°	8715.3
7.5°	8686.5
10°	8641.3
12.5°	8569.9
15°	8471.2
17.5°	8362.9
20°	8240.8
22.5°	8103.7
25°	7948.7
27.5°	7766.3
30°	7567.4
32.5°	7363.1
35°	7076.5
37.5°	6755.6
40°	6357.9
42.5°	5646.1
45°	4839.7
47.5°	3957.9
50°	3117.2
52.5°	2428.8
55°	1839.1
57.5°	1296.0
60°	795.4
62.5°	463.5
65°	381.3
67.5°	329.1
70°	289.4
72.5°	264.7
75°	242.7
77.5°	222.2
80°	203.0
82.5°	183.8
85°	164.6
87.5°	145.4
90°	128.9
92.5°	130.3
95°	133.0
97.5°	135.8
100°	137.1
102.5°	134.4
105°	130.3
107.5°	124.8
110°	117.9

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	109.7
115°	101.5
117.5°	94.6
120°	89.1
122.5°	83.7
125°	80.9
127.5°	76.8
130°	74.1
132.5°	72.7
135°	69.9
137.5°	68.6
140°	65.8
142.5°	64.5
145°	61.7
147.5°	60.3
150°	57.6
152.5°	56.2
155°	53.5
157.5°	52.1
160°	49.4
162.5°	46.6
165°	43.9
167.5°	41.1
170°	38.4
172.5°	34.3
175°	34.3
177.5°	34.3
180°	32.9

(END OF REPORT)