

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: P980619

Luminaire Tested: UHBS2-1218-W-L83065-HIGH-3500K-FRR3

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980619
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-3500K-FRR3
Description: UHBS2 LED High Bay at 3500K and HIGH lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

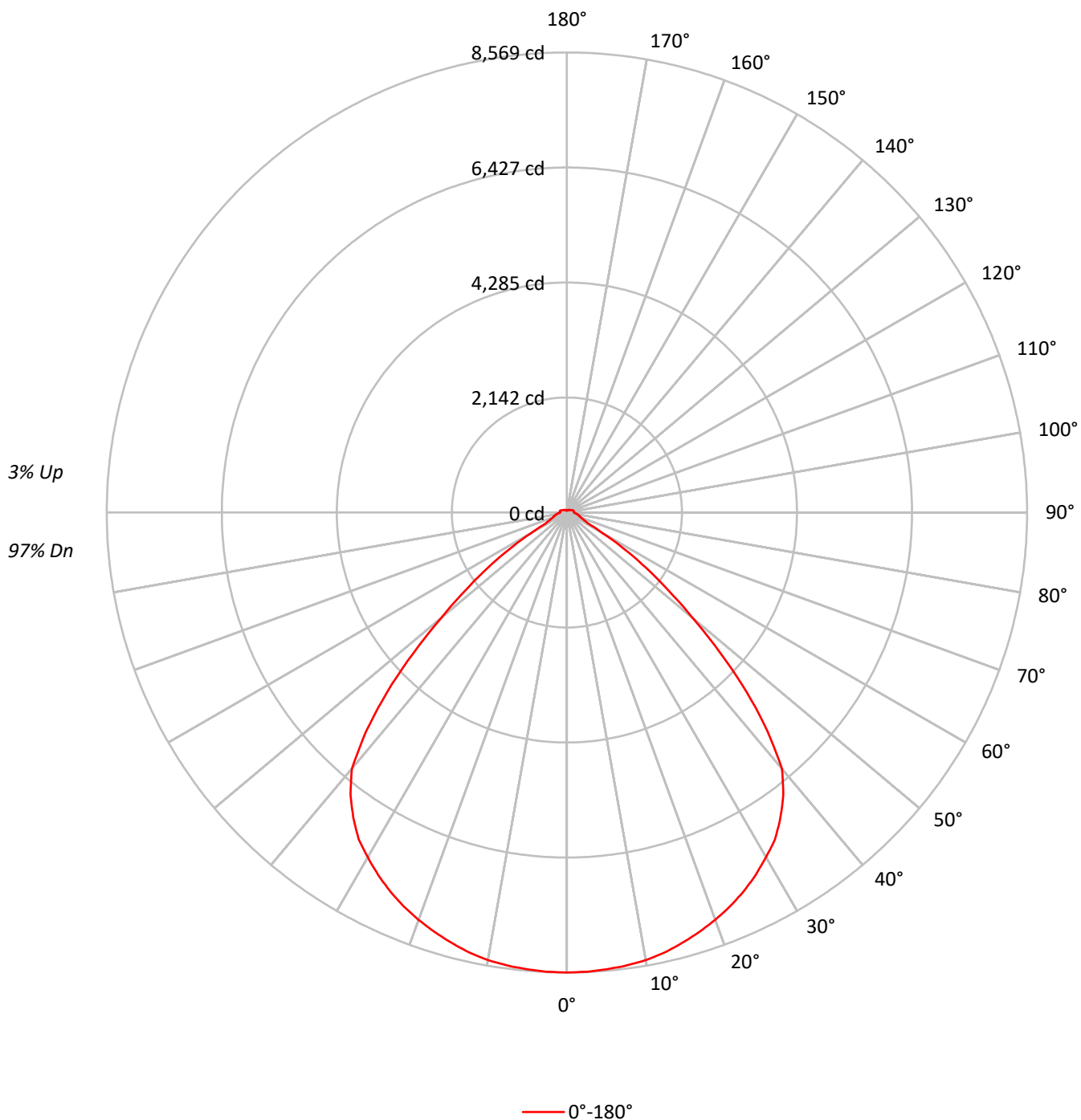
Lumens per Lamp: N/A
Luminaire Lumens: 17724.0 lumens
Efficiency: N/A
Efficacy: 147.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.31
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 0.25')
CIE Type: Direct

Input Watts (W): 120.5
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°	86380
5°	84396
10°	82687
15°	80719
20°	78790
25°	76844
30°	74556
35°	71634
40°	66698
45°	53106
50°	36141
55°	22786
60°	10669
65°	5621
70°	4775
75°	4588
80°	4531
85°	4525

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 53106 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	813.0	4.6
10°-20°	2344.3	13.2
20°-30°	3587.8	20.2
30°-40°	4318.4	24.4
40°-50°	3604.7	20.3
50°-60°	1633.3	9.2
60°-70°	414.8	2.3
70°-80°	252.5	1.4
80°-90°	176.2	1.0
90°-100°	142.2	0.8
100°-110°	134.1	0.8
110°-120°	99.7	0.6
120°-130°	71.1	0.4
130°-140°	53.4	0.3
140°-150°	38.3	0.2
150°-160°	24.5	0.1
160°-170°	12.3	0.1
170°-180°	3.3	0.0
0°-30°	6745.2	38.1
0°-40°	11063.6	62.4
0°-60°	16301.6	92.0
0°-90°	17145.1	96.7
90°-120°	376.0	2.1
90°-150°	538.8	3.0
90°-180°	579.0	3.3
0°-180°	17724.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8569	
5°	8540	813
15°	8300	2344
25°	7788	3588
35°	6934	4318
45°	4742	3605
55°	1802	1633
65°	374	415
75°	238	253
85°	161	139
90°	126	72
95°	130	107
105°	128	134
115°	99	100
125°	79	71
135°	68	53
145°	60	38
155°	52	25
165°	43	12
175°	34	3
180°	32	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	8569.0
2.5°	8562.3
5°	8539.5
7.5°	8511.2
10°	8466.9
12.5°	8397.0
15°	8300.3
17.5°	8194.1
20°	8074.5
22.5°	7940.1
25°	7788.3
27.5°	7609.6
30°	7414.7
32.5°	7214.5
35°	6933.7
37.5°	6619.3
40°	6229.6
42.5°	5532.2
45°	4742.1
47.5°	3878.0
50°	3054.3
52.5°	2379.8
55°	1802.0
57.5°	1269.8
60°	779.4
62.5°	454.2
65°	373.6
67.5°	322.5
70°	283.5
72.5°	259.3
75°	237.8
77.5°	217.7
80°	198.9
82.5°	180.1
85°	161.2
87.5°	142.4
90°	126.3
92.5°	127.7
95°	130.3
97.5°	133.0
100°	134.4
102.5°	131.7
105°	127.7
107.5°	122.3
110°	115.6

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	107.5
115°	99.4
117.5°	92.7
120°	87.3
122.5°	82.0
125°	79.3
127.5°	75.2
130°	72.6
132.5°	71.2
135°	68.5
137.5°	67.2
140°	64.5
142.5°	63.2
145°	60.5
147.5°	59.1
150°	56.4
152.5°	55.1
155°	52.4
157.5°	51.1
160°	48.4
162.5°	45.7
165°	43.0
167.5°	40.3
170°	37.6
172.5°	33.6
175°	33.6
177.5°	33.6
180°	32.2

(END OF REPORT)