

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: P980640

Luminaire Tested: UHBS2-1218-W-L83065-LOW-5000K-FRR3

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980640
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-LOW-5000K-FRR3
Description: UHBS2 LED High Bay at 5000K and LOW lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

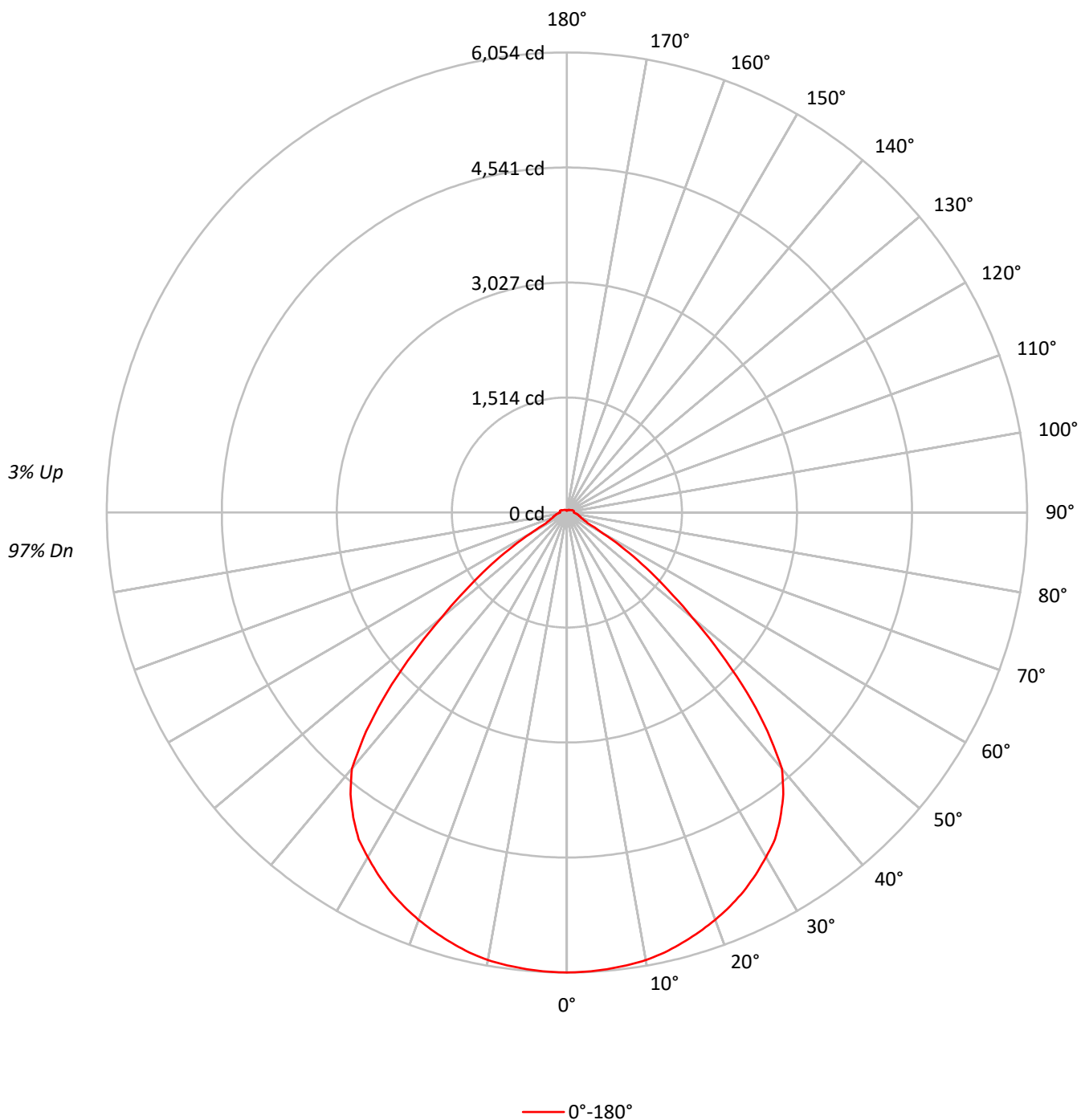
Lumens per Lamp: N/A
Luminaire Lumens: 12521.0 lumens
Efficiency: N/A
Efficacy: 158.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.31
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 0.25')
CIE Type: Direct

Input Watts (W): 79
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 7.2
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°	61022
5°	59620
10°	58414
15°	57023
20°	55661
25°	54286
30°	52670
35°	50605
40°	47118
45°	37516
50°	25532
55°	16097
60°	7537
65°	3970
70°	3373
75°	3241
80°	3201
85°	3197

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 37516 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	574.3	4.6
10°-20°	1656.2	13.2
20°-30°	2534.6	20.2
30°-40°	3050.7	24.4
40°-50°	2546.5	20.3
50°-60°	1153.9	9.2
60°-70°	293.0	2.3
70°-80°	178.4	1.4
80°-90°	124.5	1.0
90°-100°	100.5	0.8
100°-110°	94.7	0.8
110°-120°	70.4	0.6
120°-130°	50.2	0.4
130°-140°	37.7	0.3
140°-150°	27.1	0.2
150°-160°	17.3	0.1
160°-170°	8.7	0.1
170°-180°	2.3	0.0
0°-30°	4765.1	38.1
0°-40°	7815.8	62.4
0°-60°	11516.2	92.0
0°-90°	12112.0	96.7
90°-120°	265.6	2.1
90°-150°	380.6	3.0
90°-180°	409.0	3.3
0°-180°	12521.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6054	
5°	6033	574
15°	5864	1656
25°	5502	2535
35°	4898	3051
45°	3350	2547
55°	1273	1154
65°	264	293
75°	168	178
85°	114	98
90°	89	51
95°	92	76
105°	90	95
115°	70	70
125°	56	50
135°	48	38
145°	43	27
155°	37	17
165°	30	9
175°	24	2
180°	23	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	6053.5
2.5°	6048.8
5°	6032.6
7.5°	6012.7
10°	5981.4
12.5°	5932.0
15°	5863.7
17.5°	5788.7
20°	5704.2
22.5°	5609.3
25°	5502.0
27.5°	5375.7
30°	5238.1
32.5°	5096.7
35°	4898.3
37.5°	4676.1
40°	4400.8
42.5°	3908.2
45°	3350.0
47.5°	2739.6
50°	2157.7
52.5°	1681.2
55°	1273.0
57.5°	897.1
60°	550.6
62.5°	320.9
65°	263.9
67.5°	227.8
70°	200.3
72.5°	183.2
75°	168.0
77.5°	153.8
80°	140.5
82.5°	127.2
85°	113.9
87.5°	100.6
90°	89.2
92.5°	90.2
95°	92.1
97.5°	94.0
100°	94.9
102.5°	93.0
105°	90.2
107.5°	86.4
110°	81.6



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	75.9
115°	70.2
117.5°	65.5
120°	61.7
122.5°	57.9
125°	56.0
127.5°	53.2
130°	51.3
132.5°	50.3
135°	48.4
137.5°	47.5
140°	45.6
142.5°	44.6
145°	42.7
147.5°	41.8
150°	39.9
152.5°	38.9
155°	37.0
157.5°	36.1
160°	34.2
162.5°	32.3
165°	30.4
167.5°	28.5
170°	26.6
172.5°	23.7
175°	23.7
177.5°	23.7
180°	22.8

(END OF REPORT)