

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: P980637

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

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980637
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-4000K-FRR3
Description: UHBS2 LED High Bay at 4000K and LOW lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

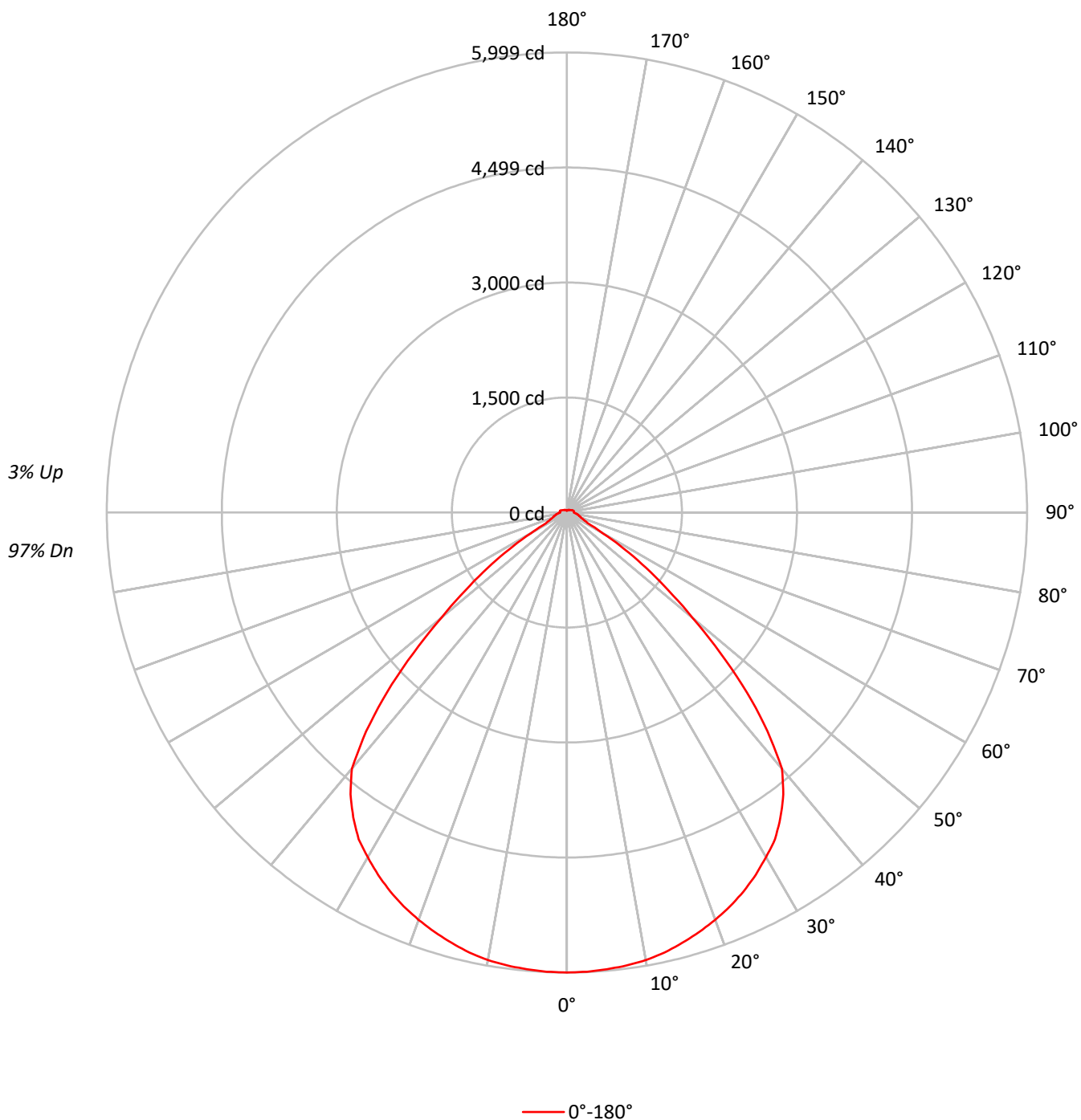
Lumens per Lamp: N/A
Luminaire Lumens: 12408.0 lumens
Efficiency: N/A
Efficacy: 157.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.31
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 0.25')
CIE Type: Direct

Input Watts (W): 78.6
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

TEST NUMBER: P980637

CATALOG NUMBER: UHBS2-1218-W-L83065-LOW-4000K-FRR3

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°	60472
5°	59082
10°	57887
15°	56509
20°	55159
25°	53796
30°	52194
35°	50149
40°	46693
45°	37178
50°	25301
55°	15952
60°	7468
65°	3934
70°	3343
75°	3212
80°	3171
85°	3169

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 37178 cd/sqm

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CATALOG NUMBER: UHBS2-1218-W-L83065-LOW-4000K-FRR3

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	569.1	4.6
10°-20°	1641.2	13.2
20°-30°	2511.7	20.2
30°-40°	3023.2	24.4
40°-50°	2523.5	20.3
50°-60°	1143.4	9.2
60°-70°	290.4	2.3
70°-80°	176.8	1.4
80°-90°	123.4	1.0
90°-100°	99.5	0.8
100°-110°	93.9	0.8
110°-120°	69.8	0.6
120°-130°	49.8	0.4
130°-140°	37.4	0.3
140°-150°	26.8	0.2
150°-160°	17.2	0.1
160°-170°	8.6	0.1
170°-180°	2.3	0.0
0°-30°	4722.1	38.1
0°-40°	7745.3	62.4
0°-60°	11412.2	92.0
0°-90°	12002.7	96.7
90°-120°	263.2	2.1
90°-150°	377.2	3.0
90°-180°	405.0	3.3
0°-180°	12408.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5999	
5°	5978	569
15°	5811	1641
25°	5452	2512
35°	4854	3023
45°	3320	2524
55°	1262	1143
65°	262	290
75°	166	177
85°	113	98
90°	88	50
95°	91	75
105°	89	94
115°	70	70
125°	56	50
135°	48	37
145°	42	27
155°	37	17
165°	30	9
175°	24	2
180°	23	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	5998.9
2.5°	5994.2
5°	5978.2
7.5°	5958.4
10°	5927.4
12.5°	5878.5
15°	5810.8
17.5°	5736.4
20°	5652.7
22.5°	5558.6
25°	5452.3
27.5°	5327.2
30°	5190.8
32.5°	5050.7
35°	4854.1
37.5°	4633.9
40°	4361.1
42.5°	3872.9
45°	3319.8
47.5°	2714.9
50°	2138.2
52.5°	1666.0
55°	1261.5
57.5°	889.0
60°	545.6
62.5°	318.0
65°	261.5
67.5°	225.8
70°	198.5
72.5°	181.6
75°	166.5
77.5°	152.4
80°	139.2
82.5°	126.1
85°	112.9
87.5°	99.7
90°	88.4
92.5°	89.4
95°	91.2
97.5°	93.1
100°	94.1
102.5°	92.2
105°	89.4
107.5°	85.6
110°	80.9



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	75.3
115°	69.6
117.5°	64.9
120°	61.1
122.5°	57.4
125°	55.5
127.5°	52.7
130°	50.8
132.5°	49.9
135°	48.0
137.5°	47.0
140°	45.2
142.5°	44.2
145°	42.3
147.5°	41.4
150°	39.5
152.5°	38.6
155°	36.7
157.5°	35.7
160°	33.9
162.5°	32.0
165°	30.1
167.5°	28.2
170°	26.3
172.5°	23.5
175°	23.5
177.5°	23.5
180°	22.6

(END OF REPORT)