

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: P980643

Luminaire Tested: UHBS2-1218-W-L83065-LOW-6500K-FRR3

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980643
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-6500K-FRR3
Description: UHBS2 LED High Bay at 6500K and LOW lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

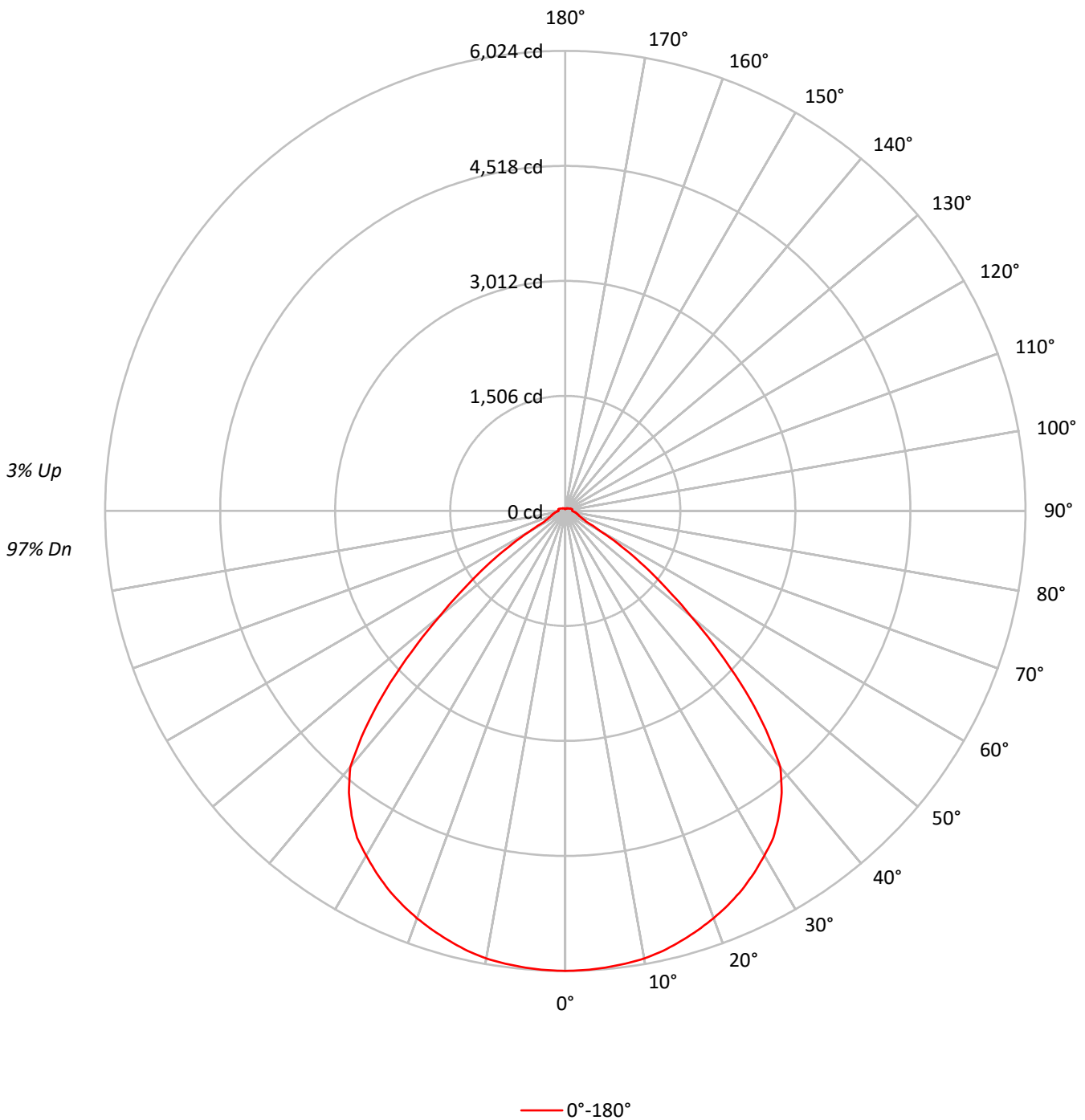
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12459.0 lumens
Efficiency: N/A
Efficacy: 155.0 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): 80.4
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			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	99	97
1	111	107	104	101	108	104	101	99	100	97	95	95	93	92	91	90	88	88	88	88	86
2	103	96	91	86	100	94	89	85	90	86	83	87	83	80	83	81	78	78	78	78	76
3	95	87	80	75	93	85	79	74	82	77	73	79	75	71	76	73	70	70	70	70	67
4	89	79	72	66	86	77	71	65	75	69	64	72	67	63	70	65	62	62	62	62	60
5	82	72	64	58	80	70	63	58	68	62	57	66	60	56	64	59	55	55	55	55	53
6	77	65	58	52	75	64	57	52	62	56	51	60	55	50	59	54	50	50	50	50	48
7	72	60	52	47	70	59	52	46	57	51	46	56	50	45	54	49	45	45	45	45	43
8	67	55	47	42	65	54	47	42	53	46	42	51	45	41	50	45	41	41	41	41	39
9	63	51	43	38	61	50	43	38	49	42	38	47	42	38	46	41	37	37	37	37	36
10	59	47	40	35	58	46	40	35	45	39	35	44	38	34	43	38	34	34	34	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	60720
5°	59326
10°	58125
15°	56740
20°	55385
25°	54018
30°	52410
35°	50354
40°	46884
45°	37330
50°	25405
55°	16017
60°	7500
65°	3951
70°	3357
75°	3226
80°	3185
85°	3180

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 37330 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	571.5	4.6
10°-20°	1647.9	13.2
20°-30°	2522.1	20.2
30°-40°	3035.6	24.4
40°-50°	2533.9	20.3
50°-60°	1148.1	9.2
60°-70°	291.6	2.3
70°-80°	177.5	1.4
80°-90°	123.8	1.0
90°-100°	99.9	0.8
100°-110°	94.2	0.8
110°-120°	70.1	0.6
120°-130°	50.0	0.4
130°-140°	37.6	0.3
140°-150°	26.9	0.2
150°-160°	17.2	0.1
160°-170°	8.7	0.1
170°-180°	2.3	0.0
0°-30°	4741.5	38.1
0°-40°	7777.1	62.4
0°-60°	11459.1	92.0
0°-90°	12052.0	96.7
90°-120°	264.3	2.1
90°-150°	378.7	3.0
90°-180°	407.0	3.3
0°-180°	12459.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6024	
5°	6003	571
15°	5835	1648
25°	5475	2522
35°	4874	3036
45°	3333	2534
55°	1267	1148
65°	263	292
75°	167	178
85°	113	98
90°	89	50
95°	92	75
105°	90	94
115°	70	70
125°	56	50
135°	48	38
145°	42	27
155°	37	17
165°	30	9
175°	24	2
180°	23	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	6023.5
2.5°	6018.8
5°	6002.8
7.5°	5982.9
10°	5951.8
12.5°	5902.6
15°	5834.6
17.5°	5760.0
20°	5675.9
22.5°	5581.5
25°	5474.8
27.5°	5349.1
30°	5212.2
32.5°	5071.4
35°	4874.0
37.5°	4653.0
40°	4379.0
42.5°	3888.8
45°	3333.4
47.5°	2726.0
50°	2147.0
52.5°	1672.8
55°	1266.7
57.5°	892.6
60°	547.9
62.5°	319.3
65°	262.6
67.5°	226.7
70°	199.3
72.5°	182.3
75°	167.2
77.5°	153.0
80°	139.8
82.5°	126.6
85°	113.3
87.5°	100.1
90°	88.8
92.5°	89.7
95°	91.6
97.5°	93.5
100°	94.5
102.5°	92.6
105°	89.7
107.5°	86.0
110°	81.2



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	75.6
115°	69.9
117.5°	65.2
120°	61.4
122.5°	57.6
125°	55.7
127.5°	52.9
130°	51.0
132.5°	50.1
135°	48.2
137.5°	47.2
140°	45.3
142.5°	44.4
145°	42.5
147.5°	41.6
150°	39.7
152.5°	38.7
155°	36.8
157.5°	35.9
160°	34.0
162.5°	32.1
165°	30.2
167.5°	28.3
170°	26.4
172.5°	23.6
175°	23.6
177.5°	23.6
180°	22.7

(END OF REPORT)