

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: P980544

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

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980544
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-344-5)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: UHBS2-1218-M-L83065-HIGH-3500K-FRR3
Description: UHBS2 LED High Bay at 3500K and HIGH lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

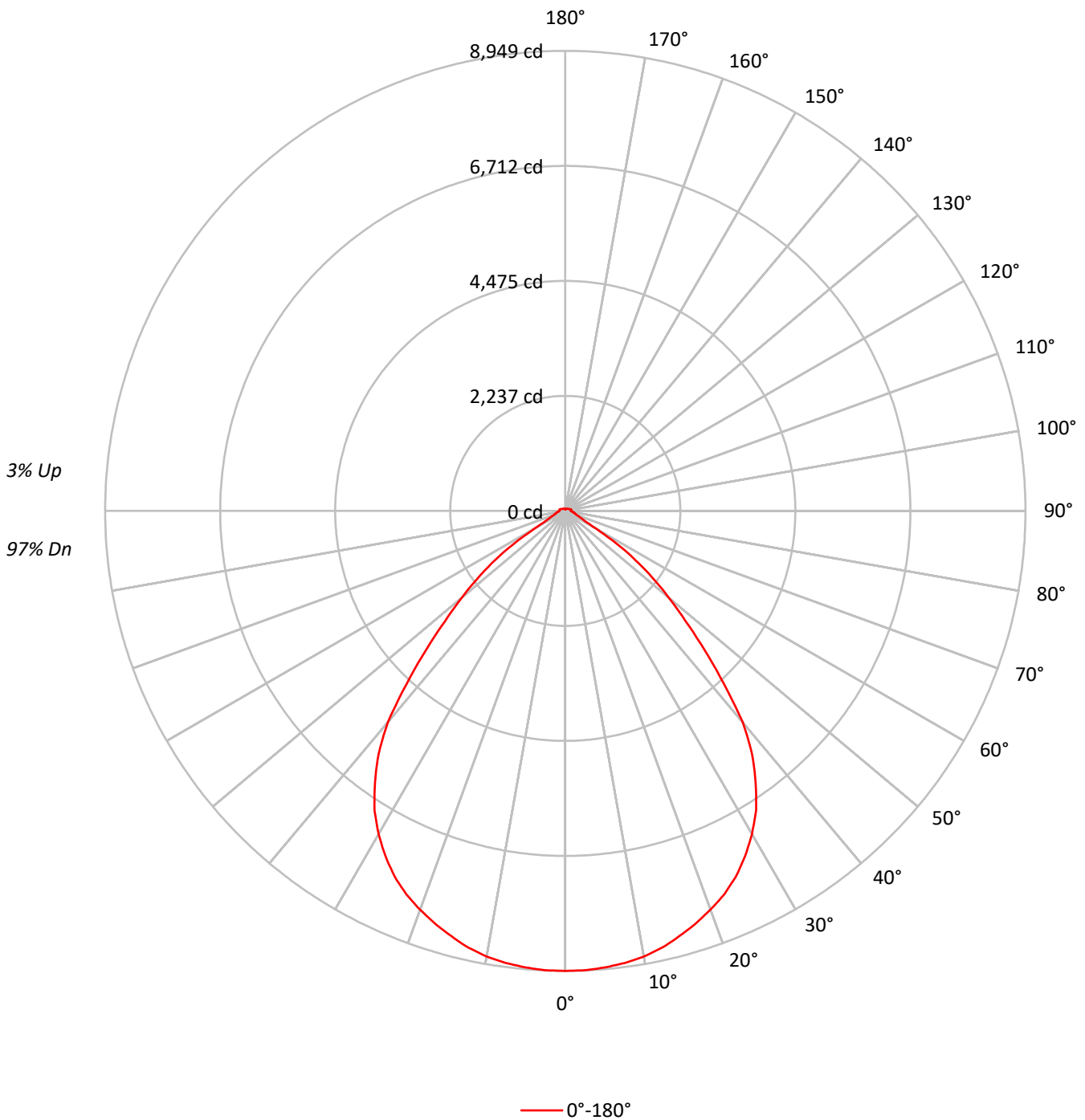
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16562.9 lumens
Efficiency: N/A
Efficacy: 137.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.22
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

TEST NUMBER: P980544
CATALOG NUMBER: UHBS2-1218-M-L83065-HIGH-3500K-FRR3

Luminous Intensity Polar Plot





TEST NUMBER: P980544

CATALOG NUMBER: UHBS2-1218-M-L83065-HIGH-3500K-FRR3

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	105	102	99	100	98	96	96	94	92	92	90	89	89	89	89	87
2	103	97	92	87	101	95	90	86	91	87	84	87	84	81	84	82	79	79	79	79	77
3	96	88	81	76	94	86	80	75	83	78	74	80	76	72	77	74	71	71	71	71	69
4	89	80	73	67	87	78	72	67	76	70	65	73	68	64	71	67	63	63	63	63	61
5	83	73	65	60	81	72	65	59	69	63	59	67	62	58	65	61	57	57	57	57	55
6	78	67	59	54	76	66	58	53	64	57	53	62	56	52	60	55	51	51	51	51	50
7	73	61	54	48	71	60	53	48	59	52	48	57	51	47	55	50	47	47	47	47	45
8	68	56	49	44	67	56	49	44	54	48	43	53	47	43	51	46	42	42	42	42	41
9	64	52	45	40	63	51	45	40	50	44	40	49	43	39	48	43	39	39	39	39	37
10	60	48	41	37	59	48	41	37	47	41	36	46	40	36	45	39	36	36	36	36	34

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	90213
5°	88087
10°	85960
15°	83286
20°	80557
25°	77454
30°	72986
35°	66690
40°	57498
45°	42842
50°	31085
55°	20987
60°	9334
65°	5285
70°	4067
75°	3737
80°	3706
85°	3770

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 42842 cd/sqm



TEST NUMBER: P980544

CATALOG NUMBER: UHBS2-1218-M-L83065-HIGH-3500K-FRR3

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	847.4	5.1
10°-20°	2416.8	14.6
20°-30°	3603.1	21.8
30°-40°	4004.1	24.2
40°-50°	2983.7	18.0
50°-60°	1470.6	8.9
60°-70°	378.8	2.3
70°-80°	208.2	1.3
80°-90°	147.3	0.9
90°-100°	125.2	0.8
100°-110°	118.1	0.7
110°-120°	85.1	0.5
120°-130°	60.5	0.4
130°-140°	45.4	0.3
140°-150°	33.0	0.2
150°-160°	21.4	0.1
160°-170°	11.0	0.1
170°-180°	3.0	0.0
0°-30°	6867.3	41.5
0°-40°	10871.4	65.6
0°-60°	15325.8	92.5
0°-90°	16060.2	97.0
90°-120°	328.4	2.0
90°-150°	467.4	2.8
90°-180°	503.0	3.0
0°-180°	16562.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8949	
5°	8913	847
15°	8564	2417
25°	7850	3603
35°	6455	4004
45°	3826	2984
55°	1660	1471
65°	351	379
75°	194	208
85°	134	116
90°	110	62
95°	115	95
105°	112	118
115°	85	85
125°	67	60
135°	58	45
145°	53	33
155°	46	21
165°	39	11
175°	30	3
180°	30	

TEST NUMBER: P980544

CATALOG NUMBER: UHBS2-1218-M-L83065-HIGH-3500K-FRR3

CANDELA DISTRIBUTION (FULL):

	0°
0°	8949.2
2.5°	8942.7
5°	8913.0
7.5°	8869.1
10°	8802.0
12.5°	8703.8
15°	8564.3
17.5°	8419.7
20°	8255.6
22.5°	8073.5
25°	7850.1
27.5°	7573.7
30°	7258.6
32.5°	6906.0
35°	6455.2
37.5°	5967.0
40°	5370.3
42.5°	4566.9
45°	3825.6
47.5°	3170.8
50°	2627.0
52.5°	2140.1
55°	1659.7
57.5°	1176.6
60°	681.9
62.5°	434.0
65°	351.3
67.5°	289.3
70°	241.5
72.5°	215.7
75°	193.7
77.5°	176.9
80°	162.7
82.5°	148.5
85°	134.3
87.5°	121.4
90°	109.8
92.5°	112.4
95°	114.9
97.5°	117.5
100°	118.8
102.5°	117.5
105°	112.4
107.5°	107.2
110°	99.4



TEST NUMBER: P980544
CATALOG NUMBER: UHBS2-1218-M-L83065-HIGH-3500K-FRR3

CANDELA DISTRIBUTION (continued):

	0°
112.5°	91.7
115°	85.2
117.5°	78.8
120°	73.6
122.5°	69.7
125°	67.2
127.5°	64.6
130°	62.0
132.5°	60.7
135°	58.1
137.5°	56.8
140°	55.5
142.5°	54.2
145°	53.0
147.5°	50.4
150°	49.1
152.5°	47.8
155°	46.5
157.5°	43.9
160°	42.6
162.5°	40.0
165°	38.7
167.5°	36.2
170°	33.6
172.5°	31.0
175°	29.7
177.5°	31.0
180°	29.7

(END OF REPORT)