

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: P980583

Luminaire Tested: UHBS2-1218-M-L83065-MID-6500K-FRR3

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980583
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-MID-6500K-FRR3
Description: UHBS2 LED High Bay at 6500K and MID lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

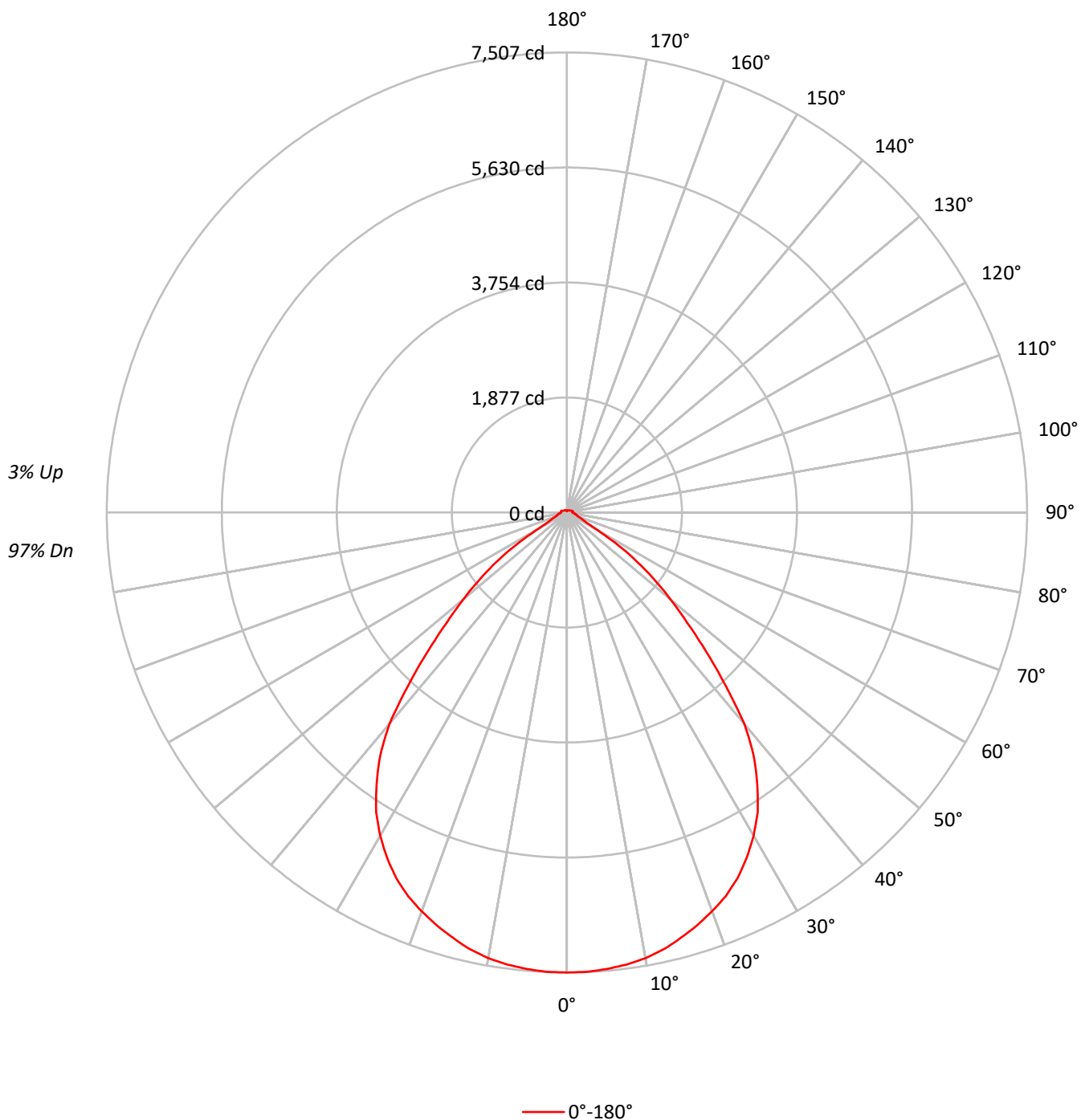
Lumens per Lamp: N/A
Luminaire Lumens: 13894.0 lumens
Efficiency: N/A
Efficacy: 140.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.22
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 0.25')
CIE Type: Direct

Input Watts (W): 98.7
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 7.15
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					0
RW	70	50	30	10	70	50	30	10	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	99	99	97
1	111	107	104	101	108	105	102	99	100	98	96	96	94	92	92	90	89	89	89	87
2	103	97	92	87	101	95	90	86	91	87	84	87	84	81	84	82	79	79	79	77
3	96	88	81	76	94	86	80	75	83	78	74	80	76	72	77	74	71	71	71	69
4	89	80	73	67	87	78	72	67	76	70	65	73	68	64	71	67	63	63	63	61
5	83	73	65	60	81	72	65	59	69	63	59	67	62	58	65	61	57	57	57	55
6	78	67	59	54	76	66	58	53	64	57	53	62	56	52	60	55	51	51	51	50
7	73	61	54	48	71	60	53	48	59	52	48	57	51	47	55	50	47	47	47	45
8	68	56	49	44	67	56	49	44	54	48	43	53	47	43	51	46	42	42	42	41
9	64	52	45	40	63	51	45	40	50	44	40	49	43	39	48	43	39	39	39	37
10	60	48	41	37	59	48	41	37	47	41	36	46	40	36	45	39	36	36	36	34

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	75676
5°	73893
10°	72108
15°	69865
20°	67576
25°	64973
30°	61225
35°	55944
40°	48232
45°	35938
50°	26076
55°	17604
60°	7831
65°	4434
70°	3412
75°	3135
80°	3110
85°	3164

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 35938 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	710.8	5.1
10°-20°	2027.4	14.6
20°-30°	3022.5	21.8
30°-40°	3358.9	24.2
40°-50°	2502.9	18.0
50°-60°	1233.6	8.9
60°-70°	317.8	2.3
70°-80°	174.7	1.3
80°-90°	123.6	0.9
90°-100°	105.1	0.8
100°-110°	99.1	0.7
110°-120°	71.4	0.5
120°-130°	50.7	0.4
130°-140°	38.1	0.3
140°-150°	27.7	0.2
150°-160°	17.9	0.1
160°-170°	9.2	0.1
170°-180°	2.5	0.0
0°-30°	5760.7	41.5
0°-40°	9119.6	65.6
0°-60°	12856.2	92.5
0°-90°	13472.2	97.0
90°-120°	275.5	2.0
90°-150°	392.1	2.8
90°-180°	422.0	3.0
0°-180°	13894.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7507	
5°	7477	711
15°	7184	2027
25°	6585	3023
35°	5415	3359
45°	3209	2503
55°	1392	1234
65°	295	318
75°	162	175
85°	113	97
90°	92	52
95°	96	80
105°	94	99
115°	72	71
125°	56	51
135°	49	38
145°	44	28
155°	39	18
165°	32	9
175°	25	2
180°	25	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	7507.1
2.5°	7501.7
5°	7476.8
7.5°	7439.9
10°	7383.6
12.5°	7301.3
15°	7184.2
17.5°	7062.9
20°	6925.3
22.5°	6772.5
25°	6585.1
27.5°	6353.3
30°	6088.9
32.5°	5793.1
35°	5415.0
37.5°	5005.5
40°	4504.9
42.5°	3831.0
45°	3209.1
47.5°	2659.8
50°	2203.7
52.5°	1795.2
55°	1392.2
57.5°	987.0
60°	572.1
62.5°	364.0
65°	294.7
67.5°	242.7
70°	202.6
72.5°	180.9
75°	162.5
77.5°	148.4
80°	136.5
82.5°	124.6
85°	112.7
87.5°	101.8
90°	92.1
92.5°	94.3
95°	96.4
97.5°	98.6
100°	99.7
102.5°	98.6
105°	94.3
107.5°	89.9
110°	83.4

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	76.9
115°	71.5
117.5°	66.1
120°	61.8
122.5°	58.5
125°	56.3
127.5°	54.2
130°	52.0
132.5°	50.9
135°	48.8
137.5°	47.7
140°	46.6
142.5°	45.5
145°	44.4
147.5°	42.3
150°	41.2
152.5°	40.1
155°	39.0
157.5°	36.8
160°	35.8
162.5°	33.6
165°	32.5
167.5°	30.3
170°	28.2
172.5°	26.0
175°	24.9
177.5°	26.0
180°	24.9

(END OF REPORT)