

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: P980604

Luminaire Tested: UHBS2-1218-N-L83065-LOW-6500K-FRR6

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980604
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-344-9)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: UHBS2-1218-N-L83065-LOW-6500K-FRR6
Description: UHBS2 LED High Bay at 6500K and LOW lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

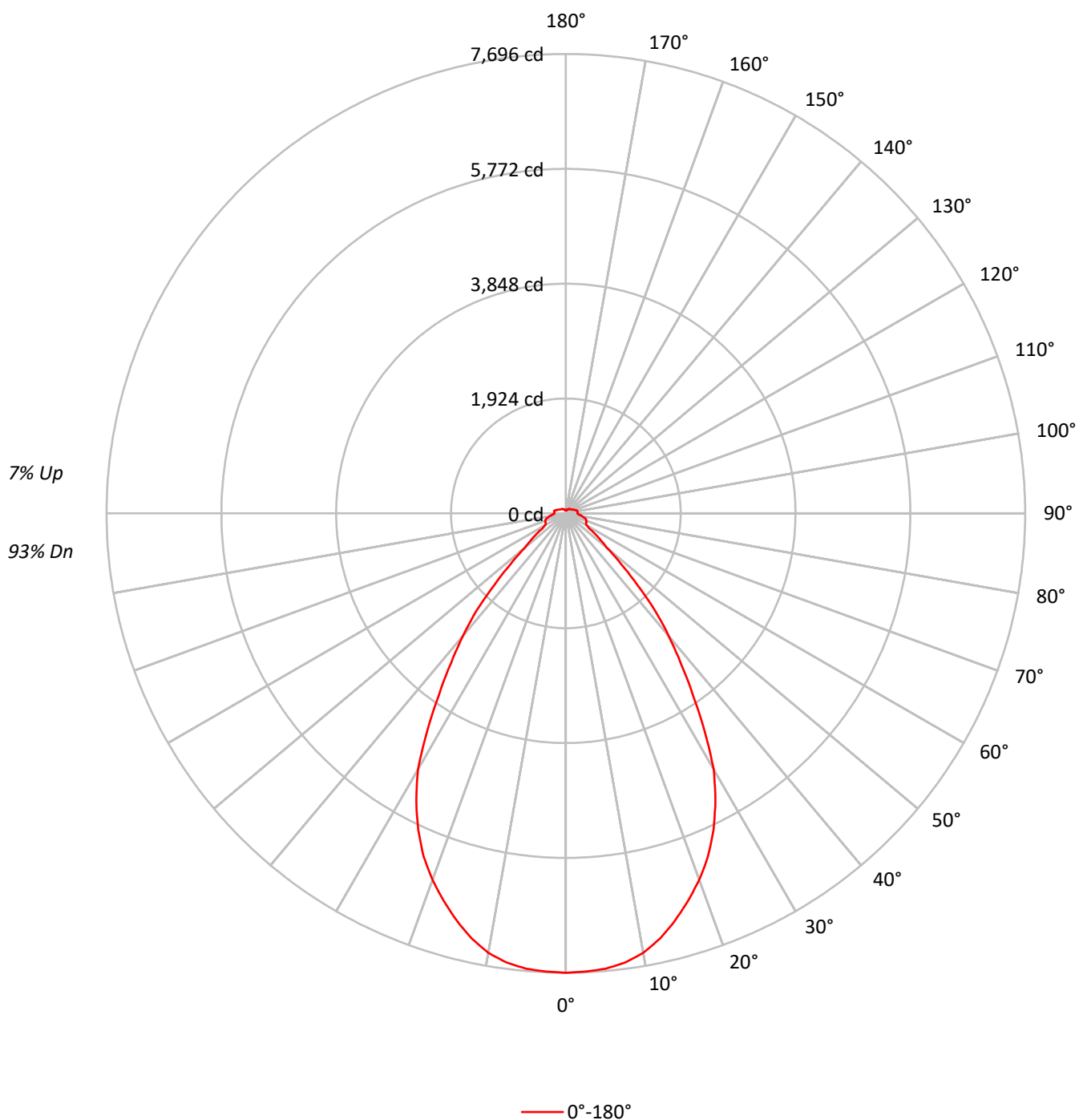
Lumens per Lamp: N/A
Luminaire Lumens: 11396.0 lumens
Efficiency: N/A
Efficacy: 141.7 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.01
Luminous Opening: Vertical Cylinder (Dia: 1.3' x H: 0.5')
CIE Type: Direct

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
RW	70	50	30	10		70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																					
0	117	117	117	117		114	114	114	114		107	107	107		101	101	101		95	95	95
1	109	105	102	99		106	102	99	97		97	94	92		92	90	88		87	86	84
2	102	95	90	85		99	93	88	84		88	84	81		84	81	78		80	78	75
3	95	87	80	75		92	85	79	74		81	76	72		77	73	70		74	71	68
4	89	79	72	67		86	78	71	66		74	69	65		71	67	63		69	65	62
5	83	73	66	60		81	71	65	60		69	63	58		66	61	57		64	59	56
6	78	67	60	55		76	66	59	54		64	58	53		61	56	52		59	55	51
7	73	62	55	50		71	61	54	50		59	53	49		57	52	48		55	51	47
8	69	58	51	46		67	57	50	46		55	49	45		53	48	44		52	47	44
9	65	54	47	42		64	53	47	42		52	46	42		50	45	41		49	44	40
10	62	50	44	39		60	50	43	39		48	43	39		47	42	38		46	41	38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	62318
5°	59676
10°	56580
15°	52343
20°	47784
25°	42570
30°	36106
35°	27297
40°	20095
45°	13008
50°	7179
55°	4923
60°	3540
65°	3473
70°	3723
75°	3723
80°	3389
85°	3114

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13008 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	725.2	6.4
10°-20°	1982.3	17.4
20°-30°	2668.2	23.4
30°-40°	2329.2	20.4
40°-50°	1328.5	11.7
50°-60°	543.2	4.8
60°-70°	374.6	3.3
70°-80°	349.2	3.1
80°-90°	246.0	2.2
90°-100°	214.1	1.9
100°-110°	196.1	1.7
110°-120°	143.8	1.3
120°-130°	104.1	0.9
130°-140°	77.9	0.7
140°-150°	55.4	0.5
150°-160°	35.4	0.3
160°-170°	17.8	0.2
170°-180°	4.7	0.0
0°-30°	5375.8	47.2
0°-40°	7705.0	67.6
0°-60°	9576.7	84.0
0°-90°	10546.6	92.5
90°-120°	554.1	4.9
90°-150°	791.5	6.9
90°-180°	849.0	7.4
0°-180°	11396.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7696	
5°	7656	725
15°	7063	1982
25°	5852	2668
35°	3708	2329
45°	1692	1328
55°	592	543
65°	372	375
75°	336	349
85°	221	192
90°	192	107
95°	196	161
105°	188	196
115°	144	144
125°	115	104
135°	100	78
145°	88	55
155°	76	35
165°	63	18
175°	49	5
180°	48	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	7696.4
2.5°	7684.0
5°	7656.4
7.5°	7591.6
10°	7475.4
12.5°	7294.4
15°	7062.9
17.5°	6805.7
20°	6533.2
22.5°	6222.7
25°	5852.1
27.5°	5426.2
30°	4952.8
32.5°	4323.1
35°	3707.7
37.5°	3161.8
40°	2681.7
42.5°	2220.6
45°	1691.9
47.5°	1257.5
50°	902.2
52.5°	737.3
55°	592.5
57.5°	459.2
60°	403.9
62.5°	380.1
65°	371.5
67.5°	372.5
70°	368.7
72.5°	357.2
75°	336.3
77.5°	306.8
80°	274.4
82.5°	245.8
85°	221.0
87.5°	202.0
90°	192.4
92.5°	194.3
95°	196.2
97.5°	199.1
100°	198.1
102.5°	194.3
105°	187.7
107.5°	177.2
110°	165.8



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	154.3
115°	143.8
117.5°	134.3
120°	126.7
122.5°	121.0
125°	115.3
127.5°	110.5
130°	106.7
132.5°	103.8
135°	100.0
137.5°	97.2
140°	94.3
142.5°	91.5
145°	87.6
147.5°	84.8
150°	81.9
152.5°	79.1
155°	76.2
157.5°	73.4
160°	69.5
162.5°	65.7
165°	62.9
167.5°	58.1
170°	53.3
172.5°	48.6
175°	48.6
177.5°	47.6
180°	47.6

(END OF REPORT)