

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: P980614

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

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980614
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-MID-6500K-FRR6
Description: UHBS2 LED High Bay at 6500K and MID lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

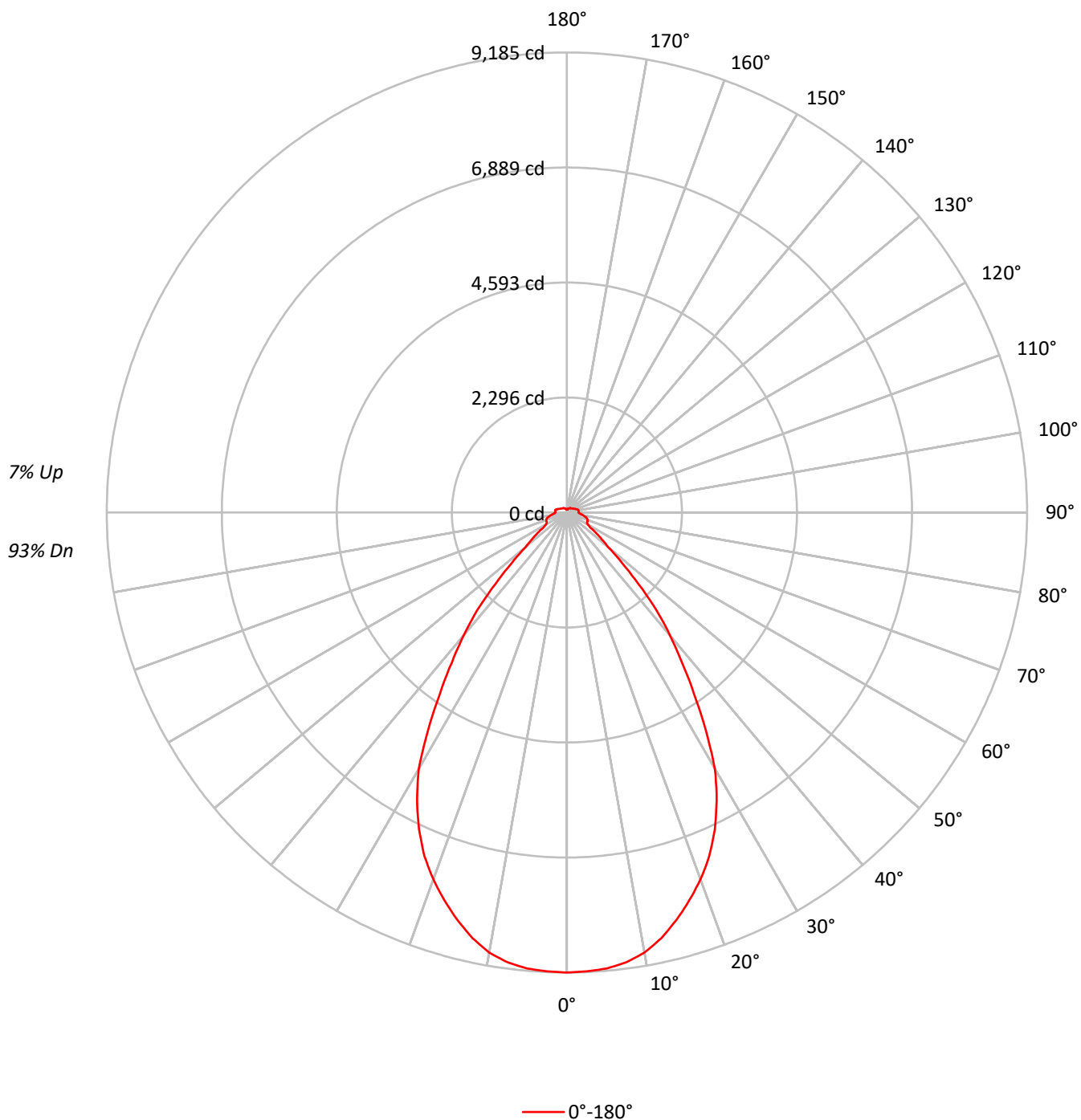
Lumens per Lamp: N/A
Luminaire Lumens: 13600.0 lumens
Efficiency: N/A
Efficacy: 137.8 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.01
Luminous Opening: Vertical Cylinder (Dia: 1.3' x H: 0.5')
CIE Type: Direct

Input Watts (W): 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				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°	74370
5°	71217
10°	67523
15°	62466
20°	57025
25°	50803
30°	43090
35°	32575
40°	23981
45°	15524
50°	8566
55°	5876
60°	4225
65°	4145
70°	4443
75°	4442
80°	4044
85°	3717

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 15524 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	865.5	6.4
10°-20°	2365.7	17.4
20°-30°	3184.3	23.4
30°-40°	2779.7	20.4
40°-50°	1585.4	11.7
50°-60°	648.3	4.8
60°-70°	447.1	3.3
70°-80°	416.7	3.1
80°-90°	293.5	2.2
90°-100°	255.5	1.9
100°-110°	234.1	1.7
110°-120°	171.7	1.3
120°-130°	124.3	0.9
130°-140°	92.9	0.7
140°-150°	66.2	0.5
150°-160°	42.2	0.3
160°-170°	21.3	0.2
170°-180°	5.6	0.0
0°-30°	6415.4	47.2
0°-40°	9195.1	67.6
0°-60°	11428.8	84.0
0°-90°	12586.2	92.5
90°-120°	661.3	4.9
90°-150°	944.7	6.9
90°-180°	1014.0	7.5
0°-180°	13600.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9185	
5°	9137	865
15°	8429	2366
25°	6984	3184
35°	4425	2780
45°	2019	1585
55°	707	648
65°	443	447
75°	401	417
85°	264	229
90°	230	128
95°	234	192
105°	224	234
115°	172	172
125°	138	124
135°	119	93
145°	105	66
155°	91	42
165°	75	21
175°	58	6
180°	57	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	9184.9
2.5°	9170.1
5°	9137.1
7.5°	9059.8
10°	8921.1
12.5°	8705.1
15°	8428.8
17.5°	8121.9
20°	7796.7
22.5°	7426.1
25°	6983.9
27.5°	6475.7
30°	5910.7
32.5°	5159.2
35°	4424.7
37.5°	3773.3
40°	3200.3
42.5°	2650.1
45°	2019.1
47.5°	1500.7
50°	1076.6
52.5°	879.9
55°	707.1
57.5°	548.0
60°	482.0
62.5°	453.6
65°	443.4
67.5°	444.5
70°	440.0
72.5°	426.3
75°	401.3
77.5°	366.1
80°	327.4
82.5°	293.3
85°	263.8
87.5°	241.0
90°	229.7
92.5°	231.9
95°	234.2
97.5°	237.6
100°	236.5
102.5°	231.9
105°	224.0
107.5°	211.5
110°	197.8



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	184.2
115°	171.7
117.5°	160.3
120°	151.2
122.5°	144.4
125°	137.6
127.5°	131.9
130°	127.3
132.5°	123.9
135°	119.4
137.5°	116.0
140°	112.6
142.5°	109.1
145°	104.6
147.5°	101.2
150°	97.8
152.5°	94.4
155°	91.0
157.5°	87.5
160°	83.0
162.5°	78.4
165°	75.0
167.5°	69.3
170°	63.7
172.5°	58.0
175°	58.0
177.5°	56.8
180°	56.8

(END OF REPORT)