

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: P980545

Luminaire Tested: UHBS2-1218-M-L83065-HIGH-3500K-FRR6

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980545
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-344-8)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: UHBS2-1218-M-L83065-HIGH-3500K-FRR6
Description: UHBS2 LED High Bay at 3500K and HIGH lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

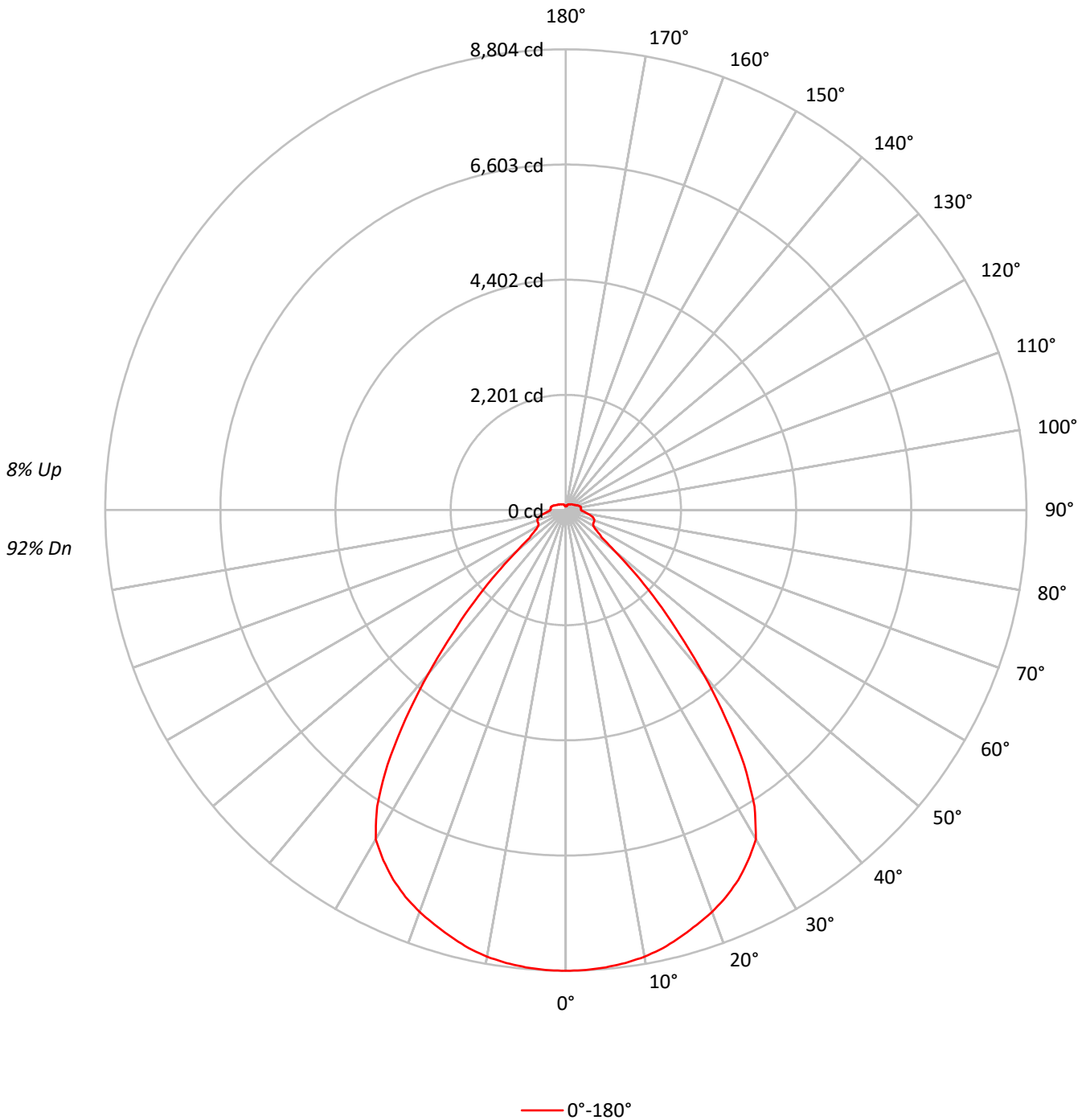
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15878.0 lumens
Efficiency: N/A
Efficacy: 131.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.13
Luminous Opening: Vertical Cylinder (Dia: 1.3' x H: 0.5')
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

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Luminous Intensity Polar Plot





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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	117	117	117	117	113	113	113	113	107	107	107	100	100	100	95	95	95	95	95	95	92
1	109	105	101	98	105	102	98	96	96	93	91	91	89	87	86	85	83	86	85	83	81
2	101	94	89	84	98	92	87	83	87	83	79	83	80	77	79	76	74	79	76	74	71
3	94	86	79	74	91	83	77	73	80	74	70	76	72	68	72	69	66	72	69	66	64
4	88	78	71	65	85	76	70	64	73	67	63	70	65	61	67	63	60	67	63	60	57
5	82	71	64	58	80	70	63	58	67	61	57	64	59	55	62	58	54	62	58	54	52
6	77	66	58	53	75	64	57	52	62	56	51	60	54	50	57	53	49	57	53	49	47
7	72	61	53	48	70	59	52	47	57	51	47	55	50	46	53	49	45	53	49	45	43
8	68	56	49	44	66	55	48	43	53	47	43	51	46	42	50	45	41	50	45	41	40
9	64	52	45	40	62	51	44	40	50	43	39	48	43	39	47	42	38	47	42	38	36
10	60	48	42	37	59	48	41	37	46	40	36	45	40	36	44	39	35	44	39	35	34

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	71287
5°	68375
10°	65614
15°	62634
20°	59781
25°	56726
30°	52971
35°	43763
40°	30642
45°	19024
50°	9632
55°	6300
60°	5327
65°	5447
70°	5857
75°	5931
80°	5432
85°	4861

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 19024 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	834.2	5.3
10°-20°	2385.3	15.0
20°-30°	3583.3	22.6
30°-40°	3628.7	22.9
40°-50°	1931.0	12.2
50°-60°	713.8	4.5
60°-70°	583.1	3.7
70°-80°	555.4	3.5
80°-90°	384.1	2.4
90°-100°	318.0	2.0
100°-110°	290.4	1.8
110°-120°	218.3	1.4
120°-130°	160.3	1.0
130°-140°	119.7	0.8
140°-150°	84.7	0.5
150°-160°	53.8	0.3
160°-170°	26.9	0.2
170°-180°	7.0	0.0
0°-30°	6802.8	42.8
0°-40°	10431.5	65.7
0°-60°	13076.3	82.4
0°-90°	14599.0	91.9
90°-120°	826.7	5.2
90°-150°	1191.4	7.5
90°-180°	1279.0	8.1
0°-180°	15878.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8804	
5°	8772	834
15°	8452	2385
25°	7798	3583
35°	5944	3629
45°	2474	1931
55°	758	714
65°	583	583
75°	536	555
85°	345	302
90°	291	162
95°	292	238
105°	277	290
115°	219	218
125°	177	160
135°	154	120
145°	134	85
155°	116	54
165°	94	27
175°	71	7
180°	70	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	8804.1
2.5°	8800.3
5°	8772.5
7.5°	8730.8
10°	8668.9
12.5°	8575.4
15°	8451.5
17.5°	8313.8
20°	8173.5
22.5°	8004.2
25°	7798.2
27.5°	7550.5
30°	7266.2
32.5°	6714.0
35°	5944.4
37.5°	5023.2
40°	4089.3
42.5°	3208.5
45°	2474.3
47.5°	1797.0
50°	1210.6
52.5°	873.2
55°	758.2
57.5°	662.2
60°	607.8
62.5°	590.1
65°	582.6
67.5°	583.8
70°	580.0
72.5°	566.1
75°	535.8
77.5°	490.3
80°	439.8
82.5°	389.2
85°	345.0
87.5°	309.6
90°	290.6
92.5°	289.4
95°	291.9
97.5°	293.2
100°	291.9
102.5°	286.9
105°	276.7
107.5°	264.1
110°	247.7



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	232.5
115°	218.6
117.5°	206.0
120°	194.6
122.5°	185.8
125°	176.9
127.5°	170.6
130°	165.5
132.5°	159.2
135°	154.2
137.5°	149.1
140°	144.1
142.5°	139.0
145°	134.0
147.5°	130.2
150°	125.1
152.5°	121.3
155°	116.3
157.5°	109.9
160°	104.9
162.5°	99.8
165°	93.5
167.5°	88.5
170°	79.6
172.5°	72.0
175°	70.8
177.5°	70.8
180°	69.5

(END OF REPORT)