

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: P980623

Luminaire Tested: UHBS2-1218-W-L83065-HIGH-4000K-FRR6

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980623
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-344-7)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: UHBS2-1218-W-L83065-HIGH-4000K-FRR6
Description: UHBS2 LED High Bay at 4000K and HIGH lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

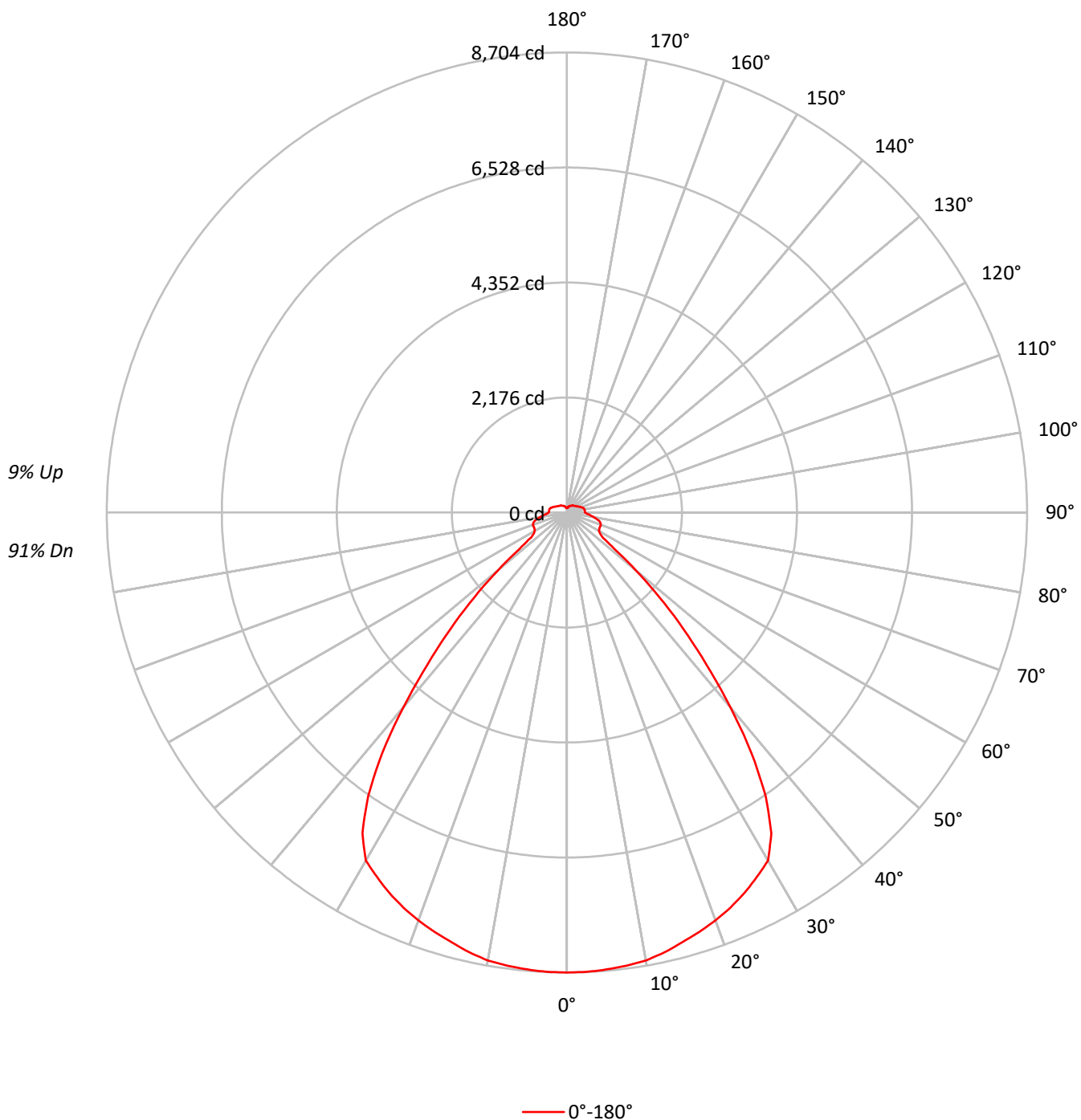
Lumens per Lamp: N/A
Luminaire Lumens: 17445.0 lumens
Efficiency: N/A
Efficacy: 146.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.18
Luminous Opening: Vertical Cylinder (Dia: 1.3' x H: 0.5')
CIE Type: Direct

Input Watts (W): 119.1
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
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	117	117	117	117	113	113	113	113	106	106	106		100	100	100		94
1	108	104	101	97	105	101	98	95	95	93	90		90	88	86		85
2	100	94	88	83	97	91	86	81	86	82	78		82	78	75		78
3	93	85	78	72	90	82	76	71	78	73	69		75	70	67		71
4	87	77	69	64	84	75	68	63	72	66	61		68	63	60		65
5	81	70	62	57	78	68	61	56	66	59	55		63	58	53		60
6	76	64	57	51	73	63	56	50	60	54	49		58	53	48		56
7	71	59	51	46	69	58	51	46	56	49	45		54	48	44		52
8	66	55	47	42	64	53	46	42	52	45	41		50	44	40		48
9	62	50	43	38	61	50	43	38	48	42	37		46	41	37		45
10	59	47	40	35	57	46	39	35	45	39	34		43	38	34		42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	70479
5°	67633
10°	65136
15°	62404
20°	60065
25°	57782
30°	55443
35°	48268
40°	36081
45°	23936
50°	13574
55°	6897
60°	6150
65°	6382
70°	6894
75°	7034
80°	6428
85°	5714

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 23936 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	826.1	4.7
10°-20°	2380.8	13.6
20°-30°	3662.0	21.0
30°-40°	4001.1	22.9
40°-50°	2417.1	13.9
50°-60°	868.3	5.0
60°-70°	681.6	3.9
70°-80°	657.2	3.8
80°-90°	452.7	2.6
90°-100°	369.5	2.1
100°-110°	338.2	1.9
110°-120°	256.8	1.5
120°-130°	189.2	1.1
130°-140°	141.3	0.8
140°-150°	99.7	0.6
150°-160°	63.4	0.4
160°-170°	31.7	0.2
170°-180°	8.2	0.0
0°-30°	6868.9	39.4
0°-40°	10870.0	62.3
0°-60°	14155.4	81.1
0°-90°	15946.9	91.4
90°-120°	964.6	5.5
90°-150°	1394.8	8.0
90°-180°	1498.0	8.6
0°-180°	17445.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8704	
5°	8677	826
15°	8420	2381
25°	7943	3662
35°	6556	4001
45°	3113	2417
55°	830	868
65°	683	682
75°	635	657
85°	406	356
90°	341	190
95°	338	276
105°	323	338
115°	257	257
125°	210	189
135°	182	141
145°	158	100
155°	136	63
165°	111	32
175°	84	8
180°	82	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	8704.3
2.5°	8698.9
5°	8677.3
7.5°	8648.9
10°	8605.7
12.5°	8524.6
15°	8420.5
17.5°	8321.8
20°	8212.3
22.5°	8089.3
25°	7943.3
27.5°	7777.0
30°	7605.3
32.5°	7197.1
35°	6556.3
37.5°	5734.4
40°	4815.2
42.5°	3901.3
45°	3113.2
47.5°	2377.8
50°	1706.0
52.5°	1126.1
55°	830.0
57.5°	746.2
60°	701.6
62.5°	688.1
65°	682.7
67.5°	684.0
70°	682.7
72.5°	667.8
75°	635.4
77.5°	582.6
80°	520.4
82.5°	459.6
85°	405.5
87.5°	365.0
90°	340.7
92.5°	338.0
95°	338.0
97.5°	339.3
100°	338.0
102.5°	332.5
105°	323.1
107.5°	308.2
110°	290.6

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	274.4
115°	256.8
117.5°	242.0
120°	229.8
122.5°	219.0
125°	209.5
127.5°	201.4
130°	194.7
132.5°	187.9
135°	182.5
137.5°	175.7
140°	170.3
142.5°	163.6
145°	158.2
147.5°	152.8
150°	147.3
152.5°	141.9
155°	136.5
157.5°	131.1
160°	124.4
162.5°	117.6
165°	110.8
167.5°	102.7
170°	94.6
172.5°	83.8
175°	83.8
177.5°	82.5
180°	82.5

(END OF REPORT)