

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: P980621

Luminaire Tested: UHBS2-1218-W-L83065-HIGH-4000K-CLR3

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980621
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-344-1)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: UHBS2-1218-W-L83065-HIGH-4000K-CLR3
Description: UHBS2 LED High Bay at 4000K and HIGH lumen setting 3in Deep Clear Refractor
Light Source: -
Ballast/Driver: -

Summary

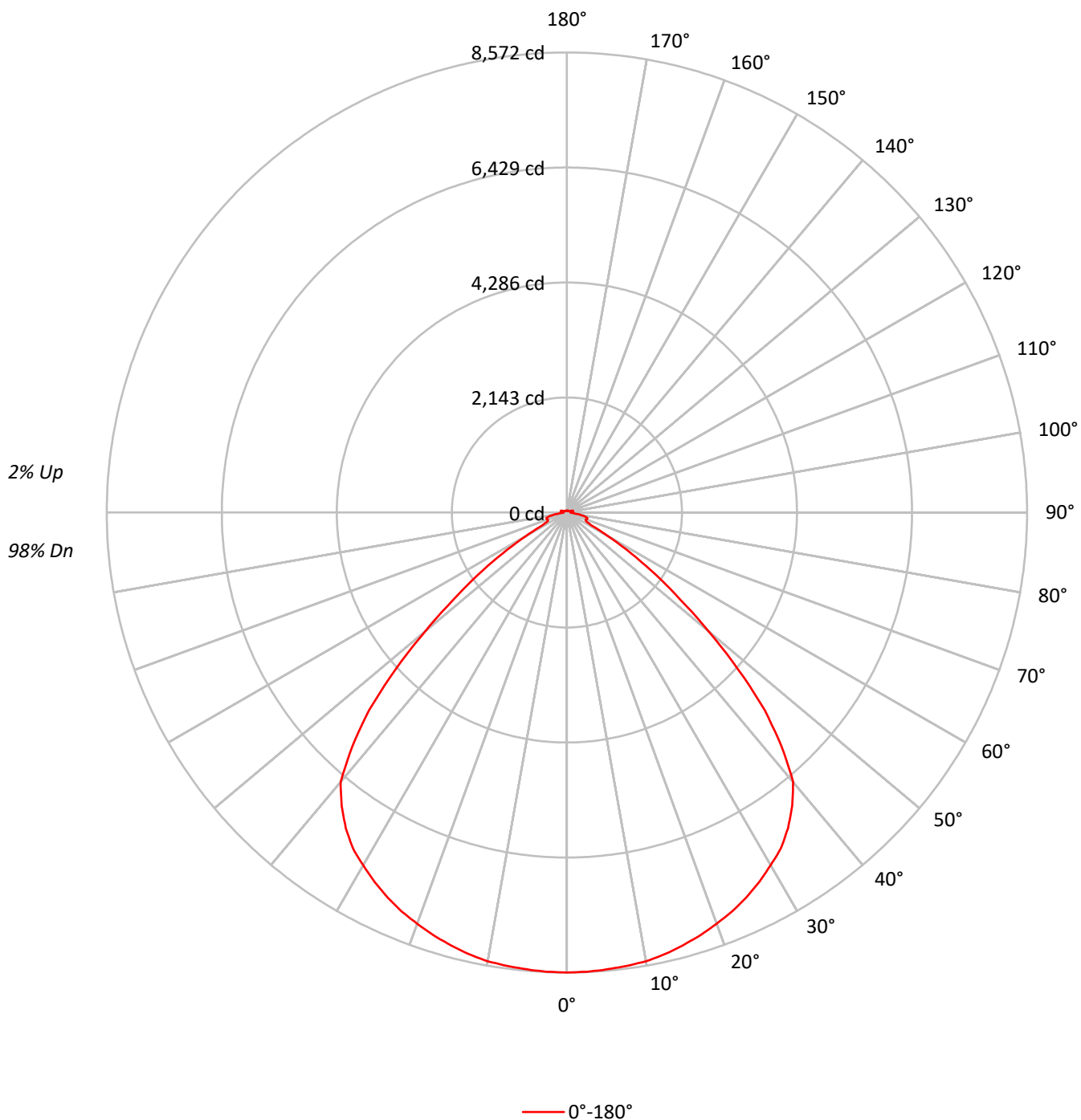
Lumens per Lamp: N/A
Luminaire Lumens: 18455.9 lumens
Efficiency: N/A
Efficacy: 155.0 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.31 / 1.34
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 0.25')
CIE Type: Direct

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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	110	110	110		105	105	105		100	100	100	98
1	111	107	104	101	108	105	102	99	100	98	95		96	94	92		92	90	89	87
2	103	96	91	86	100	94	89	85	90	86	83		87	84	81		84	81	79	77
3	95	87	80	75	93	85	79	74	82	77	72		79	75	71		76	73	69	67
4	88	78	71	65	86	77	70	65	74	68	64		72	67	63		70	65	62	60
5	82	71	63	58	80	70	63	57	68	61	57		66	60	56		64	59	55	53
6	76	65	57	51	74	64	56	51	62	55	50		60	54	50		58	53	49	47
7	71	59	51	46	69	58	51	46	57	50	45		55	49	45		54	48	44	43
8	67	54	47	41	65	54	46	41	52	46	41		51	45	41		50	44	40	39
9	62	50	43	38	61	49	42	37	48	42	37		47	41	37		46	41	37	35
10	58	46	39	34	57	46	39	34	45	38	34		44	38	34		43	37	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	86411
5°	84460
10°	82925
15°	81189
20°	79567
25°	78074
30°	76314
35°	74175
40°	70194
45°	58319
50°	40768
55°	25525
60°	12082
65°	6083
70°	6462
75°	7561
80°	5807
85°	2961

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 58319 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	814.0	4.4
10°-20°	2359.3	12.8
20°-30°	3647.5	19.8
30°-40°	4473.0	24.2
40°-50°	3928.5	21.3
50°-60°	1831.8	9.9
60°-70°	475.9	2.6
70°-80°	384.1	2.1
80°-90°	137.7	0.7
90°-100°	89.1	0.5
100°-110°	122.4	0.7
110°-120°	70.5	0.4
120°-130°	38.7	0.2
130°-140°	29.2	0.2
140°-150°	24.8	0.1
150°-160°	18.0	0.1
160°-170°	9.1	0.0
170°-180°	2.4	0.0
0°-30°	6820.8	37.0
0°-40°	11293.7	61.2
0°-60°	17054.0	92.4
0°-90°	18051.6	97.8
90°-120°	282.0	1.5
90°-150°	374.7	2.0
90°-180°	404.0	2.2
0°-180°	18455.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8572	
5°	8546	814
15°	8349	2359
25°	7913	3647
35°	7180	4473
45°	5208	3929
55°	2019	1832
65°	404	476
75°	392	384
85°	106	119
90°	63	37
95°	78	71
105°	122	122
115°	68	71
125°	42	39
135°	37	29
145°	40	25
155°	40	18
165°	32	9
175°	25	2
180°	25	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	8572.1
2.5°	8565.2
5°	8546.0
7.5°	8521.3
10°	8491.2
12.5°	8429.5
15°	8348.7
17.5°	8259.6
20°	8154.1
22.5°	8044.4
25°	7912.9
27.5°	7758.0
30°	7589.5
32.5°	7419.5
35°	7179.7
37.5°	6890.5
40°	6556.1
42.5°	5921.6
45°	5207.6
47.5°	4331.9
50°	3445.3
52.5°	2661.4
55°	2018.6
57.5°	1419.8
60°	882.6
62.5°	512.5
65°	404.3
67.5°	378.2
70°	383.7
72.5°	398.8
75°	391.9
77.5°	344.0
80°	254.9
82.5°	164.5
85°	105.5
87.5°	76.7
90°	63.0
92.5°	67.2
95°	78.1
97.5°	94.6
100°	111.0
102.5°	122.0
105°	122.0
107.5°	113.7
110°	98.7



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	82.2
115°	68.5
117.5°	57.6
120°	50.7
122.5°	45.2
125°	42.5
127.5°	39.7
130°	38.4
132.5°	37.0
135°	37.0
137.5°	38.4
140°	38.4
142.5°	39.7
145°	39.7
147.5°	39.7
150°	39.7
152.5°	39.7
155°	39.7
157.5°	38.4
160°	35.6
162.5°	34.3
165°	31.5
167.5°	30.1
170°	27.4
172.5°	24.7
175°	24.7
177.5°	24.7
180°	24.7

(END OF REPORT)