

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: P980543

Luminaire Tested: UHBS2-1218-M-L83065-HIGH-3500K-CLR3

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980543
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-344-2)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: UHBS2-1218-M-L83065-HIGH-3500K-CLR3
Description: UHBS2 LED High Bay at 3500K and HIGH lumen setting 3in Deep Clear Refractor
Light Source: -
Ballast/Driver: -

Summary

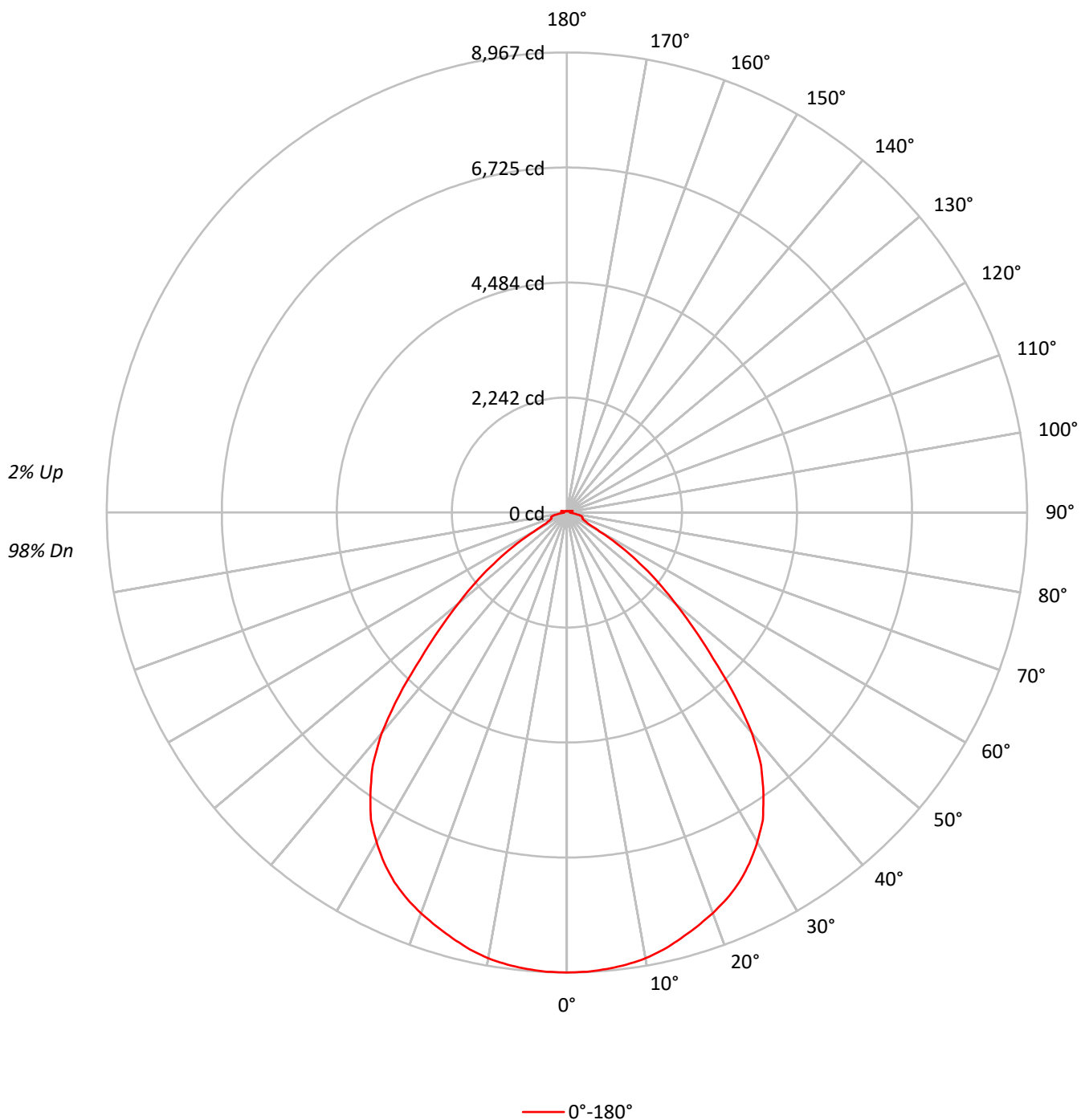
Lumens per Lamp: N/A
Luminaire Lumens: 16959.9 lumens
Efficiency: N/A
Efficacy: 140.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.24
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 0.25')
CIE Type: Direct

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			
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	96		96	94	93		92	91	90	88
2	103	97	92	87	101	95	90	86	91	87	84		88	85	82		85	82	80	78
3	96	88	81	76	94	86	80	75	83	78	74		80	76	72		77	74	71	69
4	89	80	72	67	87	78	72	66	76	70	65		73	68	64		71	67	63	61
5	83	73	65	59	81	71	64	59	69	63	58		67	62	58		65	61	57	55
6	78	66	59	53	76	65	58	53	63	57	52		62	56	52		60	55	51	49
7	73	61	53	48	71	60	53	48	58	52	47		57	51	47		55	50	46	45
8	68	56	49	44	66	55	48	43	54	48	43		53	47	43		51	46	42	41
9	64	52	45	40	62	51	44	40	50	44	39		49	43	39		48	43	39	37
10	60	48	41	36	59	48	41	36	47	40	36		45	40	36		45	39	36	34

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	90388
5°	88280
10°	86173
15°	83569
20°	81106
25°	78444
30°	74609
35°	68960
40°	60066
45°	45200
50°	32758
55°	22024
60°	10057
65°	5714
70°	5359
75°	5911
80°	4326
85°	2352

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 45200 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	849.3	5.0
10°-20°	2426.2	14.3
20°-30°	3652.9	21.5
30°-40°	4141.4	24.4
40°-50°	3150.4	18.6
50°-60°	1552.5	9.2
60°-70°	420.2	2.5
70°-80°	301.9	1.8
80°-90°	107.7	0.6
90°-100°	82.6	0.5
100°-110°	112.3	0.7
110°-120°	60.4	0.4
120°-130°	32.5	0.2
130°-140°	24.6	0.1
140°-150°	20.5	0.1
150°-160°	14.9	0.1
160°-170°	7.6	0.0
170°-180°	2.2	0.0
0°-30°	6928.3	40.9
0°-40°	11069.7	65.3
0°-60°	15772.6	93.0
0°-90°	16602.4	97.9
90°-120°	255.3	1.5
90°-150°	332.9	2.0
90°-180°	358.0	2.1
0°-180°	16959.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8967	
5°	8932	849
15°	8593	2426
25°	7950	3653
35°	6675	4141
45°	4036	3150
55°	1742	1553
65°	380	420
75°	306	302
85°	84	91
90°	56	33
95°	72	66
105°	113	112
115°	59	60
125°	35	33
135°	31	25
145°	33	21
155°	33	15
165°	26	8
175°	22	2
180°	22	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	8966.6
2.5°	8960.0
5°	8932.5
7.5°	8889.3
10°	8823.8
12.5°	8725.6
15°	8593.4
17.5°	8455.9
20°	8311.8
22.5°	8148.1
25°	7950.4
27.5°	7706.8
30°	7420.0
32.5°	7104.4
35°	6674.9
37.5°	6215.2
40°	5610.2
42.5°	4846.7
45°	4036.1
47.5°	3357.7
50°	2768.4
52.5°	2249.8
55°	1741.7
57.5°	1255.9
60°	734.7
62.5°	461.0
65°	379.8
67.5°	335.2
70°	318.2
72.5°	320.8
75°	306.4
77.5°	261.9
80°	189.9
82.5°	123.1
85°	83.8
87.5°	65.5
90°	56.3
92.5°	61.5
95°	72.0
97.5°	89.1
100°	104.8
102.5°	113.9
105°	112.6
107.5°	102.1
110°	86.4



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	70.7
115°	58.9
117.5°	48.5
120°	41.9
122.5°	38.0
125°	35.4
127.5°	34.0
130°	32.7
132.5°	31.4
135°	31.4
137.5°	31.4
140°	32.7
142.5°	32.7
145°	32.7
147.5°	32.7
150°	32.7
152.5°	32.7
155°	32.7
157.5°	31.4
160°	30.1
162.5°	27.5
165°	26.2
167.5°	24.9
170°	23.6
172.5°	22.3
175°	22.3
177.5°	22.3
180°	22.3

(END OF REPORT)