

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: P1175800

Luminaire Tested: UHBS2-1218-W-L83065-HIGH-5000K-CLR6

Issue Date: 8/26/2025

Test Information

Test Method: LM-79-2019
Report Number: P1175800
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2505-439-5)
Test Lab: INNOVATION CENTER
Issue Date: 8/26/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: UHBS2-1218-W-L83065-HIGH-5000K-CLR6
Description: UHBS2 LED High Bay at 5000K and HIGH lumen setting 6in Deep Clear Refractor
Light Source: -
Ballast/Driver: -

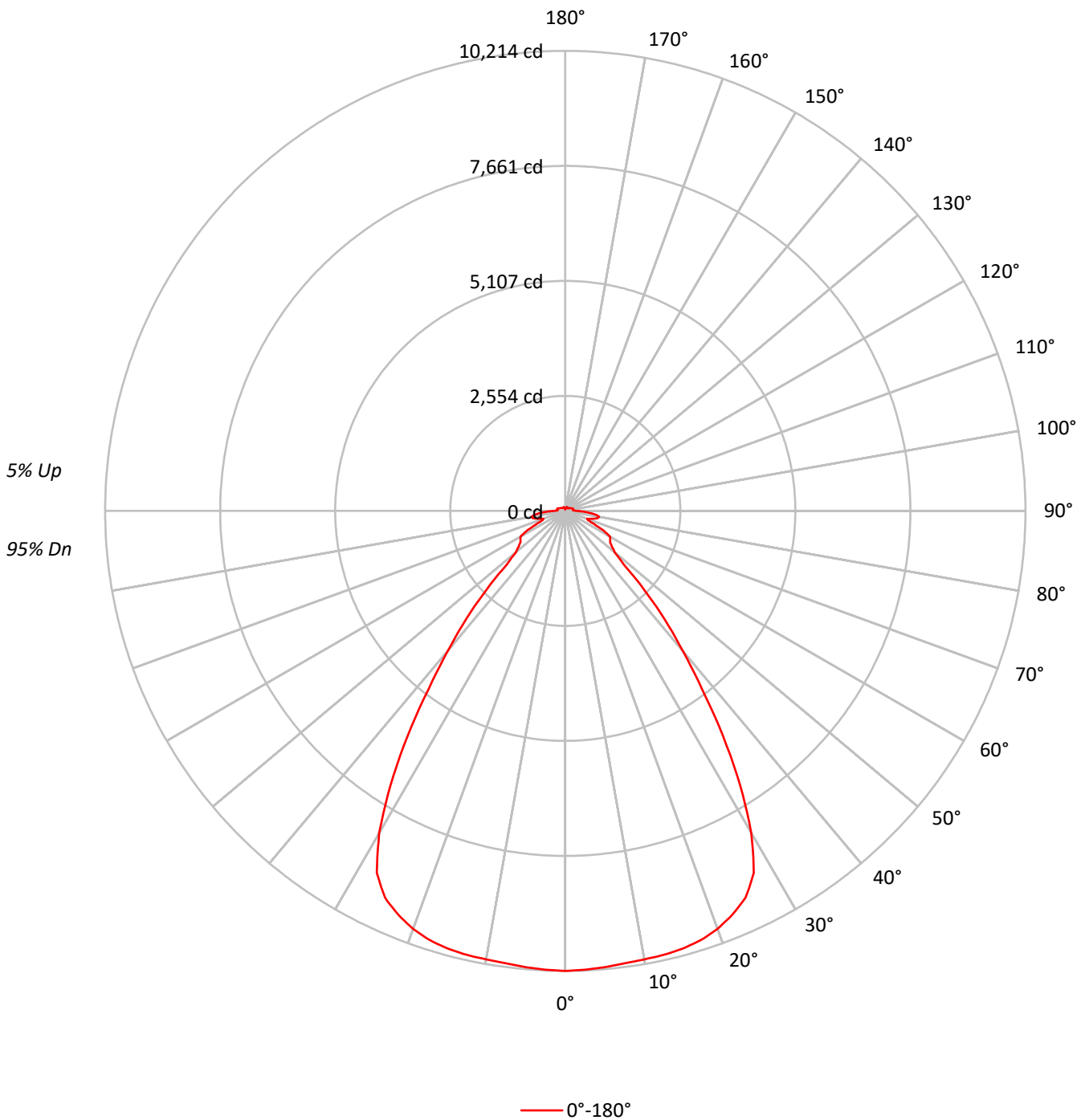
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17827.0 lumens
Efficiency: N/A
Efficacy: 149.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.08
Luminous Opening: Vertical Cylinder (Dia: 1.3' x H: 0.5')
CIE Type: Direct

Input Watts (W): 119.2
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	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	98	98	98	95
1	109	105	101	98	106	102	99	96	97	95	92	93	90	88	88	87	85	88	87	85	83
2	101	94	89	84	99	92	87	83	88	84	80	84	81	78	81	78	75	81	78	75	73
3	94	86	79	73	92	84	78	73	80	75	71	77	73	69	74	70	67	74	70	67	65
4	88	78	71	65	86	77	70	64	74	68	63	71	66	62	68	64	61	68	64	61	59
5	82	72	64	58	80	70	63	58	68	62	57	65	60	56	63	59	55	63	59	55	53
6	77	66	58	53	75	65	58	52	63	56	52	61	55	51	59	54	50	59	54	50	48
7	72	61	53	48	71	60	53	48	58	52	47	56	51	47	55	50	46	55	50	46	44
8	68	56	49	44	66	56	49	44	54	48	43	52	47	43	51	46	42	51	46	42	41
9	64	52	45	40	63	52	45	40	50	44	40	49	43	39	48	43	39	48	43	39	37
10	61	49	42	37	59	48	42	37	47	41	37	46	40	37	45	40	36	45	40	36	35

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	82701
5°	79245
10°	76523
15°	74581
20°	72250
25°	68918
30°	60220
35°	44911
40°	30342
45°	18999
50°	11409
55°	10097
60°	10062
65°	6791
70°	5199
75°	7363
80°	9387
85°	8037

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18999 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	968.5	5.4
10°-20°	2842.1	15.9
20°-30°	4296.8	24.1
30°-40°	3789.0	21.3
40°-50°	1948.7	10.9
50°-60°	1117.9	6.3
60°-70°	761.7	4.3
70°-80°	694.0	3.9
80°-90°	592.6	3.3
90°-100°	203.2	1.1
100°-110°	188.3	1.1
110°-120°	140.7	0.8
120°-130°	97.9	0.5
130°-140°	66.9	0.4
140°-150°	52.6	0.3
150°-160°	40.7	0.2
160°-170°	20.6	0.1
170°-180°	4.7	0.0
0°-30°	8107.4	45.5
0°-40°	11896.4	66.7
0°-60°	14963.0	83.9
0°-90°	17011.2	95.4
90°-120°	532.2	3.0
90°-150°	749.7	4.2
90°-180°	816.0	4.6
0°-180°	17827.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10214	
5°	10167	968
15°	10064	2842
25°	9474	4297
35°	6100	3789
45°	2471	1949
55°	1215	1118
65°	726	762
75°	665	694
85°	570	503
90°	252	150
95°	169	143
105°	182	188
115°	140	141
125°	109	98
135°	85	67
145°	83	53
155°	89	41
165°	72	21
175°	45	5
180°	38	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	10213.8
2.5°	10197.8
5°	10167.1
7.5°	10129.2
10°	10110.2
12.5°	10097.1
15°	10063.6
17.5°	9995.0
20°	9878.3
22.5°	9700.3
25°	9474.2
27.5°	9061.4
30°	8260.6
32.5°	7227.9
35°	6100.3
37.5°	4980.0
40°	4049.3
42.5°	3244.1
45°	2471.0
47.5°	1759.2
50°	1433.9
52.5°	1307.0
55°	1215.1
57.5°	1181.5
60°	1148.0
62.5°	980.2
65°	726.4
67.5°	549.9
70°	514.9
72.5°	574.7
75°	665.2
77.5°	742.5
80°	760.0
82.5°	700.2
85°	570.4
87.5°	398.2
90°	252.4
92.5°	188.2
95°	169.2
97.5°	172.1
100°	178.0
102.5°	183.8
105°	182.3
107.5°	175.0
110°	163.4



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	151.7
115°	140.0
117.5°	131.3
120°	122.5
122.5°	116.7
125°	109.4
127.5°	100.7
130°	94.8
132.5°	89.0
135°	84.6
137.5°	83.1
140°	81.7
142.5°	83.1
145°	83.1
147.5°	84.6
150°	87.5
152.5°	89.0
155°	89.0
157.5°	87.5
160°	84.6
162.5°	78.8
165°	71.5
167.5°	64.2
170°	56.9
172.5°	51.1
175°	45.2
177.5°	40.8
180°	37.9

(END OF REPORT)