

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: P1175849

Luminaire Tested: UHBS2-2436-W-L83065-LOW-5000K-CLR6

Issue Date: 8/26/2025

Test Information

Test Method: LM-79-2019
Report Number: P1175849
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: UHBS2-2436-W-L83065-LOW-5000K-CLR6
Description: UHBS2 LED High Bay at 5000K and LOW lumen setting 6in Deep Clear Refractor
Light Source: -
Ballast/Driver: -

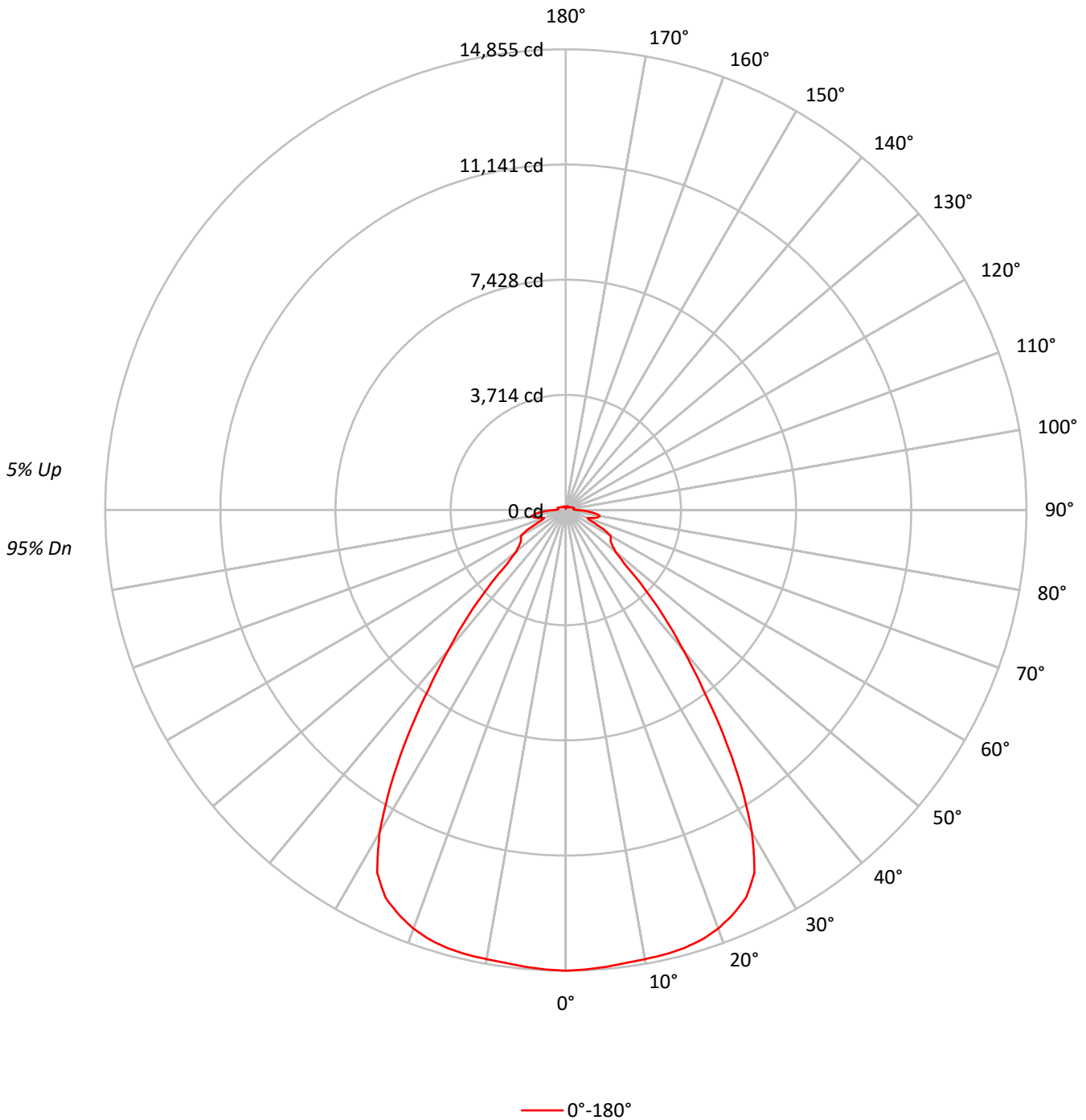
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25926.9 lumens
Efficiency: N/A
Efficacy: 168.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.08
Luminous Opening: Vertical Cylinder (Dia: 1.47' x H: 0.5')
CIE Type: Direct

Input Watts (W): 153.7
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 5.2
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°	93956
5°	90461
10°	87747
15°	85887
20°	83550
25°	80024
30°	70213
35°	52582
40°	35678
45°	22441
50°	13541
55°	12047
60°	12075
65°	8203
70°	6329
75°	9044
80°	11660
85°	10129

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 22441 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1408.5	5.4
10°-20°	4133.5	15.9
20°-30°	6249.2	24.1
30°-40°	5510.5	21.3
40°-50°	2834.2	10.9
50°-60°	1625.8	6.3
60°-70°	1107.8	4.3
70°-80°	1009.3	3.9
80°-90°	861.8	3.3
90°-100°	295.5	1.1
100°-110°	273.9	1.1
110°-120°	204.6	0.8
120°-130°	142.4	0.5
130°-140°	97.3	0.4
140°-150°	76.5	0.3
150°-160°	59.2	0.2
160°-170°	30.0	0.1
170°-180°	6.8	0.0
0°-30°	11791.2	45.5
0°-40°	17301.7	66.7
0°-60°	21761.7	83.9
0°-90°	24740.6	95.4
90°-120°	774.0	3.0
90°-150°	1090.3	4.2
90°-180°	1186.0	4.6
0°-180°	25926.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	14855	
5°	14787	###
15°	14636	4133
25°	13779	6249
35°	8872	5511
45°	3594	2834
55°	1767	1626
65°	1056	1108
75°	967	1009
85°	830	732
90°	367	217
95°	246	208
105°	265	274
115°	204	205
125°	159	142
135°	123	97
145°	121	77
155°	129	59
165°	104	30
175°	66	7
180°	55	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	14854.6
2.5°	14831.3
5°	14786.7
7.5°	14731.6
10°	14704.0
12.5°	14684.9
15°	14636.1
17.5°	14536.4
20°	14366.7
22.5°	14107.9
25°	13779.0
27.5°	13178.7
30°	12014.0
32.5°	10511.9
35°	8872.0
37.5°	7242.7
40°	5889.2
42.5°	4718.2
45°	3593.8
47.5°	2558.5
50°	2085.4
52.5°	1900.8
55°	1767.2
57.5°	1718.4
60°	1669.6
62.5°	1425.6
65°	1056.5
67.5°	799.8
70°	748.9
72.5°	835.9
75°	967.4
77.5°	1079.8
80°	1105.3
82.5°	1018.3
85°	829.5
87.5°	579.2
90°	367.0
92.5°	273.7
95°	246.1
97.5°	250.3
100°	258.8
102.5°	267.3
105°	265.2
107.5°	254.6
110°	237.6



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	220.6
115°	203.7
117.5°	190.9
120°	178.2
122.5°	169.7
125°	159.1
127.5°	146.4
130°	137.9
132.5°	129.4
135°	123.0
137.5°	120.9
140°	118.8
142.5°	120.9
145°	120.9
147.5°	123.0
150°	127.3
152.5°	129.4
155°	129.4
157.5°	127.3
160°	123.0
162.5°	114.6
165°	104.0
167.5°	93.3
170°	82.7
172.5°	74.3
175°	65.8
177.5°	59.4
180°	55.2

(END OF REPORT)