Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P980670

Luminaire Tested: UHBS2-2436-M-L83065-HIGH-5000K-FRR3

Issue Date: 4/4/2025

Test Information

Test Method:	LM-79-2019
Report Number:	P980670
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-344-5)
Test Lab:	INNOVATION CENTER
Issue Date:	4/4/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	UHBS2-2436-M-L83065-HIGH-5000K-FRR3
Description:	UHBS2 LED High Bay at 5000K and HIGH lumen setting 3in Deep Frosted Refractor
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	35746.0 lumens
Efficiency:	N/A
Efficacy:	153.1 lumens/watt
Spacing Criteria (0/90/45):	1.2 / 1.2 / 1.22
Luminous Opening:	Vertical Cylinder (Dia: 1.34' x H: 0.25')
CIE Type:	Direct
Input Watts (W):	233.5
Input Voltage (V):	
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.999
Total Harmonic Distortion (THDi):	5.15
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

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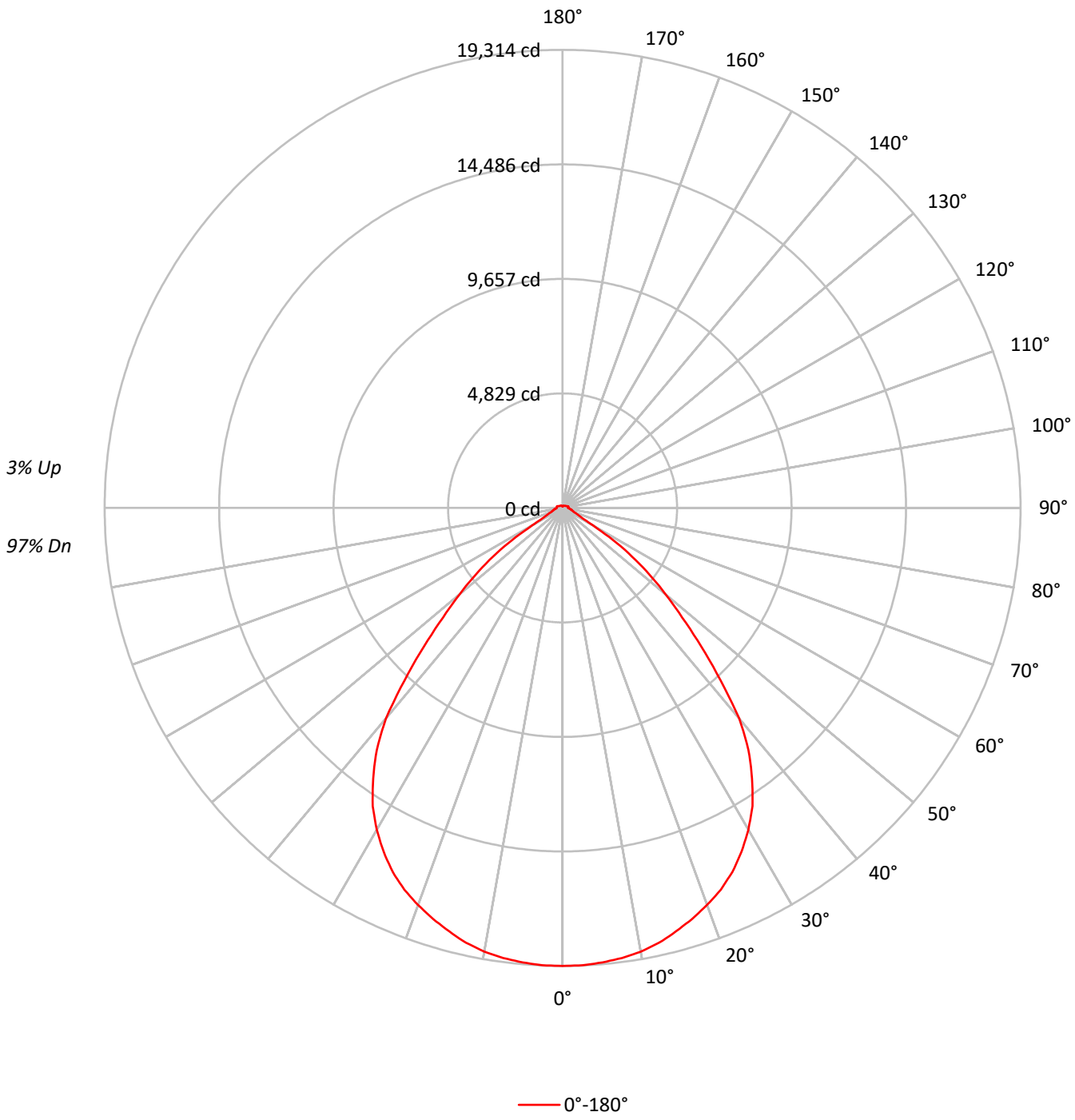
Luminous Intensity Polar Plot



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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	0
RCR																		
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	97
1	111	107	104	101	108	105	102	99	100	98	96	96	94	92	92	90	89	87
2	103	97	92	87	101	95	90	86	91	87	84	87	84	81	84	82	79	77
3	96	88	81	76	94	86	80	75	83	78	74	80	76	72	77	74	71	69
4	89	80	73	67	87	78	72	67	76	70	65	73	68	64	71	67	63	61
5	83	73	65	60	81	72	65	59	69	63	59	67	62	58	65	61	57	55
6	78	67	59	54	76	66	58	53	64	57	53	62	56	52	60	55	51	50
7	73	61	54	48	71	60	53	48	59	52	48	57	51	47	55	50	47	45
8	68	56	49	44	67	56	49	44	54	48	43	53	47	43	51	46	42	41
9	64	52	45	40	63	51	45	40	50	44	40	49	43	39	48	43	39	37
10	60	48	41	37	59	48	41	37	47	41	36	46	40	36	45	39	36	34

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	148078
5°	145022
10°	141931
15°	137911
20°	133777
25°	128998
30°	121925
35°	111761
40°	96684
45°	72305
50°	52678
55°	35729
60°	15979
65°	9106
70°	7063
75°	6558
80°	6598
85°	6853

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 72305 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1828.8	5.1
10°-20°	5215.9	14.6
20°-30°	7776.2	21.8
30°-40°	8641.6	24.2
40°-50°	6439.5	18.0
50°-60°	3173.9	8.9
60°-70°	817.6	2.3
70°-80°	449.4	1.3
80°-90°	318.0	0.9
90°-100°	270.3	0.8
100°-110°	254.9	0.7
110°-120°	183.7	0.5
120°-130°	130.6	0.4
130°-140°	98.1	0.3
140°-150°	71.3	0.2
150°-160°	46.2	0.1
160°-170°	23.7	0.1
170°-180°	6.4	0.0
0°-30°	14820.9	41.5
0°-40°	23462.6	65.6
0°-60°	33075.9	92.5
0°-90°	34660.9	97.0
90°-120°	708.8	2.0
90°-150°	1008.8	2.8
90°-180°	1085.0	3.0
0°-180°	35746.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	19314	
5°	19236	###
15°	18483	5216
25°	16942	7776
35°	13932	8642
45°	8256	6439
55°	3582	3174
65°	758	818
75°	418	449
85°	290	250
90°	237	134
95°	248	205
105°	242	255
115°	184	184
125°	145	131
135°	125	98
145°	114	71
155°	100	46
165°	84	24
175°	64	6
180°	64	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	19314.0
2.5°	19300.1
5°	19236.0
7.5°	19141.2
10°	18996.3
12.5°	18784.4
15°	18483.4
17.5°	18171.2
20°	17817.2
22.5°	17424.2
25°	16941.9
27.5°	16345.4
30°	15665.3
32.5°	14904.3
35°	13931.5
37.5°	12877.9
40°	11590.1
42.5°	9856.3
45°	8256.3
47.5°	6843.1
50°	5669.6
52.5°	4618.8
55°	3581.8
57.5°	2539.3
60°	1471.8
62.5°	936.6
65°	758.2
67.5°	624.4
70°	521.2
72.5°	465.5
75°	418.1
77.5°	381.9
80°	351.2
82.5°	320.6
85°	289.9
87.5°	262.0
90°	236.9
92.5°	242.5
95°	248.1
97.5°	253.7
100°	256.4
102.5°	253.7
105°	242.5
107.5°	231.4
110°	214.6

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	*197.9*
115°	*184.0*
117.5°	*170.0*
120°	*158.9*
122.5°	*150.5*
125°	*144.9*
127.5°	*139.4*
130°	*133.8*
132.5°	*131.0*
135°	*125.4*
137.5°	*122.6*
140°	*119.9*
142.5°	*117.1*
145°	*114.3*
147.5°	*108.7*
150°	*105.9*
152.5°	*103.1*
155°	*100.3*
157.5°	*94.8*
160°	*92.0*
162.5°	*86.4*
165°	*83.6*
167.5°	*78.0*
170°	*72.5*
172.5°	*66.9*
175°	*64.1*
177.5°	*66.9*
180°	*64.1*

(END OF REPORT)