

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: P980727

Luminaire Tested: UHBS2-2436-N-L83065-MID-3500K-CLR3

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980727
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-344-3)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: UHBS2-2436-N-L83065-MID-3500K-CLR3
Description: UHBS2 LED High Bay at 3500K and MID lumen setting 3in Deep Clear Refractor
Light Source: -
Ballast/Driver: -

Summary

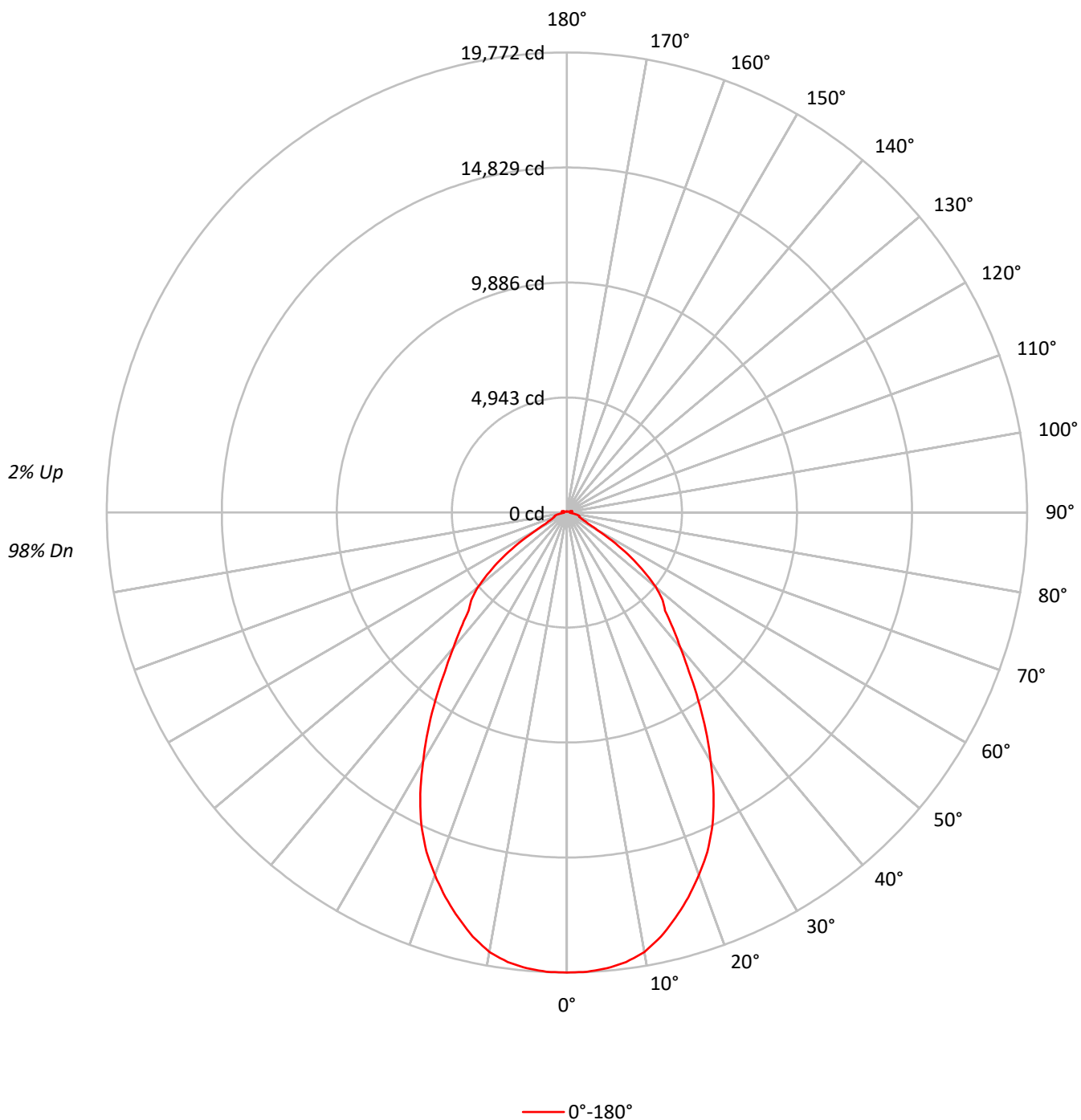
Lumens per Lamp: N/A
Luminaire Lumens: 29747.0 lumens
Efficiency: N/A
Efficacy: 154.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.03
Luminous Opening: Vertical Cylinder (Dia: 1.34' x H: 0.25')
CIE Type: Direct

Input Watts (W): 192.4
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 5.15
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P980727

CATALOG NUMBER: UHBS2-2436-N-L83065-MID-3500K-CLR3

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			
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	115	115	115	115	110	110	110	105	105	105	100	100	100	98		
1	111	107	104	101	108	105	102	100	101	98	96	96	94	93	93	91	90	88		
2	104	97	92	88	101	95	91	87	92	88	84	88	85	82	85	82	80	78		
3	97	88	82	77	94	87	81	76	84	79	74	81	76	73	78	75	72	70		
4	90	80	73	68	88	79	73	67	76	71	66	74	69	65	72	68	64	62		
5	84	74	66	61	82	72	66	60	70	64	60	68	63	59	66	62	58	56		
6	79	68	60	55	77	67	60	55	65	59	54	63	58	53	61	57	53	51		
7	74	62	55	50	72	61	54	50	60	54	49	58	53	49	57	52	48	46		
8	69	58	50	45	68	57	50	45	56	49	45	54	49	45	53	48	44	43		
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	44	41	39		
10	62	50	43	39	60	49	43	38	48	42	38	47	42	38	46	41	38	36		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	151593
5°	148241
10°	143290
15°	134537
20°	124522
25°	112723
30°	96232
35°	78909
40°	63222
45°	52231
50°	46409
55°	33694
60°	16472
65°	9622
70°	7921
75°	8213
80°	5948
85°	3570

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 52231 cd/sqm

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CATALOG NUMBER: UHBS2-2436-N-L83065-MID-3500K-CLR3

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1862.1	6.3
10°-20°	5059.7	17.0
20°-30°	6736.0	22.6
30°-40°	6148.4	20.7
40°-50°	4731.5	15.9
50°-60°	2948.9	9.9
60°-70°	870.6	2.9
70°-80°	522.0	1.8
80°-90°	190.4	0.6
90°-100°	168.6	0.6
100°-110°	219.9	0.7
110°-120°	108.7	0.4
120°-130°	57.5	0.2
130°-140°	43.6	0.1
140°-150°	35.2	0.1
150°-160°	25.5	0.1
160°-170°	14.2	0.0
170°-180°	4.3	0.0
0°-30°	13657.8	45.9
0°-40°	19806.2	66.6
0°-60°	27486.6	92.4
0°-90°	29069.6	97.7
90°-120°	497.2	1.7
90°-150°	633.4	2.1
90°-180°	677.0	2.3
0°-180°	29747.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	19772	
5°	19663	###
15°	18031	5060
25°	14804	6736
35°	9836	6148
45°	5964	4731
55°	3378	2949
65°	801	871
75°	524	522
85°	151	158
90°	112	64
95°	149	136
105°	219	220
115°	105	109
125°	63	57
135°	56	44
145°	56	35
155°	56	26
165°	49	14
175°	44	4
180°	46	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	19772.5
2.5°	19757.9
5°	19662.9
7.5°	19490.0
10°	19178.3
12.5°	18676.6
15°	18031.2
17.5°	17342.0
20°	16584.6
22.5°	15781.0
25°	14804.4
27.5°	13647.6
30°	12364.2
32.5°	11112.4
35°	9836.3
37.5°	8608.9
40°	7578.8
42.5°	6743.4
45°	5964.1
47.5°	5579.4
50°	4994.9
52.5°	4181.5
55°	3377.8
57.5°	2464.6
60°	1517.2
62.5°	1018.0
65°	801.2
67.5°	660.0
70°	584.5
72.5°	560.1
75°	523.6
77.5°	443.2
80°	316.6
82.5°	211.9
85°	151.0
87.5°	121.8
90°	112.0
92.5°	124.2
95°	148.6
97.5°	182.7
100°	214.3
102.5°	228.9
105°	219.2
107.5°	194.8
110°	160.7



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	129.1
115°	104.7
117.5°	85.2
120°	73.1
122.5°	65.8
125°	63.3
127.5°	60.9
130°	58.4
132.5°	56.0
135°	56.0
137.5°	56.0
140°	56.0
142.5°	56.0
145°	56.0
147.5°	56.0
150°	56.0
152.5°	56.0
155°	56.0
157.5°	53.6
160°	53.6
162.5°	51.1
165°	48.7
167.5°	48.7
170°	46.3
172.5°	43.8
175°	43.8
177.5°	46.3
180°	46.3

(END OF REPORT)