

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: P980729

Luminaire Tested: UHBS2-2436-N-L83065-MID-4000K-CLR3

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980729
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-4000K-CLR3
Description: UHBS2 LED High Bay at 4000K and MID lumen setting 3in Deep Clear Refractor
Light Source: -
Ballast/Driver: -

Summary

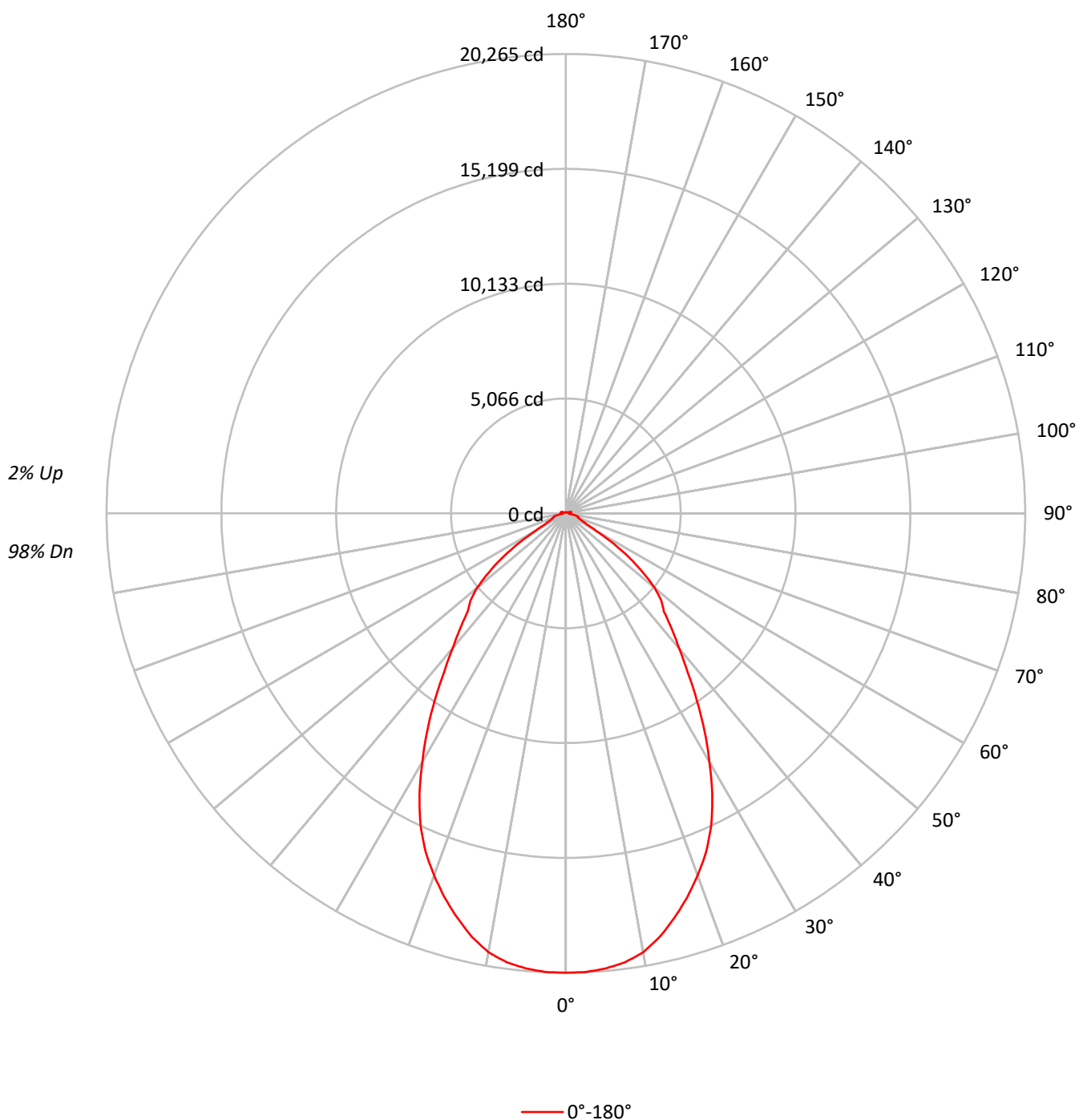
Lumens per Lamp: N/A
Luminaire Lumens: 30488.0 lumens
Efficiency: N/A
Efficacy: 160.5 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.03
Luminous Opening: Vertical Cylinder (Dia: 1.34' x H: 0.25')
CIE Type: Direct

Input Watts (W): 190
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

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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	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°	155369
5°	151933
10°	146860
15°	137889
20°	127624
25°	115531
30°	98629
35°	80874
40°	64796
45°	53533
50°	47565
55°	34533
60°	16882
65°	9862
70°	8118
75°	8417
80°	6096
85°	3659

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 53533 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1908.5	6.3
10°-20°	5185.7	17.0
20°-30°	6903.8	22.6
30°-40°	6301.5	20.7
40°-50°	4849.3	15.9
50°-60°	3022.4	9.9
60°-70°	892.3	2.9
70°-80°	535.0	1.8
80°-90°	195.1	0.6
90°-100°	172.8	0.6
100°-110°	225.3	0.7
110°-120°	111.4	0.4
120°-130°	58.9	0.2
130°-140°	44.7	0.1
140°-150°	36.1	0.1
150°-160°	26.2	0.1
160°-170°	14.5	0.0
170°-180°	4.4	0.0
0°-30°	13998.0	45.9
0°-40°	20299.5	66.6
0°-60°	28171.2	92.4
0°-90°	29793.7	97.7
90°-120°	509.6	1.7
90°-150°	649.2	2.1
90°-180°	694.0	2.3
0°-180°	30488.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	20265	
5°	20153	###
15°	18480	5186
25°	15173	6904
35°	10081	6302
45°	6113	4849
55°	3462	3022
65°	821	892
75°	537	535
85°	155	162
90°	115	66
95°	152	140
105°	225	225
115°	107	111
125°	65	59
135°	57	45
145°	57	36
155°	57	26
165°	50	15
175°	45	4
180°	47	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	20265.0
2.5°	20250.0
5°	20152.7
7.5°	19975.5
10°	19656.0
12.5°	19141.8
15°	18480.4
17.5°	17774.0
20°	16997.7
22.5°	16174.1
25°	15173.2
27.5°	13987.6
30°	12672.2
32.5°	11389.2
35°	10081.3
37.5°	8823.4
40°	7767.5
42.5°	6911.4
45°	6112.7
47.5°	5718.3
50°	5119.3
52.5°	4285.6
55°	3461.9
57.5°	2526.0
60°	1555.0
62.5°	1043.3
65°	821.2
67.5°	676.4
70°	599.0
72.5°	574.1
75°	536.6
77.5°	454.3
80°	324.5
82.5°	217.2
85°	154.8
87.5°	124.8
90°	114.8
92.5°	127.3
95°	152.3
97.5°	187.2
100°	219.6
102.5°	234.6
105°	224.6
107.5°	199.7
110°	164.7



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	132.3
115°	107.3
117.5°	87.4
120°	74.9
122.5°	67.4
125°	64.9
127.5°	62.4
130°	59.9
132.5°	57.4
135°	57.4
137.5°	57.4
140°	57.4
142.5°	57.4
145°	57.4
147.5°	57.4
150°	57.4
152.5°	57.4
155°	57.4
157.5°	54.9
160°	54.9
162.5°	52.4
165°	49.9
167.5°	49.9
170°	47.4
172.5°	44.9
175°	44.9
177.5°	47.4
180°	47.4

(END OF REPORT)