

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: P980700

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

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980700
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-MID-5000K-FRR3
Description: UHBS2 LED High Bay at 5000K and MID lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

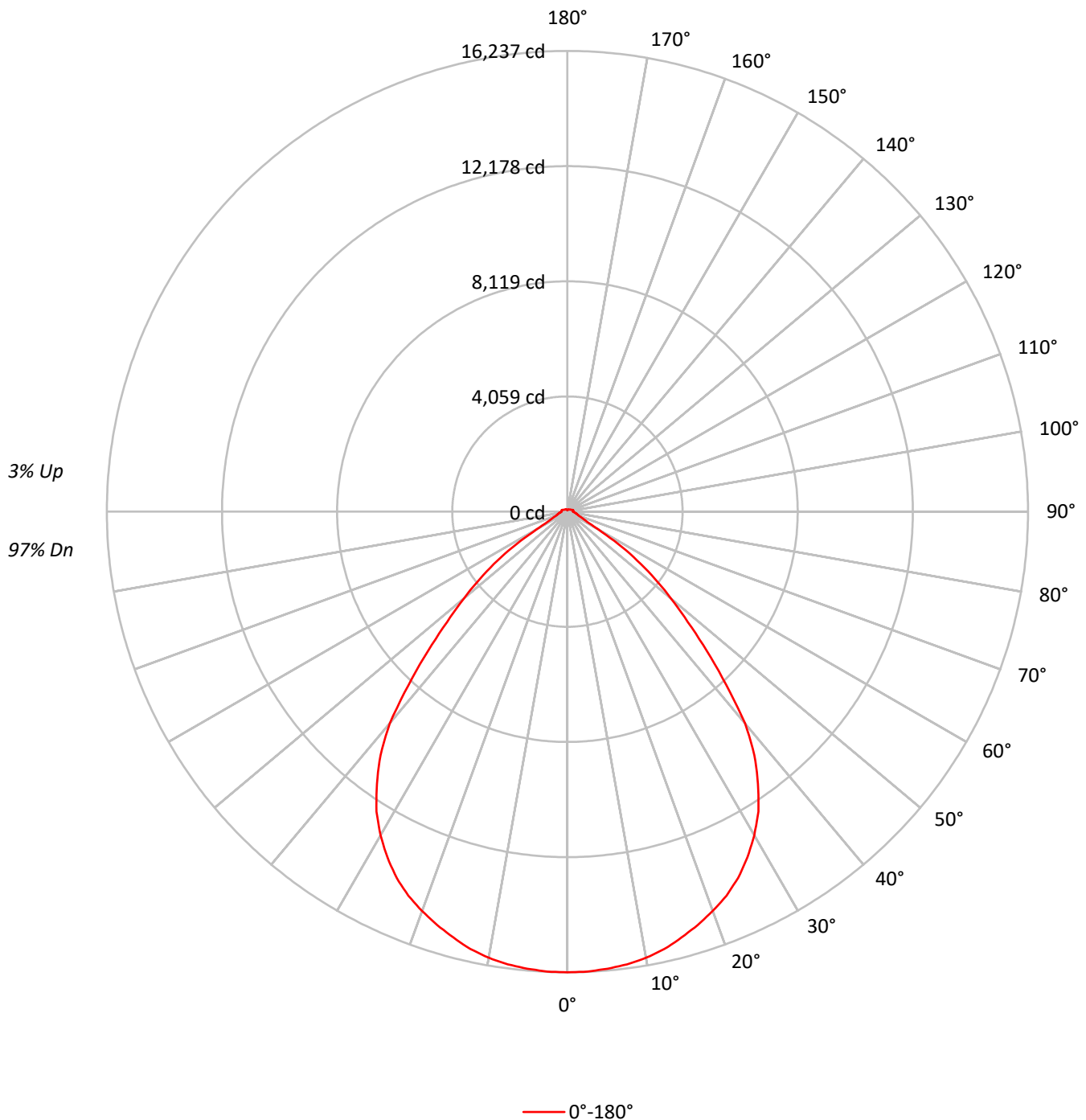
Lumens per Lamp: N/A
Luminaire Lumens: 30051.0 lumens
Efficiency: N/A
Efficacy: 157.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.22
Luminous Opening: Vertical Cylinder (Dia: 1.34' x H: 0.25')
CIE Type: Direct

Input Watts (W): 191
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99
1	111	107	104	101	108	105	102	99	100	98	96	96	94	92	92	90	89
2	103	97	92	87	101	95	90	86	91	87	84	87	84	81	84	82	79
3	96	88	81	76	94	86	80	75	83	78	74	80	76	72	77	74	71
4	89	80	73	67	87	78	72	67	76	70	65	73	68	64	71	67	63
5	83	73	65	60	81	72	65	59	69	63	59	67	62	58	65	61	57
6	78	67	59	54	76	66	58	53	64	57	53	62	56	52	60	55	51
7	73	61	54	48	71	60	53	48	59	52	48	57	51	47	55	50	47
8	68	56	49	44	67	56	49	44	54	48	43	53	47	43	51	46	42
9	64	52	45	40	63	51	45	40	50	44	40	49	43	39	48	43	39
10	60	48	41	37	59	48	41	37	47	41	36	46	40	36	45	39	36

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	124486
5°	121917
10°	119318
15°	115939
20°	112464
25°	108447
30°	102500
35°	93956
40°	81280
45°	60786
50°	44285
55°	30037
60°	13433
65°	7655
70°	5938
75°	5513
80°	5548
85°	5761

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 60786 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1537.4	5.1
10°-20°	4384.9	14.6
20°-30°	6537.3	21.8
30°-40°	7264.9	24.2
40°-50°	5413.5	18.0
50°-60°	2668.2	8.9
60°-70°	687.3	2.3
70°-80°	377.8	1.3
80°-90°	267.4	0.9
90°-100°	227.2	0.8
100°-110°	214.3	0.7
110°-120°	154.4	0.5
120°-130°	109.8	0.4
130°-140°	82.5	0.3
140°-150°	60.0	0.2
150°-160°	38.8	0.1
160°-170°	19.9	0.1
170°-180°	5.4	0.0
0°-30°	12459.7	41.5
0°-40°	19724.6	65.6
0°-60°	27806.3	92.5
0°-90°	29138.8	97.0
90°-120°	595.9	2.0
90°-150°	848.1	2.8
90°-180°	912.0	3.0
0°-180°	30051.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	16237	
5°	16171	###
15°	15539	4385
25°	14243	6537
35°	11712	7265
45°	6941	5414
55°	3011	2668
65°	637	687
75°	352	378
85°	244	210
90°	199	113
95°	209	172
105°	204	214
115°	155	154
125°	122	110
135°	105	82
145°	96	60
155°	84	39
165°	70	20
175°	54	5
180°	54	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	16236.9
2.5°	16225.2
5°	16171.3
7.5°	16091.7
10°	15969.8
12.5°	15791.7
15°	15538.6
17.5°	15276.2
20°	14978.6
22.5°	14648.2
25°	14242.8
27.5°	13741.3
30°	13169.5
32.5°	12529.8
35°	11712.0
37.5°	10826.2
40°	9743.6
42.5°	8286.0
45°	6940.9
47.5°	5752.9
50°	4766.3
52.5°	3882.9
55°	3011.2
57.5°	2134.8
60°	1237.3
62.5°	787.4
65°	637.4
67.5°	524.9
70°	438.2
72.5°	391.3
75°	351.5
77.5°	321.0
80°	295.3
82.5°	269.5
85°	243.7
87.5°	220.3
90°	199.2
92.5°	203.9
95°	208.6
97.5°	213.2
100°	215.6
102.5°	213.2
105°	203.9
107.5°	194.5
110°	180.4

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	166.4
115°	154.7
117.5°	142.9
120°	133.6
122.5°	126.5
125°	121.9
127.5°	117.2
130°	112.5
132.5°	110.1
135°	105.4
137.5°	103.1
140°	100.8
142.5°	98.4
145°	96.1
147.5°	91.4
150°	89.0
152.5°	86.7
155°	84.4
157.5°	79.7
160°	77.3
162.5°	72.6
165°	70.3
167.5°	65.6
170°	60.9
172.5°	56.2
175°	53.9
177.5°	56.2
180°	53.9

(END OF REPORT)