

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: P980697

Luminaire Tested: UHBS2-2436-M-L83065-MID-4000K-FRR3

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980697
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-4000K-FRR3
Description: UHBS2 LED High Bay at 4000K and MID lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

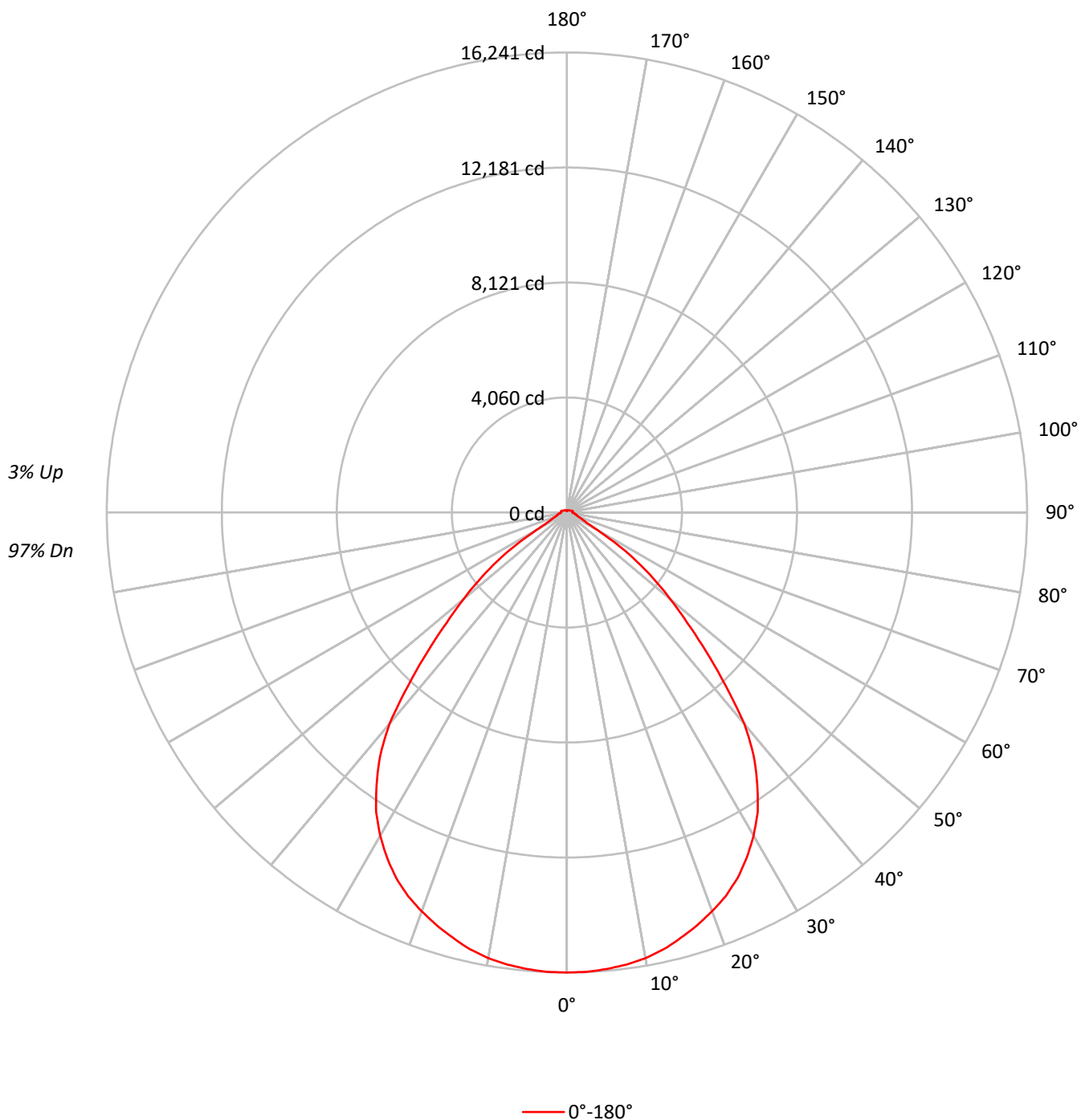
Lumens per Lamp: N/A
Luminaire Lumens: 30058.9 lumens
Efficiency: N/A
Efficacy: 158.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.22
Luminous Opening: Vertical Cylinder (Dia: 1.34' x H: 0.25')
CIE Type: Direct

Input Watts (W): 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
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°	124520
5°	121950
10°	119350
15°	115970
20°	112494
25°	108476
30°	102527
35°	93981
40°	81302
45°	60802
50°	44297
55°	30045
60°	13436
65°	7657
70°	5940
75°	5515
80°	5548
85°	5763

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 60802 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1537.8	5.1
10°-20°	4386.1	14.6
20°-30°	6539.1	21.8
30°-40°	7266.8	24.2
40°-50°	5415.0	18.0
50°-60°	2668.9	8.9
60°-70°	687.5	2.3
70°-80°	377.9	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°	12463.0	41.5
0°-40°	19729.8	65.6
0°-60°	27813.7	92.5
0°-90°	29146.5	97.0
90°-120°	596.0	2.0
90°-150°	848.3	2.8
90°-180°	912.0	3.0
0°-180°	30058.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	16241	
5°	16176	###
15°	15543	4386
25°	14247	6539
35°	11715	7267
45°	6943	5415
55°	3012	2669
65°	638	687
75°	352	378
85°	244	210
90°	199	113
95°	209	172
105°	204	214
115°	155	154
125°	122	110
135°	106	83
145°	96	60
155°	84	39
165°	70	20
175°	54	5
180°	54	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	16241.3
2.5°	16229.5
5°	16175.6
7.5°	16095.9
10°	15974.1
12.5°	15795.9
15°	15542.8
17.5°	15280.2
20°	14982.6
22.5°	14652.1
25°	14246.6
27.5°	13745.0
30°	13173.0
32.5°	12533.1
35°	11715.1
37.5°	10829.1
40°	9746.2
42.5°	8288.2
45°	6942.8
47.5°	5754.4
50°	4767.6
52.5°	3883.9
55°	3012.0
57.5°	2135.3
60°	1237.6
62.5°	787.6
65°	637.6
67.5°	525.0
70°	438.3
72.5°	391.4
75°	351.6
77.5°	321.1
80°	295.3
82.5°	269.6
85°	243.8
87.5°	220.3
90°	199.2
92.5°	203.9
95°	208.6
97.5°	213.3
100°	215.6
102.5°	213.3
105°	203.9
107.5°	194.5
110°	180.5



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	166.4
115°	154.7
117.5°	143.0
120°	133.6
122.5°	126.6
125°	121.9
127.5°	117.2
130°	112.5
132.5°	110.2
135°	105.5
137.5°	103.1
140°	100.8
142.5°	98.4
145°	96.1
147.5°	91.4
150°	89.1
152.5°	86.7
155°	84.4
157.5°	79.7
160°	77.4
162.5°	72.7
165°	70.3
167.5°	65.6
170°	60.9
172.5°	56.3
175°	53.9
177.5°	56.3
180°	53.9

(END OF REPORT)