

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: P980720

Luminaire Tested: UHBS2-2436-N-L83065-LOW-4000K-FRR6

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980720
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-344-9)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: UHBS2-2436-N-L83065-LOW-4000K-FRR6
Description: UHBS2 LED High Bay at 4000K and LOW lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

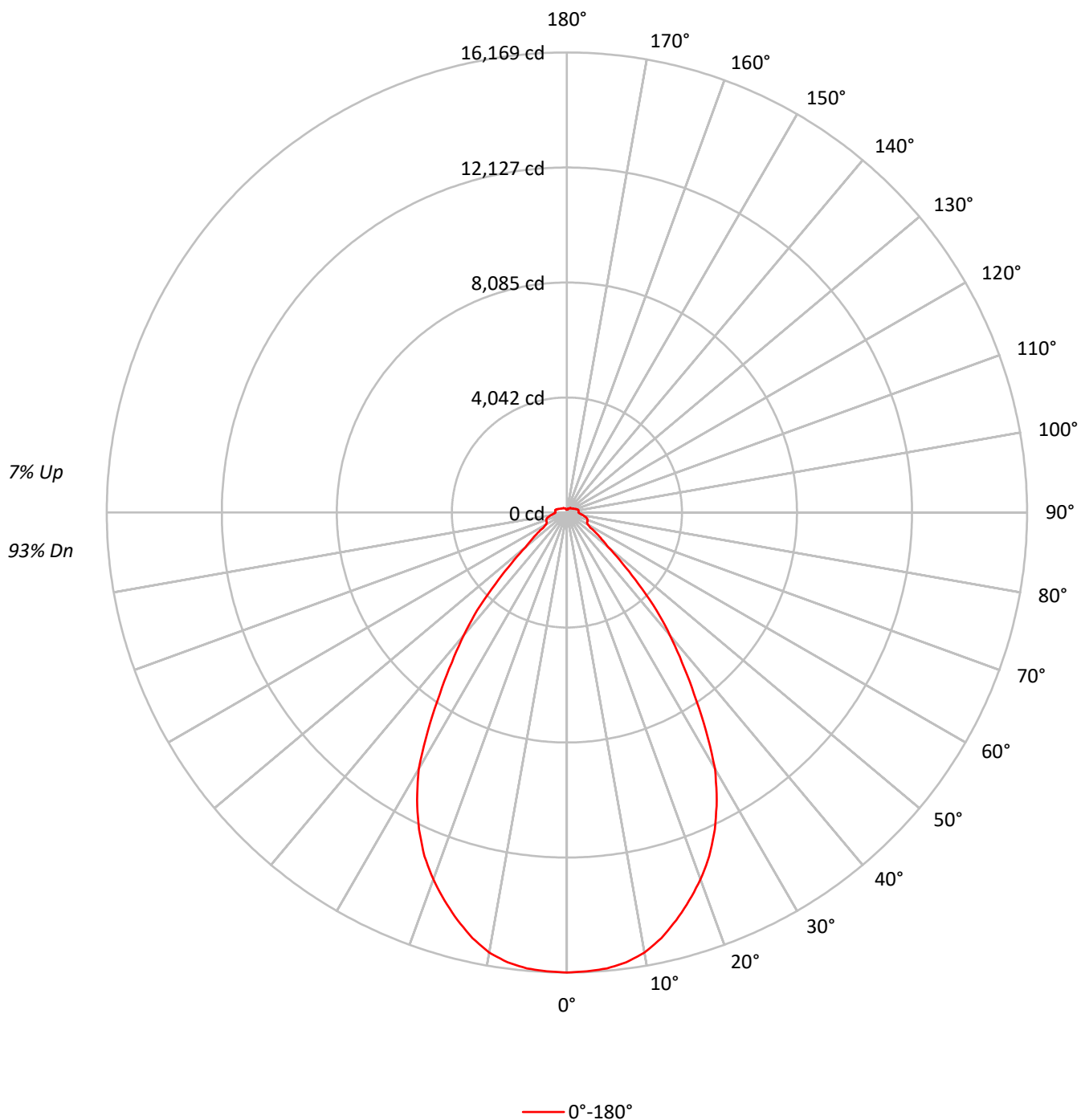
Lumens per Lamp: N/A
Luminaire Lumens: 23942.0 lumens
Efficiency: N/A
Efficacy: 156.7 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.01
Luminous Opening: Vertical Cylinder (Dia: 1.47' x H: 0.5')
CIE Type: Direct

Input Watts (W): 152.8
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 5.2
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P980720

CATALOG NUMBER: UHBS2-2436-N-L83065-LOW-4000K-FRR6

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
RCR																	
0	117	117	117	117	114	114	114	114	107	107	107		101	101	101		95
1	109	105	102	99	106	102	99	97	97	94	92		92	90	88		87
2	102	95	90	85	99	93	88	84	88	84	81		84	81	78		80
3	95	87	80	75	92	85	79	74	81	76	72		77	73	70		74
4	89	79	72	67	86	78	71	66	74	69	65		71	67	63		69
5	83	73	66	60	81	71	65	60	69	63	58		66	61	57		64
6	78	67	60	55	76	66	59	54	64	58	53		61	56	52		59
7	73	62	55	50	71	61	54	50	59	53	49		57	52	48		55
8	69	58	51	46	67	57	50	46	55	49	45		53	48	44		52
9	65	54	47	42	64	53	47	42	52	46	42		50	45	41		49
10	62	50	44	39	60	50	43	39	48	43	39		47	42	38		46

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	102272
5°	98406
10°	93721
15°	87075
20°	79823
25°	71404
30°	60812
35°	46166
40°	34132
45°	22196
50°	12307
55°	8486
60°	6137
65°	6061
70°	6545
75°	6605
80°	6081
85°	5669

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 22196 cd/sqm

TEST NUMBER: P980720

CATALOG NUMBER: UHBS2-2436-N-L83065-LOW-4000K-FRR6

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1523.6	6.4
10°-20°	4164.7	17.4
20°-30°	5605.8	23.4
30°-40°	4893.5	20.4
40°-50°	2791.0	11.7
50°-60°	1141.3	4.8
60°-70°	787.1	3.3
70°-80°	733.7	3.1
80°-90°	516.7	2.2
90°-100°	449.8	1.9
100°-110°	412.1	1.7
110°-120°	302.2	1.3
120°-130°	218.8	0.9
130°-140°	163.6	0.7
140°-150°	116.5	0.5
150°-160°	74.3	0.3
160°-170°	37.4	0.2
170°-180°	9.9	0.0
0°-30°	11294.0	47.2
0°-40°	16187.5	67.6
0°-60°	20119.8	84.0
0°-90°	22157.4	92.5
90°-120°	1164.2	4.9
90°-150°	1663.0	6.9
90°-180°	1785.0	7.5
0°-180°	23942.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	16169	
5°	16085	###
15°	14838	4165
25°	12295	5606
35°	7790	4893
45°	3554	2791
55°	1245	1141
65°	781	787
75°	706	734
85°	464	403
90°	404	225
95°	412	338
105°	394	412
115°	302	302
125°	242	219
135°	210	164
145°	184	116
155°	160	74
165°	132	37
175°	102	10
180°	100	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	16169.4
2.5°	16143.4
5°	16085.4
7.5°	15949.3
10°	15705.1
12.5°	15324.8
15°	14838.5
17.5°	14298.1
20°	13725.7
22.5°	13073.2
25°	12294.7
27.5°	11400.1
30°	10405.4
32.5°	9082.4
35°	7789.5
37.5°	6642.7
40°	5634.0
42.5°	4665.3
45°	3554.5
47.5°	2641.9
50°	1895.3
52.5°	1549.1
55°	1244.9
57.5°	964.7
60°	848.6
62.5°	798.6
65°	780.6
67.5°	782.6
70°	774.5
72.5°	750.5
75°	706.5
77.5°	644.5
80°	576.4
82.5°	516.4
85°	464.3
87.5°	424.3
90°	404.3
92.5°	408.3
95°	412.3
97.5°	418.3
100°	416.3
102.5°	408.3
105°	394.3
107.5°	372.3
110°	348.2

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	324.2
115°	302.2
117.5°	282.2
120°	266.2
122.5°	254.2
125°	242.2
127.5°	232.2
130°	224.2
132.5°	218.2
135°	210.1
137.5°	204.1
140°	198.1
142.5°	192.1
145°	184.1
147.5°	178.1
150°	172.1
152.5°	166.1
155°	160.1
157.5°	154.1
160°	146.1
162.5°	138.1
165°	132.1
167.5°	122.1
170°	112.1
172.5°	102.1
175°	102.1
177.5°	100.1
180°	100.1

(END OF REPORT)