

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: P980718

Luminaire Tested: UHBS2-2436-N-L83065-LOW-3500K-FRR6

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980718
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-3500K-FRR6
Description: UHBS2 LED High Bay at 3500K and LOW lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

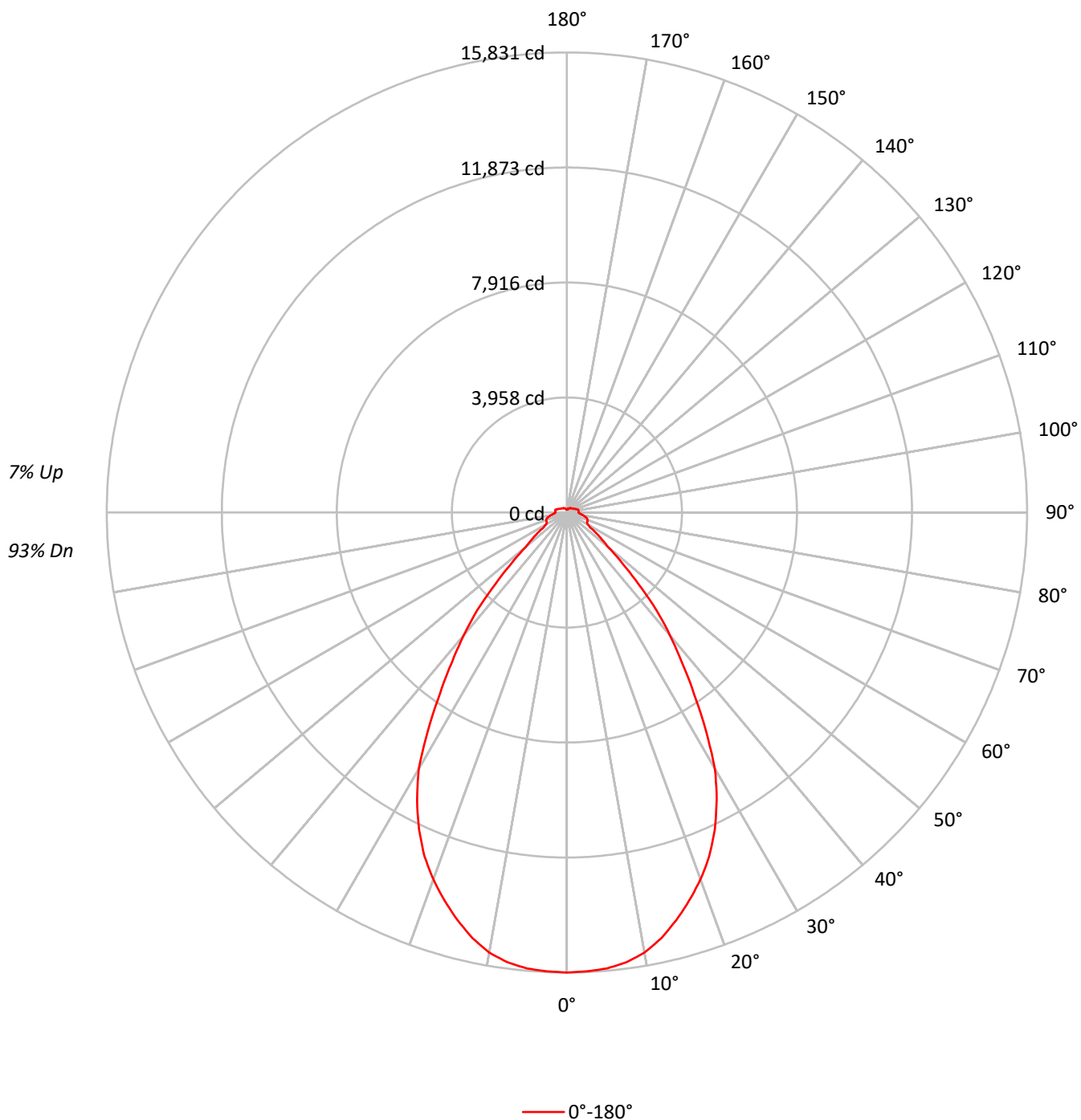
Lumens per Lamp: N/A
Luminaire Lumens: 23441.0 lumens
Efficiency: N/A
Efficacy: 151.8 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.01
Luminous Opening: Vertical Cylinder (Dia: 1.47' x H: 0.5')
CIE Type: Direct

Input Watts (W): 154.4
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

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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
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°	100133
5°	96347
10°	91760
15°	85253
20°	78152
25°	69909
30°	59539
35°	45200
40°	33418
45°	21731
50°	12050
55°	8308
60°	6009
65°	5934
70°	6409
75°	6467
80°	5953
85°	5551

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 21731 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1491.7	6.4
10°-20°	4077.5	17.4
20°-30°	5488.4	23.4
30°-40°	4791.1	20.4
40°-50°	2732.6	11.7
50°-60°	1117.4	4.8
60°-70°	770.6	3.3
70°-80°	718.3	3.1
80°-90°	505.9	2.2
90°-100°	440.4	1.9
100°-110°	403.5	1.7
110°-120°	295.9	1.3
120°-130°	214.2	0.9
130°-140°	160.2	0.7
140°-150°	114.0	0.5
150°-160°	72.8	0.3
160°-170°	36.6	0.2
170°-180°	9.7	0.0
0°-30°	11057.7	47.2
0°-40°	15848.8	67.6
0°-60°	19698.8	84.0
0°-90°	21693.7	92.5
90°-120°	1139.8	4.9
90°-150°	1628.2	6.9
90°-180°	1747.0	7.5
0°-180°	23441.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	15831	
5°	15749	###
15°	14528	4078
25°	12037	5488
35°	7626	4791
45°	3480	2733
55°	1219	1117
65°	764	771
75°	692	718
85°	455	395
90°	396	220
95°	404	331
105°	386	403
115°	296	296
125°	237	214
135°	206	160
145°	180	114
155°	157	73
165°	129	37
175°	100	10
180°	98	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	15831.1
2.5°	15805.6
5°	15748.8
7.5°	15615.5
10°	15376.5
12.5°	15004.2
15°	14528.0
17.5°	13998.9
20°	13438.5
22.5°	12799.7
25°	12037.4
27.5°	11161.5
30°	10187.6
32.5°	8892.4
35°	7626.5
37.5°	6503.7
40°	5516.1
42.5°	4567.7
45°	3480.1
47.5°	2586.6
50°	1855.7
52.5°	1516.7
55°	1218.8
57.5°	944.5
60°	830.8
62.5°	781.9
65°	764.2
67.5°	766.2
70°	758.3
72.5°	734.8
75°	691.7
77.5°	631.0
80°	564.3
82.5°	505.6
85°	454.6
87.5°	415.4
90°	395.8
92.5°	399.7
95°	403.7
97.5°	409.5
100°	407.6
102.5°	399.7
105°	386.0
107.5°	364.5
110°	341.0

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	317.4
115°	295.9
117.5°	276.3
120°	260.6
122.5°	248.9
125°	237.1
127.5°	227.3
130°	219.5
132.5°	213.6
135°	205.8
137.5°	199.9
140°	194.0
142.5°	188.1
145°	180.3
147.5°	174.4
150°	168.5
152.5°	162.6
155°	156.8
157.5°	150.9
160°	143.0
162.5°	135.2
165°	129.3
167.5°	119.5
170°	109.7
172.5°	99.9
175°	99.9
177.5°	98.0
180°	98.0

(END OF REPORT)