

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: P980716

Luminaire Tested: UHBS2-2436-N-L83065-LOW-3000K-FRR6

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980716
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-3000K-FRR6
Description: UHBS2 LED High Bay at 3000K and LOW lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

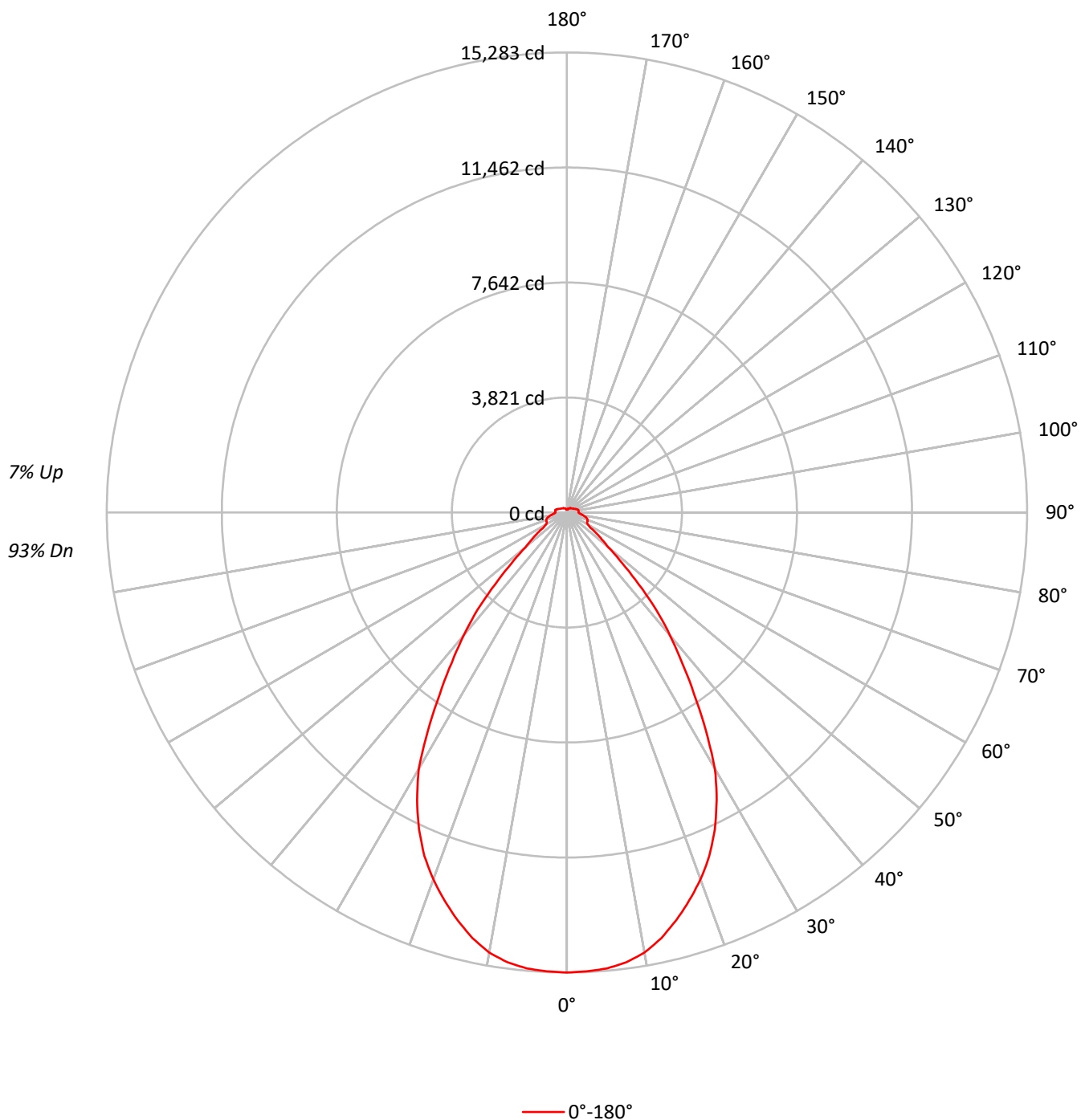
Lumens per Lamp: N/A
Luminaire Lumens: 22629.0 lumens
Efficiency: N/A
Efficacy: 145.1 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.01
Luminous Opening: Vertical Cylinder (Dia: 1.47' x H: 0.5')
CIE Type: Direct

Input Watts (W): 156
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	30	10
RCR																					
0	117	117	117	117		114	114	114	114		107	107	107		101	101	101		95	95	95
1	109	105	102	99		106	102	99	97		97	94	92		92	90	88		87	86	84
2	102	95	90	85		99	93	88	84		88	84	81		84	81	78		80	78	75
3	95	87	80	75		92	85	79	74		81	76	72		77	73	70		74	71	68
4	89	79	72	67		86	78	71	66		74	69	65		71	67	63		69	65	62
5	83	73	66	60		81	71	65	60		69	63	58		66	61	57		64	59	56
6	78	67	60	55		76	66	59	54		64	58	53		61	56	52		59	55	51
7	73	62	55	50		71	61	54	50		59	53	49		57	52	48		55	51	47
8	69	58	51	46		67	57	50	46		55	49	45		53	48	44		52	47	44
9	65	54	47	42		64	53	47	42		52	46	42		50	45	41		49	44	40
10	62	50	44	39		60	50	43	39		48	43	39		47	42	38		46	41	38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	96664
5°	93009
10°	88581
15°	82299
20°	75445
25°	67488
30°	57477
35°	43634
40°	32260
45°	20979
50°	11632
55°	8021
60°	5801
65°	5728
70°	6187
75°	6243
80°	5747
85°	5359

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 20979 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1440.0	6.4
10°-20°	3936.3	17.4
20°-30°	5298.3	23.4
30°-40°	4625.1	20.4
40°-50°	2637.9	11.7
50°-60°	1078.7	4.8
60°-70°	743.9	3.3
70°-80°	693.5	3.1
80°-90°	488.4	2.2
90°-100°	425.2	1.9
100°-110°	389.5	1.7
110°-120°	285.6	1.3
120°-130°	206.7	0.9
130°-140°	154.6	0.7
140°-150°	110.1	0.5
150°-160°	70.3	0.3
160°-170°	35.4	0.2
170°-180°	9.4	0.0
0°-30°	10674.6	47.2
0°-40°	15299.8	67.6
0°-60°	19016.4	84.0
0°-90°	20942.2	92.5
90°-120°	1100.3	4.9
90°-150°	1571.8	6.9
90°-180°	1687.0	7.5
0°-180°	22629.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	15283	
5°	15203	###
15°	14025	3936
25°	11620	5298
35°	7362	4625
45°	3360	2638
55°	1177	1079
65°	738	744
75°	668	693
85°	439	381
90°	382	213
95°	390	320
105°	373	389
115°	286	286
125°	229	207
135°	199	155
145°	174	110
155°	151	70
165°	125	35
175°	96	9
180°	95	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	15282.7
2.5°	15258.1
5°	15203.2
7.5°	15074.6
10°	14843.8
12.5°	14484.4
15°	14024.7
17.5°	13514.0
20°	12973.0
22.5°	12356.3
25°	11620.4
27.5°	10774.9
30°	9834.7
32.5°	8584.3
35°	7362.3
37.5°	6278.4
40°	5325.0
42.5°	4409.5
45°	3359.6
47.5°	2497.0
50°	1791.4
52.5°	1464.1
55°	1176.6
57.5°	911.8
60°	802.1
62.5°	754.8
65°	737.7
67.5°	739.6
70°	732.1
72.5°	709.4
75°	667.8
77.5°	609.1
80°	544.8
82.5°	488.0
85°	438.9
87.5°	401.0
90°	382.1
92.5°	385.9
95°	389.7
97.5°	395.4
100°	393.5
102.5°	385.9
105°	372.7
107.5°	351.8
110°	329.1



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	306.4
115°	285.6
117.5°	266.7
120°	251.6
122.5°	240.2
125°	228.9
127.5°	219.4
130°	211.9
132.5°	206.2
135°	198.6
137.5°	192.9
140°	187.3
142.5°	181.6
145°	174.0
147.5°	168.4
150°	162.7
152.5°	157.0
155°	151.3
157.5°	145.7
160°	138.1
162.5°	130.5
165°	124.8
167.5°	115.4
170°	105.9
172.5°	96.5
175°	96.5
177.5°	94.6
180°	94.6

(END OF REPORT)