

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: P980686

Luminaire Tested: UHBS2-2436-M-L83065-LOW-5000K-FRR6

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980686
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-344-8)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: UHBS2-2436-M-L83065-LOW-5000K-FRR6
Description: UHBS2 LED High Bay at 5000K and LOW lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

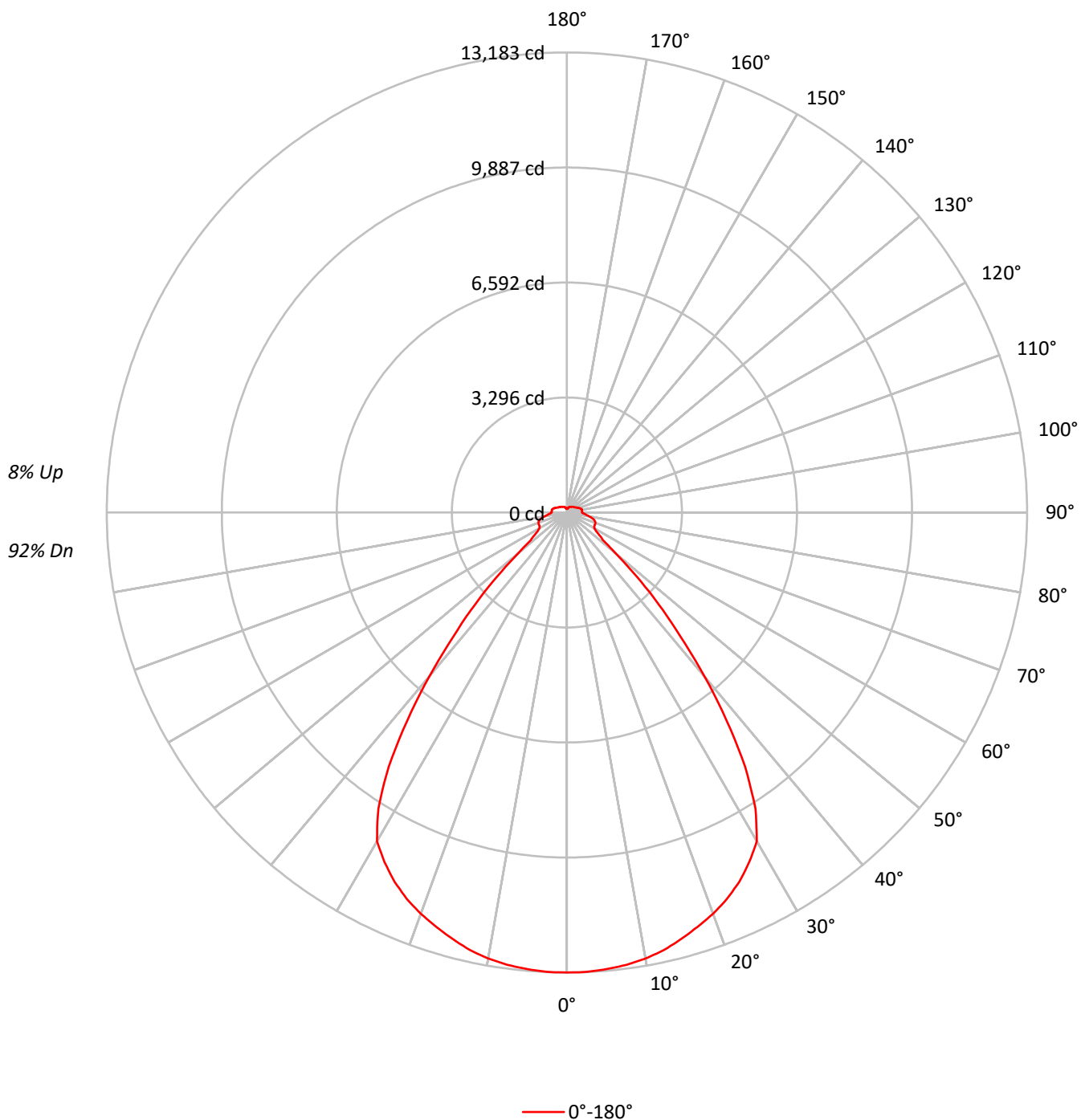
Lumens per Lamp: N/A
Luminaire Lumens: 23775.1 lumens
Efficiency: N/A
Efficacy: 154.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.13
Luminous Opening: Vertical Cylinder (Dia: 1.47' x H: 0.5')
CIE Type: Direct

Input Watts (W): 153.7
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	113	113	113	113	107	107	107	100	100	100	95	95	95
1	109	105	101	98	105	102	98	96	96	93	91	91	89	87	86	85	83
2	101	94	89	84	98	92	87	83	87	83	79	83	80	77	79	76	74
3	94	86	79	74	91	83	77	73	80	74	70	76	72	68	72	69	66
4	88	78	71	65	85	76	70	64	73	67	63	70	65	61	67	63	60
5	82	71	64	58	80	70	63	58	67	61	57	64	59	55	62	57	54
6	77	66	58	53	75	64	57	52	62	56	51	60	54	50	57	53	49
7	72	61	53	48	70	59	52	47	57	51	47	55	50	46	53	49	45
8	68	56	49	44	66	55	48	43	53	47	43	51	46	42	50	45	41
9	64	52	45	40	62	51	44	40	50	43	39	48	43	39	47	42	38
10	60	48	42	37	59	48	41	37	46	40	36	45	40	36	44	39	35

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	83383
5°	80360
10°	77461
15°	74262
20°	71175
25°	67815
30°	63586
35°	52753
40°	37095
45°	23135
50°	11770
55°	7739
60°	6582
65°	6773
70°	7340
75°	7500
80°	6947
85°	6308

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 23135 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1249.0	5.3
10°-20°	3571.6	15.0
20°-30°	5365.5	22.6
30°-40°	5433.5	22.9
40°-50°	2891.4	12.2
50°-60°	1068.8	4.5
60°-70°	873.2	3.7
70°-80°	831.7	3.5
80°-90°	575.2	2.4
90°-100°	476.1	2.0
100°-110°	434.9	1.8
110°-120°	326.8	1.4
120°-130°	240.0	1.0
130°-140°	179.3	0.8
140°-150°	126.8	0.5
150°-160°	80.6	0.3
160°-170°	40.2	0.2
170°-180°	10.5	0.0
0°-30°	10186.2	42.8
0°-40°	15619.7	65.7
0°-60°	19579.9	82.4
0°-90°	21859.9	91.9
90°-120°	1237.9	5.2
90°-150°	1783.9	7.5
90°-180°	1915.0	8.1
0°-180°	23775.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	13183	
5°	13136	###
15°	12655	3572
25°	11677	5366
35°	8901	5433
45°	3705	2891
55°	1135	1069
65°	872	873
75°	802	832
85°	517	452
90°	435	242
95°	437	357
105°	414	435
115°	327	327
125°	265	240
135°	231	179
145°	201	127
155°	174	81
165°	140	40
175°	106	10
180°	104	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	13182.9
2.5°	13177.2
5°	13135.6
7.5°	13073.1
10°	12980.4
12.5°	12840.4
15°	12655.0
17.5°	12448.7
20°	12238.7
22.5°	11985.1
25°	11676.7
27.5°	11305.8
30°	10880.1
32.5°	10053.2
35°	8900.9
37.5°	7521.5
40°	6123.1
42.5°	4804.3
45°	3704.9
47.5°	2690.7
50°	1812.7
52.5°	1307.5
55°	1135.3
57.5°	991.5
60°	910.1
62.5°	883.7
65°	872.3
67.5°	874.2
70°	868.5
72.5°	847.7
75°	802.3
77.5°	734.2
80°	658.5
82.5°	582.8
85°	516.6
87.5°	463.6
90°	435.2
92.5°	433.3
95°	437.1
97.5°	439.0
100°	437.1
102.5°	429.5
105°	414.4
107.5°	395.5
110°	370.9



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	348.2
115°	327.3
117.5°	308.4
120°	291.4
122.5°	278.2
125°	264.9
127.5°	255.4
130°	247.9
132.5°	238.4
135°	230.8
137.5°	223.3
140°	215.7
142.5°	208.1
145°	200.6
147.5°	194.9
150°	187.3
152.5°	181.7
155°	174.1
157.5°	164.6
160°	157.1
162.5°	149.5
165°	140.0
167.5°	132.5
170°	119.2
172.5°	107.9
175°	106.0
177.5°	106.0
180°	104.1

(END OF REPORT)