

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: P980665

Luminaire Tested: UHBS2-2436-M-L83065-HIGH-3500K-FRR6

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980665
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-HIGH-3500K-FRR6
Description: UHBS2 LED High Bay at 3500K and HIGH lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

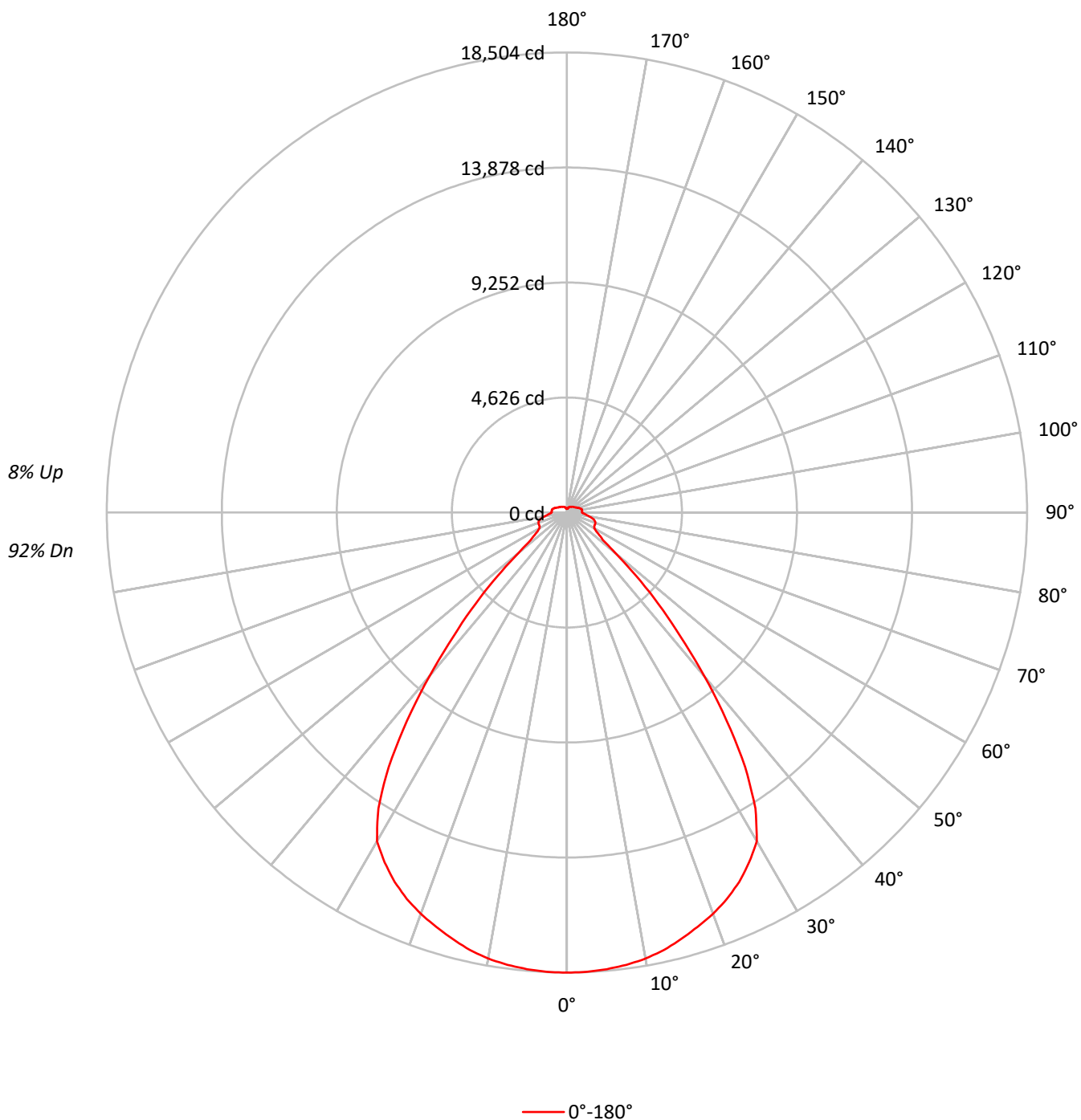
Lumens per Lamp: N/A
Luminaire Lumens: 33371.9 lumens
Efficiency: N/A
Efficacy: 141.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.13
Luminous Opening: Vertical Cylinder (Dia: 1.47' x H: 0.5')
CIE Type: Direct

Input Watts (W): 235.5
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.999
Total Harmonic Distortion (THDi): 5.15
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P980665

CATALOG NUMBER: UHBS2-2436-M-L83065-HIGH-3500K-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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	117	117	117	117	113	113	113	113	107	107	107		100	100	100		95	95	95	92
1	109	105	101	98	105	102	98	96	96	93	91		91	89	87		86	85	83	81
2	101	94	89	84	98	92	87	83	87	83	79		83	80	77		79	76	74	71
3	94	86	79	74	91	83	77	73	80	74	70		76	72	68		72	69	66	64
4	88	78	71	65	85	76	70	64	73	67	63		70	65	61		67	63	60	57
5	82	71	64	58	80	70	63	58	67	61	57		64	59	55		62	58	54	52
6	77	66	58	53	75	64	57	52	62	56	51		60	54	50		57	53	49	47
7	72	61	53	48	70	59	52	47	57	51	47		55	50	46		53	49	45	43
8	68	56	49	44	66	55	48	43	53	47	43		51	46	42		50	45	41	40
9	64	52	45	40	62	51	44	40	50	43	39		48	43	39		47	42	38	36
10	60	48	42	37	59	48	41	37	46	40	36		45	40	36		44	39	35	34

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	117041
5°	112798
10°	108729
15°	104238
20°	99905
25°	95189
30°	89253
35°	74047
40°	52069
45°	32473
50°	16522
55°	10863
60°	9239
65°	9507
70°	10303
75°	10528
80°	9751
85°	8854

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 32473 cd/sqm

TEST NUMBER: P980665

CATALOG NUMBER: UHBS2-2436-M-L83065-HIGH-3500K-FRR6

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1753.2	5.3
10°-20°	5013.3	15.0
20°-30°	7531.4	22.6
30°-40°	7626.8	22.9
40°-50°	4058.6	12.2
50°-60°	1500.2	4.5
60°-70°	1225.6	3.7
70°-80°	1167.4	3.5
80°-90°	807.3	2.4
90°-100°	668.3	2.0
100°-110°	610.5	1.8
110°-120°	458.8	1.4
120°-130°	336.8	1.0
130°-140°	251.7	0.8
140°-150°	178.0	0.5
150°-160°	113.1	0.3
160°-170°	56.4	0.2
170°-180°	14.7	0.0
0°-30°	14297.9	42.8
0°-40°	21924.7	65.7
0°-60°	27483.5	82.4
0°-90°	30683.8	91.9
90°-120°	1737.5	5.2
90°-150°	2503.9	7.5
90°-180°	2688.0	8.1
0°-180°	33371.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	18504	
5°	18438	###
15°	17763	5013
25°	16390	7531
35°	12494	7627
45°	5200	4059
55°	1594	1500
65°	1224	1226
75°	1126	1167
85°	725	634
90°	611	340
95°	614	501
105°	582	610
115°	460	459
125°	372	337
135°	324	252
145°	282	178
155°	244	113
165°	196	56
175°	149	15
180°	146	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	18504.3
2.5°	18496.3
5°	18437.9
7.5°	18350.2
10°	18220.1
12.5°	18023.5
15°	17763.3
17.5°	17473.7
20°	17178.9
22.5°	16823.0
25°	16390.1
27.5°	15869.5
30°	15271.9
32.5°	14111.3
35°	12493.8
37.5°	10557.6
40°	8594.8
42.5°	6743.6
45°	5200.4
47.5°	3776.8
50°	2544.4
52.5°	1835.3
55°	1593.6
57.5°	1391.7
60°	1277.5
62.5°	1240.3
65°	1224.4
67.5°	1227.1
70°	1219.1
72.5°	1189.9
75°	1126.1
77.5°	1030.5
80°	924.3
82.5°	818.0
85°	725.1
87.5°	650.7
90°	610.9
92.5°	608.2
95°	613.5
97.5°	616.2
100°	613.5
102.5°	602.9
105°	581.7
107.5°	555.1
110°	520.6



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CATALOG NUMBER: UHBS2-2436-M-L83065-HIGH-3500K-FRR6

CANDELA DISTRIBUTION (continued):

	0°
112.5°	488.7
115°	459.5
117.5°	432.9
120°	409.0
122.5°	390.4
125°	371.8
127.5°	358.6
130°	347.9
132.5°	334.7
135°	324.0
137.5°	313.4
140°	302.8
142.5°	292.2
145°	281.5
147.5°	273.6
150°	262.9
152.5°	255.0
155°	244.4
157.5°	231.1
160°	220.4
162.5°	209.8
165°	196.5
167.5°	185.9
170°	167.3
172.5°	151.4
175°	148.7
177.5°	148.7
180°	146.1

(END OF REPORT)