

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: P980674

Luminaire Tested: UHBS2-2436-M-L83065-HIGH-6500K-FRR6

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980674
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-6500K-FRR6
Description: UHBS2 LED High Bay at 6500K and HIGH lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

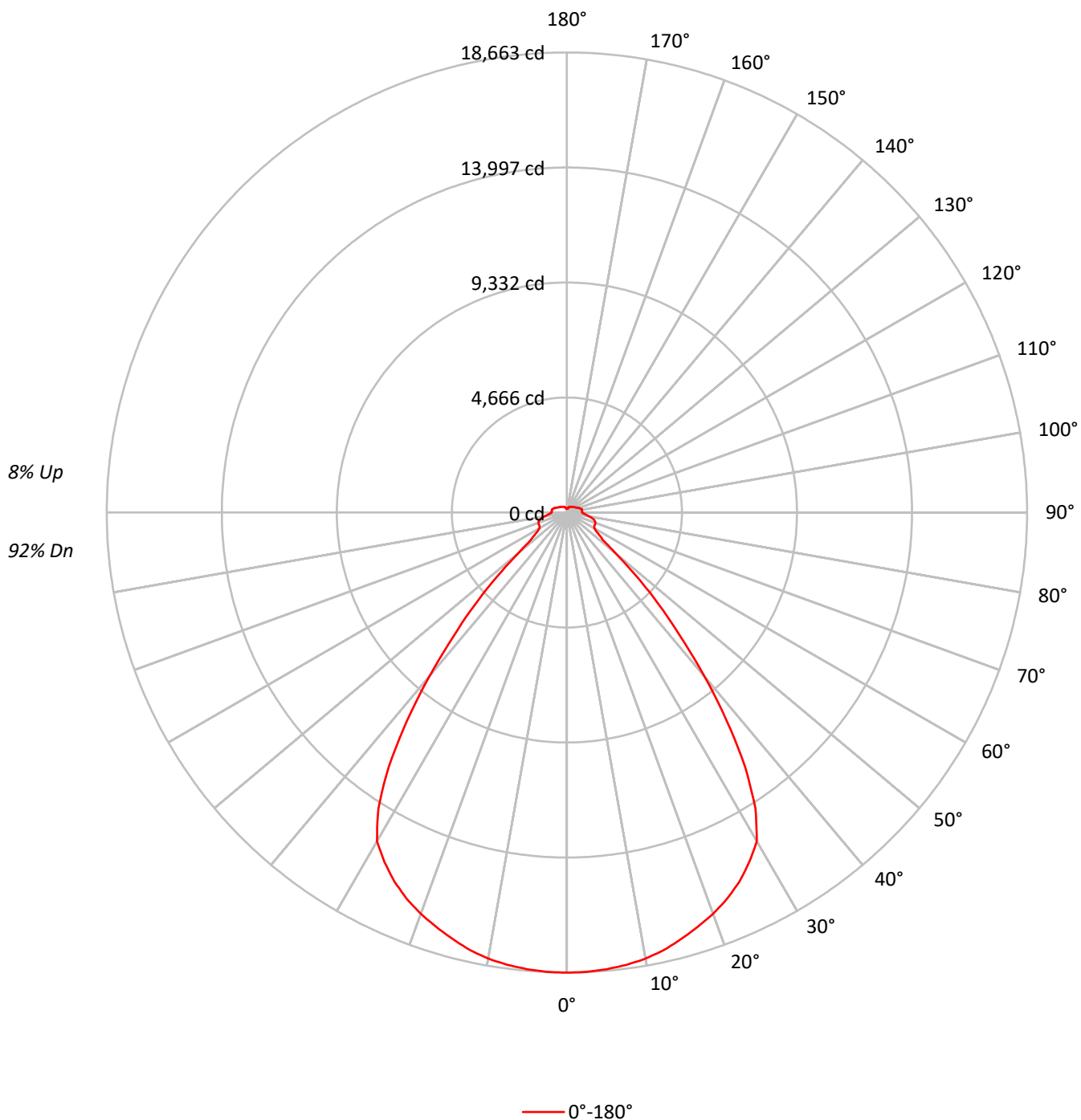
Lumens per Lamp: N/A
Luminaire Lumens: 33658.9 lumens
Efficiency: N/A
Efficacy: 140.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.13
Luminous Opening: Vertical Cylinder (Dia: 1.47' x H: 0.5')
CIE Type: Direct

Input Watts (W): 239.1
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: P980674

CATALOG NUMBER: UHBS2-2436-M-L83065-HIGH-6500K-FRR6

Luminous Intensity Polar Plot



TEST NUMBER: P980674

CATALOG NUMBER: UHBS2-2436-M-L83065-HIGH-6500K-FRR6

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	118047
5°	113768
10°	109665
15°	105134
20°	100764
25°	96007
30°	90021
35°	74683
40°	52517
45°	32752
50°	16664
55°	10957
60°	9319
65°	9589
70°	10392
75°	10618
80°	9834
85°	8930

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 32752 cd/sqm

TEST NUMBER: P980674

CATALOG NUMBER: UHBS2-2436-M-L83065-HIGH-6500K-FRR6

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1768.3	5.3
10°-20°	5056.5	15.0
20°-30°	7596.2	22.6
30°-40°	7692.3	22.9
40°-50°	4093.4	12.2
50°-60°	1513.1	4.5
60°-70°	1236.1	3.7
70°-80°	1177.4	3.5
80°-90°	814.3	2.4
90°-100°	674.1	2.0
100°-110°	615.7	1.8
110°-120°	462.7	1.4
120°-130°	339.7	1.0
130°-140°	253.8	0.8
140°-150°	179.5	0.5
150°-160°	114.1	0.3
160°-170°	56.9	0.2
170°-180°	14.8	0.0
0°-30°	14420.9	42.8
0°-40°	22113.3	65.7
0°-60°	27719.8	82.4
0°-90°	30947.6	91.9
90°-120°	1752.5	5.2
90°-150°	2525.5	7.5
90°-180°	2711.0	8.1
0°-180°	33658.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	18663	
5°	18596	###
15°	17916	5056
25°	16531	7596
35°	12601	7692
45°	5245	4093
55°	1607	1513
65°	1235	1236
75°	1136	1177
85°	731	640
90°	616	343
95°	619	506
105°	587	616
115°	463	463
125°	375	340
135°	327	254
145°	284	180
155°	246	114
165°	198	57
175°	150	15
180°	147	

TEST NUMBER: P980674

CATALOG NUMBER: UHBS2-2436-M-L83065-HIGH-6500K-FRR6

CANDELA DISTRIBUTION (FULL):

0°	
0°	18663.4
2.5°	18655.4
5°	18596.4
7.5°	18508.0
10°	18376.8
12.5°	18178.5
15°	17916.0
17.5°	17624.0
20°	17326.7
22.5°	16967.7
25°	16531.1
27.5°	16006.0
30°	15403.3
32.5°	14232.6
35°	12601.2
37.5°	10648.3
40°	8668.7
42.5°	6801.5
45°	5245.1
47.5°	3809.3
50°	2566.3
52.5°	1851.1
55°	1607.3
57.5°	1403.7
60°	1288.5
62.5°	1251.0
65°	1234.9
67.5°	1237.6
70°	1229.6
72.5°	1200.1
75°	1135.8
77.5°	1039.4
80°	932.2
82.5°	825.1
85°	731.3
87.5°	656.3
90°	616.1
92.5°	613.5
95°	618.8
97.5°	621.5
100°	618.8
102.5°	608.1
105°	586.7
107.5°	559.9
110°	525.1



TEST NUMBER: P980674

CATALOG NUMBER: UHBS2-2436-M-L83065-HIGH-6500K-FRR6

CANDELA DISTRIBUTION (continued):

	0°
112.5°	492.9
115°	463.4
117.5°	436.6
120°	412.5
122.5°	393.8
125°	375.0
127.5°	361.6
130°	350.9
132.5°	337.5
135°	326.8
137.5°	316.1
140°	305.4
142.5°	294.7
145°	284.0
147.5°	275.9
150°	265.2
152.5°	257.2
155°	246.5
157.5°	233.1
160°	222.3
162.5°	211.6
165°	198.2
167.5°	187.5
170°	168.8
172.5°	152.7
175°	150.0
177.5°	150.0
180°	147.3

(END OF REPORT)