

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: P980776

Luminaire Tested: UHBS2-2436-W-L83065-MID-5000K-FRR6

Issue Date: 4/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P980776
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-344-7)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: UHBS2-2436-W-L83065-MID-5000K-FRR6
Description: UHBS2 LED High Bay at 5000K and MID lumen setting 3in Deep Frosted Refractor
Light Source: -
Ballast/Driver: -

Summary

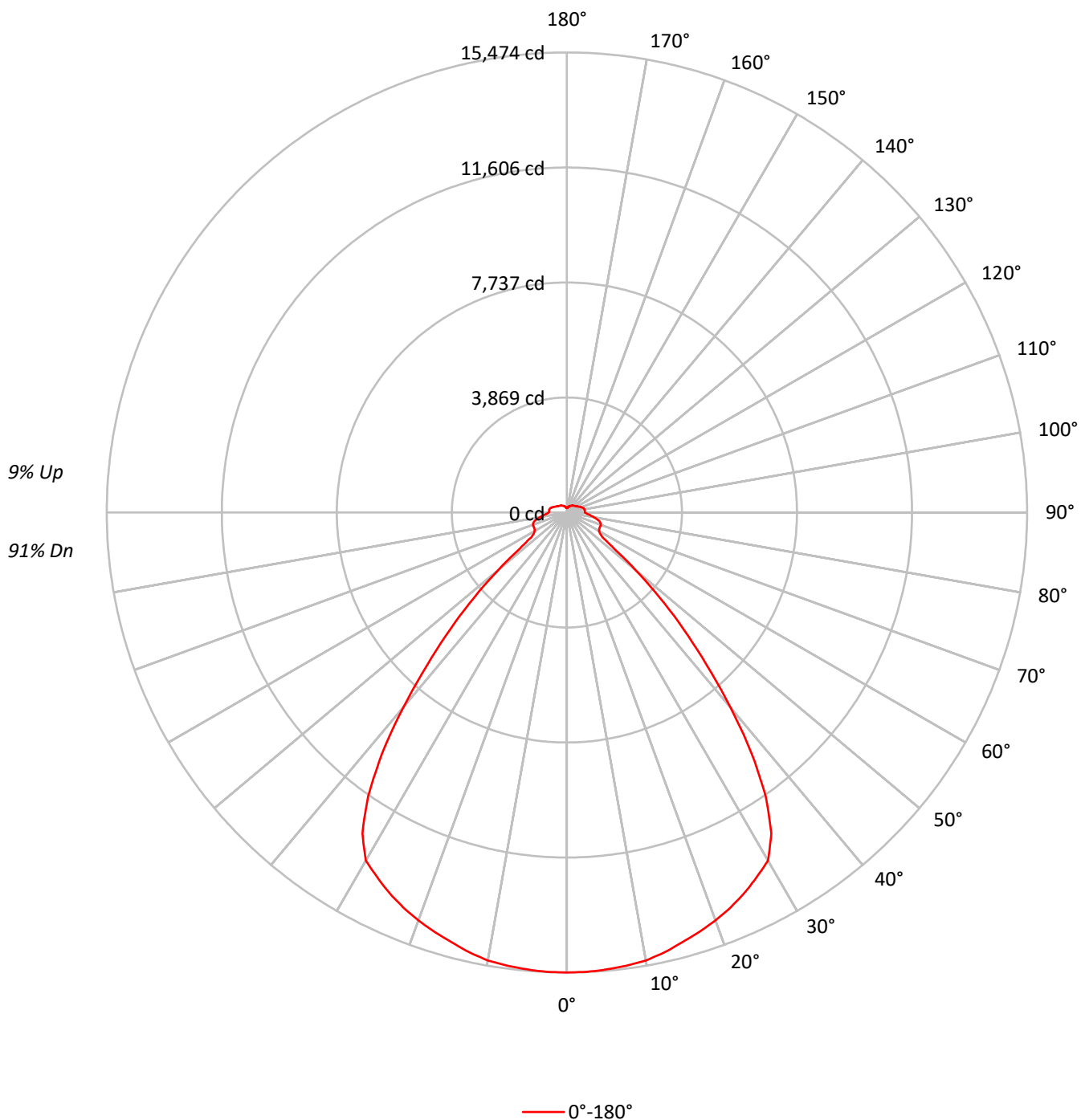
Lumens per Lamp: N/A
Luminaire Lumens: 31013.0 lumens
Efficiency: N/A
Efficacy: 162.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.18
Luminous Opening: Vertical Cylinder (Dia: 1.47' x H: 0.5')
CIE Type: Direct

Input Watts (W): 191
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.998
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: P980776

CATALOG NUMBER: UHBS2-2436-W-L83065-MID-5000K-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
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	106	106	106		100	100	100		94
1	108	104	101	97	105	101	98	95	95	93	90		90	88	86		85
2	100	94	88	83	97	91	86	81	86	82	78		82	78	75		78
3	93	85	78	72	90	82	76	71	78	73	69		75	70	67		71
4	87	77	69	64	84	75	68	63	72	66	61		68	63	60		65
5	81	70	62	57	78	68	61	56	66	59	55		63	58	53		60
6	76	64	57	51	73	63	56	50	60	54	49		58	53	48		56
7	71	59	51	46	69	58	51	46	56	49	45		54	48	44		52
8	66	55	47	42	64	53	46	42	52	45	41		50	44	40		48
9	62	50	43	38	61	50	43	38	48	42	37		46	41	37		45
10	59	47	40	35	57	46	39	35	45	39	34		43	38	34		42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	97875
5°	94374
10°	91296
15°	87844
20°	84904
25°	82012
30°	79017
35°	69079
40°	51860
45°	34560
50°	19693
55°	10059
60°	9021
65°	9423
70°	10256
75°	10559
80°	9760
85°	8804

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 34560 cd/sqm

TEST NUMBER: P980776

CATALOG NUMBER: UHBS2-2436-W-L83065-MID-5000K-FRR6

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1468.7	4.7
10°-20°	4232.4	13.6
20°-30°	6510.2	21.0
30°-40°	7113.0	22.9
40°-50°	4297.1	13.9
50°-60°	1543.6	5.0
60°-70°	1211.6	3.9
70°-80°	1168.4	3.8
80°-90°	804.9	2.6
90°-100°	656.8	2.1
100°-110°	601.3	1.9
110°-120°	456.6	1.5
120°-130°	336.3	1.1
130°-140°	251.2	0.8
140°-150°	177.3	0.6
150°-160°	112.7	0.4
160°-170°	56.3	0.2
170°-180°	14.6	0.0
0°-30°	12211.2	39.4
0°-40°	19324.2	62.3
0°-60°	25164.9	81.1
0°-90°	28349.8	91.4
90°-120°	1714.7	5.5
90°-150°	2479.6	8.0
90°-180°	2663.0	8.6
0°-180°	31013.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	15474	
5°	15426	###
15°	14970	4232
25°	14121	6510
35°	11656	7113
45°	5535	4297
55°	1476	1544
65°	1214	1212
75°	1130	1168
85°	721	633
90°	606	337
95°	601	492
105°	574	601
115°	457	457
125°	372	336
135°	324	251
145°	281	177
155°	243	113
165°	197	56
175°	149	15
180°	147	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	15474.2
2.5°	15464.6
5°	15426.2
7.5°	15375.7
10°	15298.8
12.5°	15154.6
15°	14969.6
17.5°	14794.1
20°	14599.5
22.5°	14380.8
25°	14121.2
27.5°	13825.6
30°	13520.4
32.5°	12794.7
35°	11655.5
37.5°	10194.4
40°	8560.2
42.5°	6935.6
45°	5534.6
47.5°	4227.2
50°	3032.8
52.5°	2001.9
55°	1475.6
57.5°	1326.6
60°	1247.3
62.5°	1223.2
65°	1213.6
67.5°	1216.0
70°	1213.6
72.5°	1187.2
75°	1129.5
77.5°	1035.8
80°	925.2
82.5°	817.1
85°	721.0
87.5°	648.9
90°	605.6
92.5°	600.8
95°	600.8
97.5°	603.2
100°	600.8
102.5°	591.2
105°	574.4
107.5°	547.9
110°	516.7

TEST NUMBER: P980776

CATALOG NUMBER: UHBS2-2436-W-L83065-MID-5000K-FRR6

CANDELA DISTRIBUTION (continued):

	0°
112.5°	487.9
115°	456.6
117.5°	430.2
120°	408.5
122.5°	389.3
125°	372.5
127.5°	358.1
130°	346.1
132.5°	334.0
135°	324.4
137.5°	312.4
140°	302.8
142.5°	290.8
145°	281.2
147.5°	271.6
150°	261.9
152.5°	252.3
155°	242.7
157.5°	233.1
160°	221.1
162.5°	209.1
165°	197.1
167.5°	182.6
170°	168.2
172.5°	149.0
175°	149.0
177.5°	146.6
180°	146.6

(END OF REPORT)