

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P978927

Luminaire Tested: UHBS2-2436-W-L83065-LOW-3500K

Issue Date: 3/27/2025

Test Information

Test Method: LM-79-2019
Report Number: P978927
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2405-087-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/27/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: UHBS2-2436-W-L83065-LOW-3500K
Description: UHBS2 LED High Bay at 3500K and LOW lumen setting
Light Source: -
Ballast/Driver: -

Summary

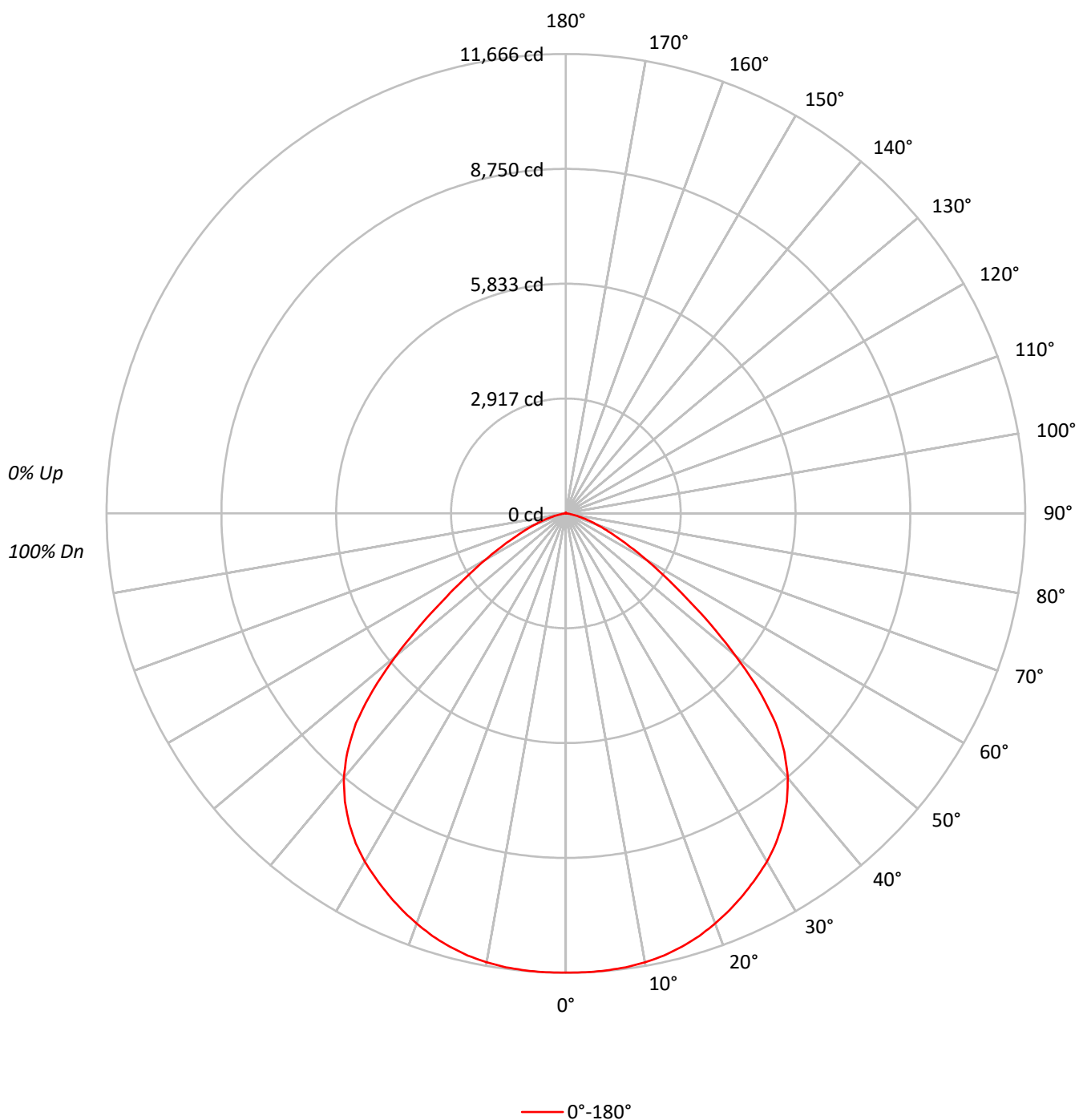
Lumens per Lamp: N/A
Luminaire Lumens: 26360.2 lumens
Efficiency: N/A
Efficacy: 170.7 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.3 / 1.36
Luminous Opening: Vertical Cylinder (Dia: 1.18' x H: 0.1')
CIE Type: Direct

Input Watts (W): 154.4
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	107	104	101	108	105	102	99	101	98	96		97	95	93		94
2	103	96	90	86	100	94	89	85	91	86	83		88	84	81		85
3	95	86	79	73	93	84	78	73	82	76	72		79	74	70		76
4	88	77	70	64	86	76	69	63	74	67	63		71	66	62		69
5	81	70	62	56	79	69	61	56	67	60	55		65	59	54		63
6	75	63	55	49	74	62	55	49	61	54	49		59	53	48		58
7	70	58	50	44	68	57	49	44	56	49	44		54	48	43		53
8	65	53	45	40	64	52	45	40	51	44	39		50	44	39		49
9	61	49	41	36	60	48	41	36	47	40	36		46	40	35		45
10	57	45	38	33	56	45	37	33	44	37	32		43	37	32		42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	115760
5°	115030
10°	114519
15°	113780
20°	112640
25°	111348
30°	110163
35°	108115
40°	104185
45°	95465
50°	77015
55°	55520
60°	39428
65°	27442
70°	18693
75°	11467
80°	5116
85°	1735

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 95465 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1110.1	4.2
10°-20°	3215.9	12.2
20°-30°	4926.3	18.7
30°-40°	5988.2	22.7
40°-50°	5698.8	21.6
50°-60°	3402.0	12.9
60°-70°	1476.7	5.6
70°-80°	469.5	1.8
80°-90°	52.4	0.2
90°-100°	1.9	0.0
100°-110°	1.5	0.0
110°-120°	1.5	0.0
120°-130°	2.4	0.0
130°-140°	2.7	0.0
140°-150°	3.3	0.0
150°-160°	3.3	0.0
160°-170°	2.5	0.0
170°-180°	1.0	0.0
0°-30°	9252.3	35.1
0°-40°	15240.5	57.8
0°-60°	24341.3	92.3
0°-90°	26340.0	99.9
90°-120°	4.9	0.0
90°-150°	13.4	0.1
90°-180°	20.0	0.1
0°-180°	26360.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11662	
5°	11653	###
15°	11393	3216
25°	10680	4926
35°	9599	5988
45°	7537	5699
55°	3704	3402
65°	1440	1477
75°	420	470
85°	34	50
90°	4	3
95°	1	1
105°	1	1
115°	1	2
125°	3	2
135°	4	3
145°	6	3
155°	7	3
165°	10	3
175°	11	1
180°	12	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	11661.5
2.5°	11665.5
5°	11653.3
7.5°	11627.4
10°	11578.3
12.5°	11501.9
15°	11392.9
17.5°	11255.2
20°	11083.4
22.5°	10893.8
25°	10679.8
27.5°	10453.5
30°	10212.1
32.5°	9931.3
35°	9598.6
37.5°	9219.5
40°	8771.0
42.5°	8214.7
45°	7537.1
47.5°	6652.2
50°	5631.0
52.5°	4624.8
55°	3704.5
57.5°	2969.6
60°	2358.7
62.5°	1843.4
65°	1439.8
67.5°	1108.5
70°	835.8
72.5°	609.5
75°	419.9
77.5°	265.9
80°	144.5
82.5°	69.5
85°	34.1
87.5°	15.0
90°	4.1
92.5°	1.4
95°	1.4
97.5°	1.4
100°	1.4
102.5°	1.4
105°	1.4
107.5°	1.4
110°	1.4



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	1.4
115°	1.4
117.5°	1.4
120°	2.7
122.5°	2.7
125°	2.7
127.5°	2.7
130°	2.7
132.5°	2.7
135°	4.1
137.5°	4.1
140°	4.1
142.5°	5.5
145°	5.5
147.5°	5.5
150°	5.5
152.5°	6.8
155°	6.8
157.5°	8.2
160°	8.2
162.5°	8.2
165°	9.5
167.5°	9.5
170°	9.5
172.5°	9.5
175°	10.9
177.5°	10.9
180°	12.3

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	24.25	25.70	24.62	26.01	26.33	24.25	25.70	24.62	26.01	26.33
	3H	24.76	26.05	25.14	26.38	26.74	24.76	26.05	25.14	26.38	26.74
	4H	24.84	26.04	25.24	26.39	26.77	24.84	26.04	25.24	26.39	26.77
	6H	24.82	25.92	25.24	26.29	26.69	24.82	25.92	25.24	26.29	26.69
	8H	24.79	25.83	25.22	26.23	26.63	24.79	25.83	25.22	26.23	26.63
	12H	24.76	25.75	25.19	26.14	26.57	24.76	25.75	25.19	26.14	26.57
4H	2H	24.42	25.61	24.82	25.97	26.35	24.42	25.61	24.82	25.97	26.35
	3H	25.04	26.02	25.46	26.42	26.82	25.04	26.02	25.46	26.42	26.82
	4H	25.15	26.02	25.59	26.44	26.88	25.15	26.02	25.59	26.44	26.88
	6H	25.16	25.91	25.62	26.35	26.82	25.16	25.91	25.62	26.35	26.82
	8H	25.12	25.82	25.58	26.26	26.73	25.12	25.82	25.58	26.26	26.73
	12H	25.08	25.70	25.57	26.18	26.66	25.08	25.70	25.57	26.18	26.66
8H	4H	25.12	25.82	25.59	26.27	26.74	25.12	25.82	25.59	26.27	26.74
	6H	25.11	25.69	25.62	26.18	26.67	25.11	25.69	25.62	26.18	26.67
	8H	25.07	25.59	25.59	26.10	26.59	25.07	25.59	25.59	26.10	26.59
	12H	25.04	25.50	25.55	25.99	26.56	25.04	25.50	25.55	25.99	26.56
12H	4H	25.08	25.70	25.57	26.19	26.66	25.08	25.70	25.57	26.19	26.66
	6H	25.06	25.58	25.58	26.09	26.59	25.06	25.58	25.58	26.09	26.59
	8H	25.04	25.50	25.55	25.99	26.56	25.04	25.50	25.55	25.99	26.56

END OF REPORT