

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: P978923

Luminaire Tested: UHBS2-2436-W-L83065-HIGH-4000K

Issue Date: 3/27/2025

Test Information

Test Method: LM-79-2019
Report Number: P978923
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-HIGH-4000K
Description: UHBS2 LED High Bay at 4000K and HIGH lumen setting
Light Source: -
Ballast/Driver: -

Summary

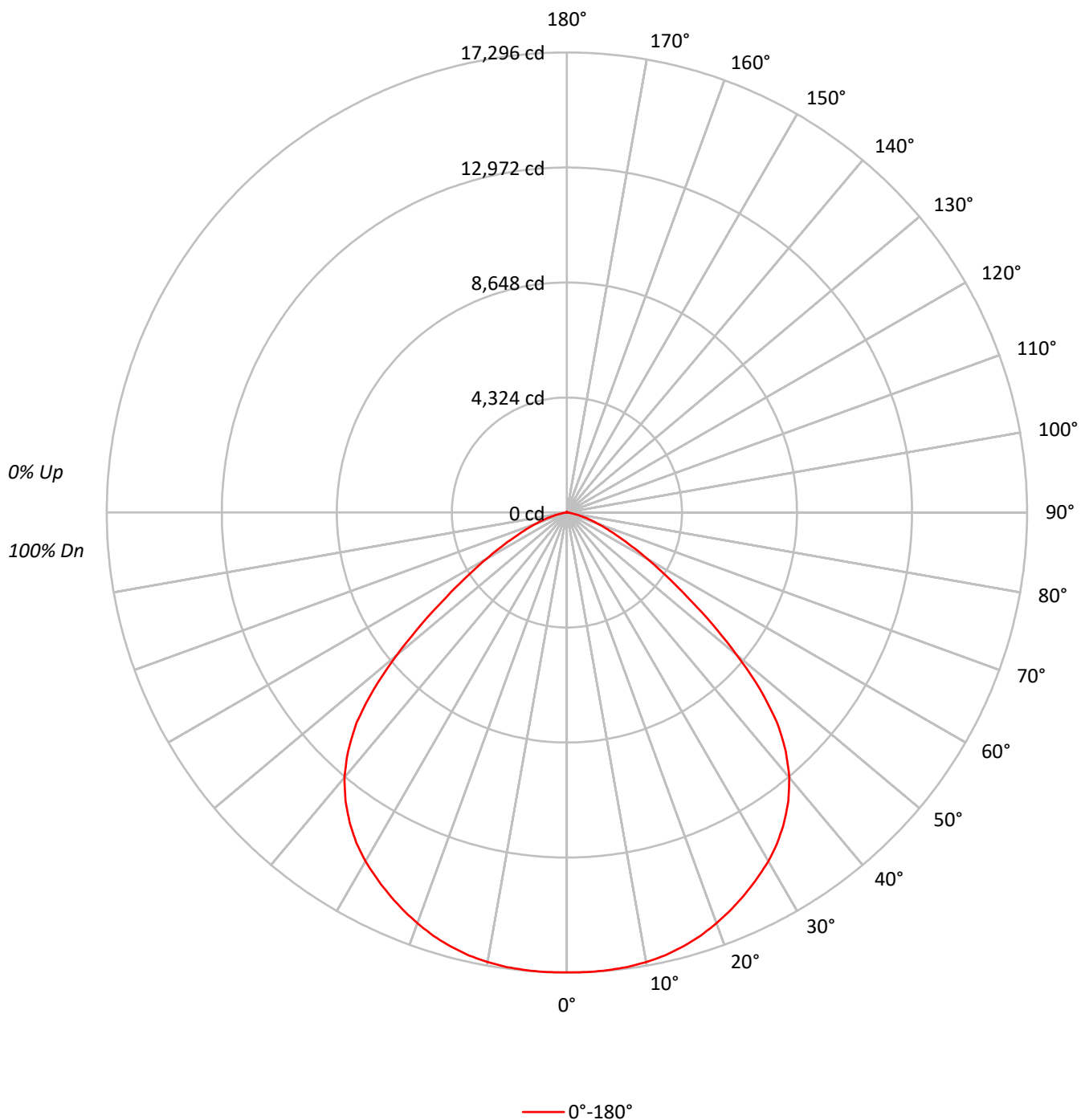
Lumens per Lamp: N/A
Luminaire Lumens: 39081.9 lumens
Efficiency: N/A
Efficacy: 168.4 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.3 / 1.36
Luminous Opening: Vertical Cylinder (Dia: 1.18' x H: 0.1')
CIE Type: Direct

Input Watts (W): 232.1
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

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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°	171629
5°	170546
10°	169789
15°	168692
20°	167003
25°	165087
30°	163331
35°	160294
40°	154467
45°	141537
50°	114183
55°	82315
60°	58458
65°	40686
70°	27715
75°	17003
80°	7588
85°	2569

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 141537 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1645.8	4.2
10°-20°	4768.0	12.2
20°-30°	7303.9	18.7
30°-40°	8878.2	22.7
40°-50°	8449.2	21.6
50°-60°	5043.8	12.9
60°-70°	2189.3	5.6
70°-80°	696.1	1.8
80°-90°	77.7	0.2
90°-100°	2.7	0.0
100°-110°	2.1	0.0
110°-120°	2.2	0.0
120°-130°	3.6	0.0
130°-140°	4.1	0.0
140°-150°	4.9	0.0
150°-160°	4.9	0.0
160°-170°	3.8	0.0
170°-180°	1.4	0.0
0°-30°	13717.7	35.1
0°-40°	22596.0	57.8
0°-60°	36089.0	92.3
0°-90°	39052.2	99.9
90°-120°	7.1	0.0
90°-150°	19.7	0.1
90°-180°	30.0	0.1
0°-180°	39081.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	17290	
5°	17277	###
15°	16891	4768
25°	15834	7304
35°	14231	8878
45°	11175	8449
55°	5492	5044
65°	2135	2189
75°	623	696
85°	50	74
90°	6	5
95°	2	2
105°	2	2
115°	2	2
125°	4	4
135°	6	4
145°	8	5
155°	10	5
165°	14	4
175°	16	1
180°	18	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	17289.6
2.5°	17295.6
5°	17277.4
7.5°	17239.0
10°	17166.3
12.5°	17053.1
15°	16891.3
17.5°	16687.2
20°	16432.5
22.5°	16151.5
25°	15834.1
27.5°	15498.6
30°	15140.8
32.5°	14724.3
35°	14231.1
37.5°	13669.1
40°	13004.1
42.5°	12179.3
45°	11174.6
47.5°	9862.7
50°	8348.6
52.5°	6856.8
55°	5492.3
57.5°	4402.7
60°	3497.1
62.5°	2733.0
65°	2134.7
67.5°	1643.4
70°	1239.2
72.5°	903.6
75°	622.6
77.5°	394.2
80°	214.3
82.5°	103.1
85°	50.5
87.5°	22.2
90°	6.1
92.5°	2.0
95°	2.0
97.5°	2.0
100°	2.0
102.5°	2.0
105°	2.0
107.5°	2.0
110°	2.0



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	2.0
115°	2.0
117.5°	2.0
120°	4.0
122.5°	4.0
125°	4.0
127.5°	4.0
130°	4.0
132.5°	4.0
135°	6.1
137.5°	6.1
140°	6.1
142.5°	8.1
145°	8.1
147.5°	8.1
150°	8.1
152.5°	10.1
155°	10.1
157.5°	12.1
160°	12.1
162.5°	12.1
165°	14.2
167.5°	14.2
170°	14.2
172.5°	14.2
175°	16.2
177.5°	16.2
180°	18.2

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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	25.62	27.06	25.98	27.38	27.70	25.62	27.06	25.98	27.38	27.70
	3H	26.13	27.41	26.51	27.74	28.11	26.13	27.41	26.51	27.74	28.11
	4H	26.21	27.40	26.61	27.76	28.14	26.21	27.40	26.61	27.76	28.14
	6H	26.19	27.29	26.61	27.66	28.06	26.19	27.29	26.61	27.66	28.06
	8H	26.16	27.20	26.59	27.59	28.00	26.16	27.20	26.59	27.59	28.00
	12H	26.13	27.12	26.56	27.51	27.94	26.13	27.12	26.56	27.51	27.94
4H	2H	25.79	26.98	26.19	27.33	27.72	25.79	26.98	26.19	27.33	27.72
	3H	26.41	27.39	26.83	27.79	28.19	26.41	27.39	26.83	27.79	28.19
	4H	26.52	27.39	26.96	27.81	28.25	26.52	27.39	26.96	27.81	28.25
	6H	26.52	27.27	26.99	27.72	28.18	26.52	27.27	26.99	27.72	28.18
	8H	26.48	27.18	26.95	27.63	28.10	26.48	27.18	26.95	27.63	28.10
	12H	26.45	27.07	26.93	27.55	28.03	26.45	27.07	26.93	27.55	28.03
8H	4H	26.49	27.19	26.95	27.63	28.10	26.49	27.19	26.95	27.63	28.10
	6H	26.48	27.06	26.98	27.55	28.03	26.48	27.06	26.98	27.55	28.03
	8H	26.44	26.96	26.96	27.47	27.96	26.44	26.96	26.96	27.47	27.96
	12H	26.40	26.86	26.92	27.36	27.93	26.40	26.86	26.92	27.36	27.93
12H	4H	26.45	27.07	26.94	27.55	28.03	26.45	27.07	26.94	27.55	28.03
	6H	26.43	26.95	26.95	27.46	27.95	26.43	26.95	26.95	27.46	27.95
	8H	26.41	26.87	26.92	27.36	27.93	26.41	26.87	26.92	27.36	27.93