

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: P978931

Luminaire Tested: UHBS2-2436-W-L83065-MID-3000K

Issue Date: 3/27/2025

Test Information

Test Method: LM-79-2019
Report Number: P978931
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-MID-3000K
Description: UHBS2 LED High Bay at 3000K and MID lumen setting
Light Source: -
Ballast/Driver: -

Summary

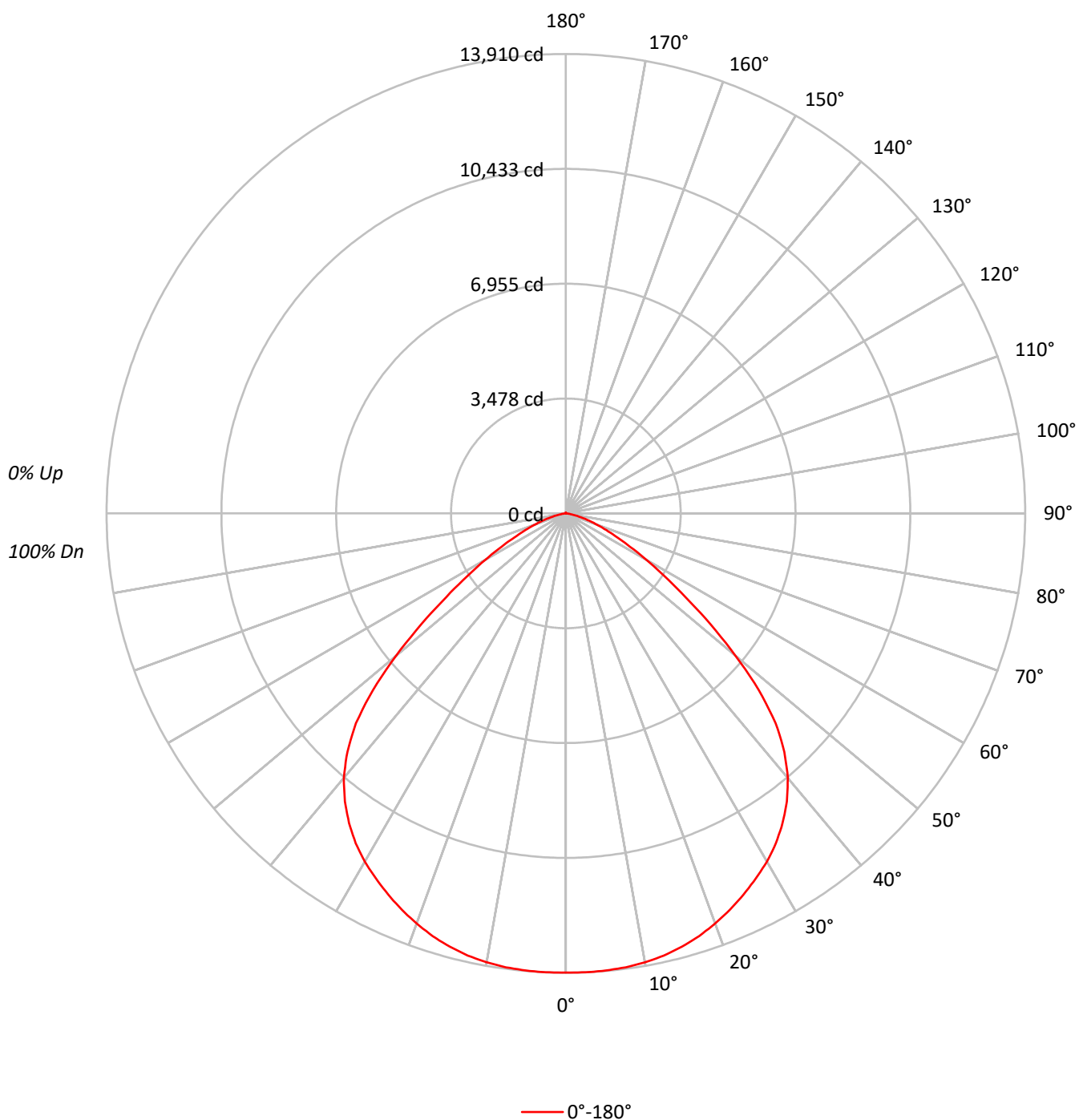
Lumens per Lamp: N/A
Luminaire Lumens: 31431.0 lumens
Efficiency: N/A
Efficacy: 161.5 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.3 / 1.36
Luminous Opening: Vertical Cylinder (Dia: 1.18' x H: 0.1')
CIE Type: Direct

Input Watts (W): 194.6
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

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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°	138029
5°	137159
10°	136550
15°	135668
20°	134308
25°	132769
30°	131356
35°	128913
40°	124227
45°	113829
50°	91830
55°	66200
60°	47014
65°	32721
70°	22289
75°	13674
80°	6101
85°	2066

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 113829 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1323.6	4.2
10°-20°	3834.6	12.2
20°-30°	5874.0	18.7
30°-40°	7140.2	22.7
40°-50°	6795.1	21.6
50°-60°	4056.4	12.9
60°-70°	1760.7	5.6
70°-80°	559.8	1.8
80°-90°	62.5	0.2
90°-100°	2.2	0.0
100°-110°	1.7	0.0
110°-120°	1.8	0.0
120°-130°	3.0	0.0
130°-140°	3.3	0.0
140°-150°	3.9	0.0
150°-160°	3.9	0.0
160°-170°	3.0	0.0
170°-180°	1.2	0.0
0°-30°	11032.2	35.1
0°-40°	18172.4	57.8
0°-60°	29023.9	92.3
0°-90°	31407.0	99.9
90°-120°	5.7	0.0
90°-150°	15.9	0.1
90°-180°	24.0	0.1
0°-180°	31431.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	13905	
5°	13895	###
15°	13585	3835
25°	12734	5874
35°	11445	7140
45°	8987	6795
55°	4417	4056
65°	1717	1761
75°	501	560
85°	41	59
90°	5	4
95°	2	1
105°	2	2
115°	2	2
125°	3	3
135°	5	3
145°	6	4
155°	8	4
165°	11	3
175°	13	1
180°	15	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	13904.8
2.5°	13909.7
5°	13895.1
7.5°	13864.2
10°	13805.7
12.5°	13714.6
15°	13584.6
17.5°	13420.4
20°	13215.5
22.5°	12989.5
25°	12734.3
27.5°	12464.4
30°	12176.7
32.5°	11841.8
35°	11445.1
37.5°	10993.2
40°	10458.3
42.5°	9795.0
45°	8987.0
47.5°	7931.9
50°	6714.2
52.5°	5514.5
55°	4417.1
57.5°	3540.8
60°	2812.5
62.5°	2198.0
65°	1716.8
67.5°	1321.7
70°	996.6
72.5°	726.7
75°	500.7
77.5°	317.0
80°	172.3
82.5°	82.9
85°	40.6
87.5°	17.9
90°	4.9
92.5°	1.6
95°	1.6
97.5°	1.6
100°	1.6
102.5°	1.6
105°	1.6
107.5°	1.6
110°	1.6



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	1.6
115°	1.6
117.5°	1.6
120°	3.3
122.5°	3.3
125°	3.3
127.5°	3.3
130°	3.3
132.5°	3.3
135°	4.9
137.5°	4.9
140°	4.9
142.5°	6.5
145°	6.5
147.5°	6.5
150°	6.5
152.5°	8.1
155°	8.1
157.5°	9.8
160°	9.8
162.5°	9.8
165°	11.4
167.5°	11.4
170°	11.4
172.5°	11.4
175°	13.0
177.5°	13.0
180°	14.6

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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	24.86	26.31	25.23	26.62	26.94	24.86	26.31	25.23	26.62	26.94
	3H	25.38	26.66	25.76	26.99	27.35	25.38	26.66	25.76	26.99	27.35
	4H	25.45	26.65	25.85	27.00	27.38	25.45	26.65	25.85	27.00	27.38
	6H	25.44	26.53	25.85	26.90	27.30	25.44	26.53	25.85	26.90	27.30
	8H	25.40	26.45	25.83	26.84	27.24	25.40	26.45	25.83	26.84	27.24
	12H	25.37	26.37	25.80	26.75	27.18	25.37	26.37	25.80	26.75	27.18
4H	2H	25.03	26.23	25.43	26.58	26.96	25.03	26.23	25.43	26.58	26.96
	3H	25.66	26.63	26.07	27.03	27.44	25.66	26.63	26.07	27.03	27.44
	4H	25.76	26.63	26.20	27.05	27.49	25.76	26.63	26.20	27.05	27.49
	6H	25.77	26.52	26.23	26.96	27.43	25.77	26.52	26.23	26.96	27.43
	8H	25.73	26.43	26.20	26.87	27.35	25.73	26.43	26.20	26.87	27.35
	12H	25.69	26.31	26.18	26.79	27.27	25.69	26.31	26.18	26.79	27.27
8H	4H	25.73	26.43	26.20	26.88	27.35	25.73	26.43	26.20	26.88	27.35
	6H	25.73	26.30	26.23	26.80	27.28	25.73	26.30	26.23	26.80	27.28
	8H	25.68	26.20	26.20	26.71	27.21	25.68	26.20	26.20	26.71	27.21
	12H	25.65	26.11	26.16	26.60	27.17	25.65	26.11	26.16	26.60	27.17
12H	4H	25.69	26.31	26.18	26.80	27.27	25.69	26.31	26.18	26.80	27.27
	6H	25.67	26.19	26.19	26.71	27.20	25.67	26.19	26.19	26.71	27.20
	8H	25.65	26.11	26.16	26.60	27.17	25.65	26.11	26.16	26.60	27.17