

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: P978934

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

Issue Date: 3/27/2025

Test Information

Test Method: LM-79-2019
Report Number: P978934
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-5000K
Description: UHBS2 LED High Bay at 5000K and MID lumen setting
Light Source: -
Ballast/Driver: -

Summary

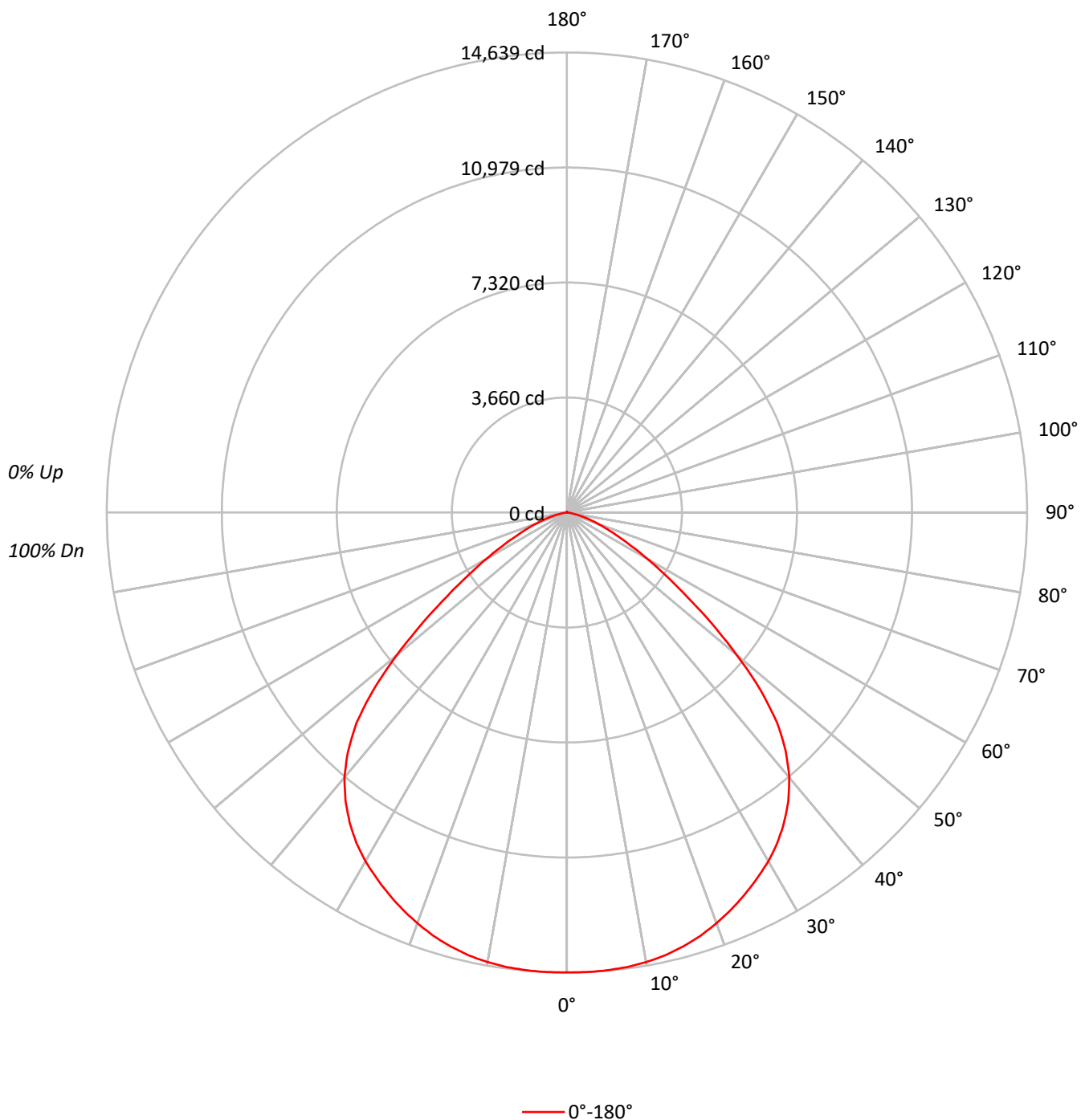
Lumens per Lamp: N/A
Luminaire Lumens: 33078.9 lumens
Efficiency: N/A
Efficacy: 173.2 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.3 / 1.36
Luminous Opening: Vertical Cylinder (Dia: 1.18' x H: 0.1')
CIE Type: Direct

Input Watts (W): 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

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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°	145266
5°	144350
10°	143709
15°	142781
20°	141350
25°	139730
30°	138243
35°	135673
40°	130740
45°	119797
50°	96646
55°	69671
60°	49479
65°	34437
70°	23457
75°	14392
80°	6423
85°	2178

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 119797 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1393.0	4.2
10°-20°	4035.7	12.2
20°-30°	6182.0	18.7
30°-40°	7514.5	22.7
40°-50°	7151.4	21.6
50°-60°	4269.1	12.9
60°-70°	1853.0	5.6
70°-80°	589.2	1.8
80°-90°	65.8	0.2
90°-100°	2.3	0.0
100°-110°	1.8	0.0
110°-120°	1.9	0.0
120°-130°	3.1	0.0
130°-140°	3.4	0.0
140°-150°	4.1	0.0
150°-160°	4.1	0.0
160°-170°	3.2	0.0
170°-180°	1.2	0.0
0°-30°	11610.7	35.1
0°-40°	19125.2	57.8
0°-60°	30545.7	92.3
0°-90°	33053.8	99.9
90°-120°	6.0	0.0
90°-150°	16.6	0.1
90°-180°	25.0	0.1
0°-180°	33078.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	14634	
5°	14624	###
15°	14297	4036
25°	13402	6182
35°	12045	7515
45°	9458	7151
55°	4649	4269
65°	1807	1853
75°	527	589
85°	43	63
90°	5	4
95°	2	1
105°	2	2
115°	2	2
125°	3	3
135°	5	3
145°	7	4
155°	9	4
165°	12	3
175°	14	1
180°	15	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	14633.9
2.5°	14639.0
5°	14623.6
7.5°	14591.1
10°	14529.5
12.5°	14433.7
15°	14296.8
17.5°	14124.0
20°	13908.4
22.5°	13670.6
25°	13402.0
27.5°	13118.0
30°	12815.1
32.5°	12462.7
35°	12045.2
37.5°	11569.5
40°	11006.6
42.5°	10308.6
45°	9458.2
47.5°	8347.8
50°	7066.3
52.5°	5803.6
55°	4648.7
57.5°	3726.5
60°	2960.0
62.5°	2313.2
65°	1806.8
67.5°	1391.0
70°	1048.8
72.5°	764.8
75°	527.0
77.5°	333.6
80°	181.4
82.5°	87.3
85°	42.8
87.5°	18.8
90°	5.1
92.5°	1.7
95°	1.7
97.5°	1.7
100°	1.7
102.5°	1.7
105°	1.7
107.5°	1.7
110°	1.7



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	1.7
115°	1.7
117.5°	1.7
120°	3.4
122.5°	3.4
125°	3.4
127.5°	3.4
130°	3.4
132.5°	3.4
135°	5.1
137.5°	5.1
140°	5.1
142.5°	6.8
145°	6.8
147.5°	6.8
150°	6.8
152.5°	8.6
155°	8.6
157.5°	10.3
160°	10.3
162.5°	10.3
165°	12.0
167.5°	12.0
170°	12.0
172.5°	12.0
175°	13.7
177.5°	13.7
180°	15.4

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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	25.04	26.48	25.40	26.80	27.12	25.04	26.48	25.40	26.80	27.12
	3H	25.55	26.83	25.93	27.16	27.53	25.55	26.83	25.93	27.16	27.53
	4H	25.63	26.82	26.03	27.18	27.56	25.63	26.82	26.03	27.18	27.56
	6H	25.61	26.71	26.03	27.08	27.48	25.61	26.71	26.03	27.08	27.48
	8H	25.58	26.62	26.01	27.02	27.42	25.58	26.62	26.01	27.02	27.42
	12H	25.55	26.54	25.98	26.93	27.36	25.55	26.54	25.98	26.93	27.36
4H	2H	25.21	26.40	25.61	26.75	27.14	25.21	26.40	25.61	26.75	27.14
	3H	25.83	26.81	26.25	27.21	27.61	25.83	26.81	26.25	27.21	27.61
	4H	25.94	26.81	26.38	27.23	27.67	25.94	26.81	26.38	27.23	27.67
	6H	25.94	26.69	26.41	27.14	27.61	25.94	26.69	26.41	27.14	27.61
	8H	25.91	26.60	26.37	27.05	27.52	25.91	26.60	26.37	27.05	27.52
	12H	25.87	26.49	26.35	26.97	27.45	25.87	26.49	26.35	26.97	27.45
8H	4H	25.91	26.61	26.38	27.05	27.53	25.91	26.61	26.38	27.05	27.53
	6H	25.90	26.48	26.40	26.97	27.45	25.90	26.48	26.40	26.97	27.45
	8H	25.86	26.38	26.38	26.89	27.38	25.86	26.38	26.38	26.89	27.38
	12H	25.82	26.28	26.34	26.78	27.35	25.82	26.28	26.34	26.78	27.35
12H	4H	25.87	26.49	26.36	26.97	27.45	25.87	26.49	26.36	26.97	27.45
	6H	25.85	26.37	26.37	26.88	27.37	25.85	26.37	26.37	26.88	27.37
	8H	25.83	26.29	26.34	26.78	27.35	25.83	26.29	26.34	26.78	27.35