

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: P978930

Luminaire Tested: UHBS2-2436-W-L83065-LOW-6500K

Issue Date: 3/27/2025

Test Information

Test Method: LM-79-2019
Report Number: P978930
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-6500K
Description: UHBS2 LED High Bay at 6500K and LOW lumen setting
Light Source: -
Ballast/Driver: -

Summary

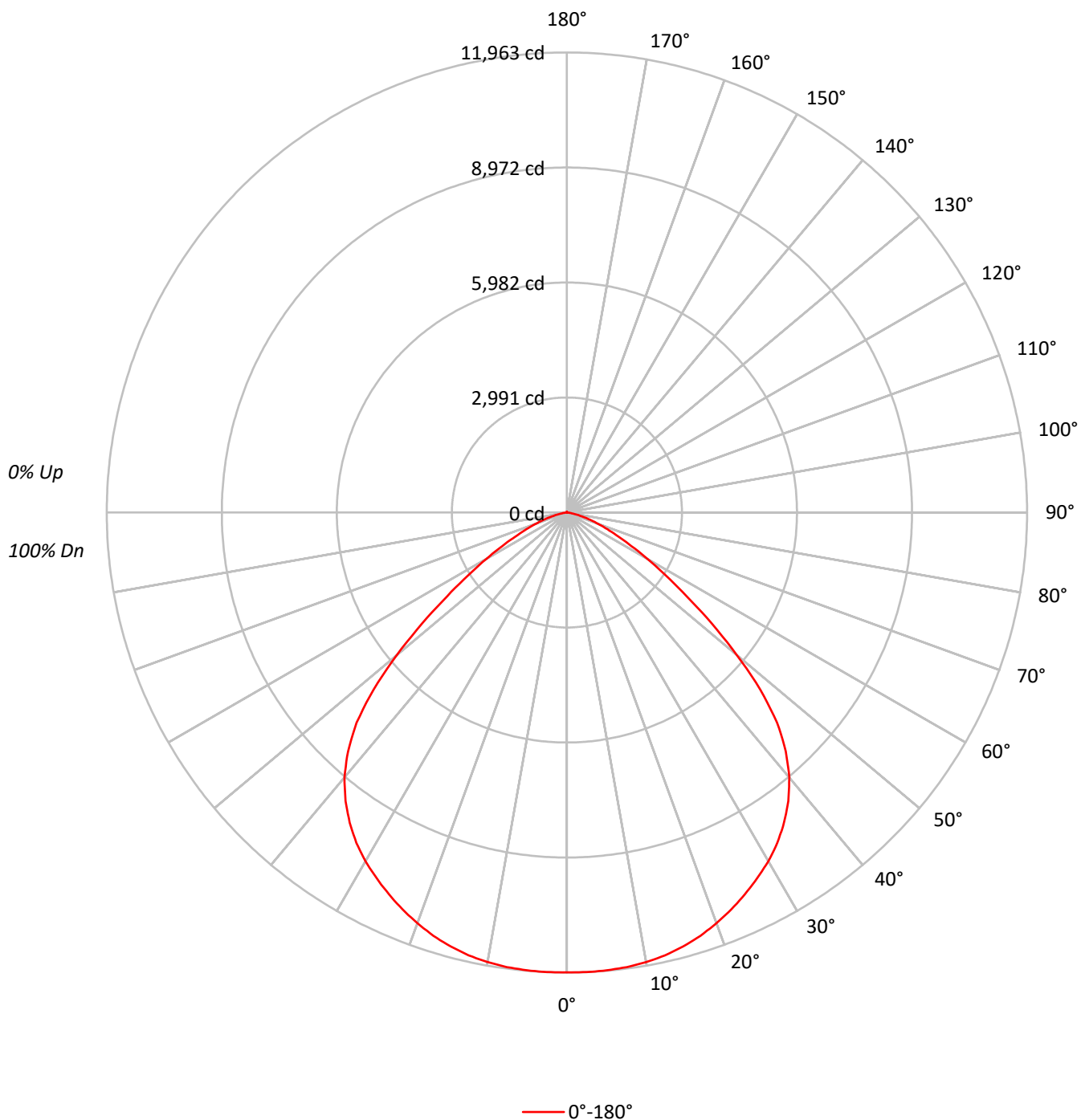
Lumens per Lamp: N/A
Luminaire Lumens: 27032.1 lumens
Efficiency: N/A
Efficacy: 175.3 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.3 / 1.36
Luminous Opening: Vertical Cylinder (Dia: 1.18' x H: 0.1')
CIE Type: Direct

Input Watts (W): 154.2
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°	118710
5°	117963
10°	117439
15°	116680
20°	115511
25°	114186
30°	112972
35°	110871
40°	106841
45°	97898
50°	78978
55°	56935
60°	40434
65°	28141
70°	19169
75°	11760
80°	5247
85°	1781

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 97898 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1138.4	4.2
10°-20°	3297.9	12.2
20°-30°	5051.9	18.7
30°-40°	6140.9	22.7
40°-50°	5844.1	21.6
50°-60°	3488.7	12.9
60°-70°	1514.3	5.6
70°-80°	481.5	1.8
80°-90°	53.8	0.2
90°-100°	1.9	0.0
100°-110°	1.5	0.0
110°-120°	1.6	0.0
120°-130°	2.5	0.0
130°-140°	2.8	0.0
140°-150°	3.4	0.0
150°-160°	3.4	0.0
160°-170°	2.6	0.0
170°-180°	1.0	0.0
0°-30°	9488.2	35.1
0°-40°	15629.0	57.8
0°-60°	24961.8	92.3
0°-90°	27011.4	99.9
90°-120°	5.0	0.0
90°-150°	13.7	0.1
90°-180°	21.0	0.1
0°-180°	27032.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11959	
5°	11950	###
15°	11683	3298
25°	10952	5052
35°	9843	6141
45°	7729	5844
55°	3799	3489
65°	1476	1514
75°	431	481
85°	35	51
90°	4	3
95°	1	1
105°	1	1
115°	1	2
125°	3	3
135°	4	3
145°	6	3
155°	7	3
165°	10	3
175°	11	1
180°	13	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	11958.7
2.5°	11962.9
5°	11950.4
7.5°	11923.8
10°	11873.5
12.5°	11795.2
15°	11683.3
17.5°	11542.1
20°	11365.9
22.5°	11171.6
25°	10952.0
27.5°	10719.9
30°	10472.5
32.5°	10184.4
35°	9843.3
37.5°	9454.6
40°	8994.6
42.5°	8424.1
45°	7729.2
47.5°	6821.8
50°	5774.5
52.5°	4742.7
55°	3798.9
57.5°	3045.3
60°	2418.9
62.5°	1890.4
65°	1476.5
67.5°	1136.7
70°	857.1
72.5°	625.0
75°	430.6
77.5°	272.6
80°	148.2
82.5°	71.3
85°	35.0
87.5°	15.4
90°	4.2
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°	2.8
122.5°	2.8
125°	2.8
127.5°	2.8
130°	2.8
132.5°	2.8
135°	4.2
137.5°	4.2
140°	4.2
142.5°	5.6
145°	5.6
147.5°	5.6
150°	5.6
152.5°	7.0
155°	7.0
157.5°	8.4
160°	8.4
162.5°	8.4
165°	9.8
167.5°	9.8
170°	9.8
172.5°	9.8
175°	11.2
177.5°	11.2
180°	12.6

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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	24.34	25.78	24.70	26.10	26.41	24.34	25.78	24.70	26.10	26.41
	3H	24.85	26.13	25.23	26.46	26.83	24.85	26.13	25.23	26.46	26.83
	4H	24.93	26.12	25.33	26.47	26.86	24.93	26.12	25.33	26.47	26.86
	6H	24.91	26.01	25.33	26.38	26.77	24.91	26.01	25.33	26.38	26.77
	8H	24.88	25.92	25.31	26.31	26.72	24.88	25.92	25.31	26.31	26.72
	12H	24.85	25.84	25.28	26.23	26.66	24.85	25.84	25.28	26.23	26.66
4H	2H	24.51	25.70	24.91	26.05	26.44	24.51	25.70	24.91	26.05	26.44
	3H	25.13	26.10	25.54	26.51	26.91	25.13	26.10	25.54	26.51	26.91
	4H	25.24	26.11	25.67	26.53	26.97	25.24	26.11	25.67	26.53	26.97
	6H	25.24	25.99	25.71	26.44	26.90	25.24	25.99	25.71	26.44	26.90
	8H	25.20	25.90	25.67	26.35	26.82	25.20	25.90	25.67	26.35	26.82
	12H	25.17	25.79	25.65	26.27	26.75	25.17	25.79	25.65	26.27	26.75
8H	4H	25.21	25.91	25.67	26.35	26.82	25.21	25.91	25.67	26.35	26.82
	6H	25.20	25.78	25.70	26.27	26.75	25.20	25.78	25.70	26.27	26.75
	8H	25.16	25.68	25.68	26.19	26.68	25.16	25.68	25.68	26.19	26.68
	12H	25.12	25.58	25.64	26.08	26.65	25.12	25.58	25.64	26.08	26.65
12H	4H	25.17	25.79	25.66	26.27	26.75	25.17	25.79	25.66	26.27	26.75
	6H	25.15	25.67	25.67	26.18	26.67	25.15	25.67	25.67	26.18	26.67
	8H	25.12	25.58	25.64	26.08	26.65	25.12	25.58	25.64	26.08	26.65

END OF REPORT