

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: P978929

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

Issue Date: 3/27/2025

Test Information

Test Method: LM-79-2019
Report Number: P978929
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-5000K
Description: UHBS2 LED High Bay at 5000K and LOW lumen setting
Light Source: -
Ballast/Driver: -

Summary

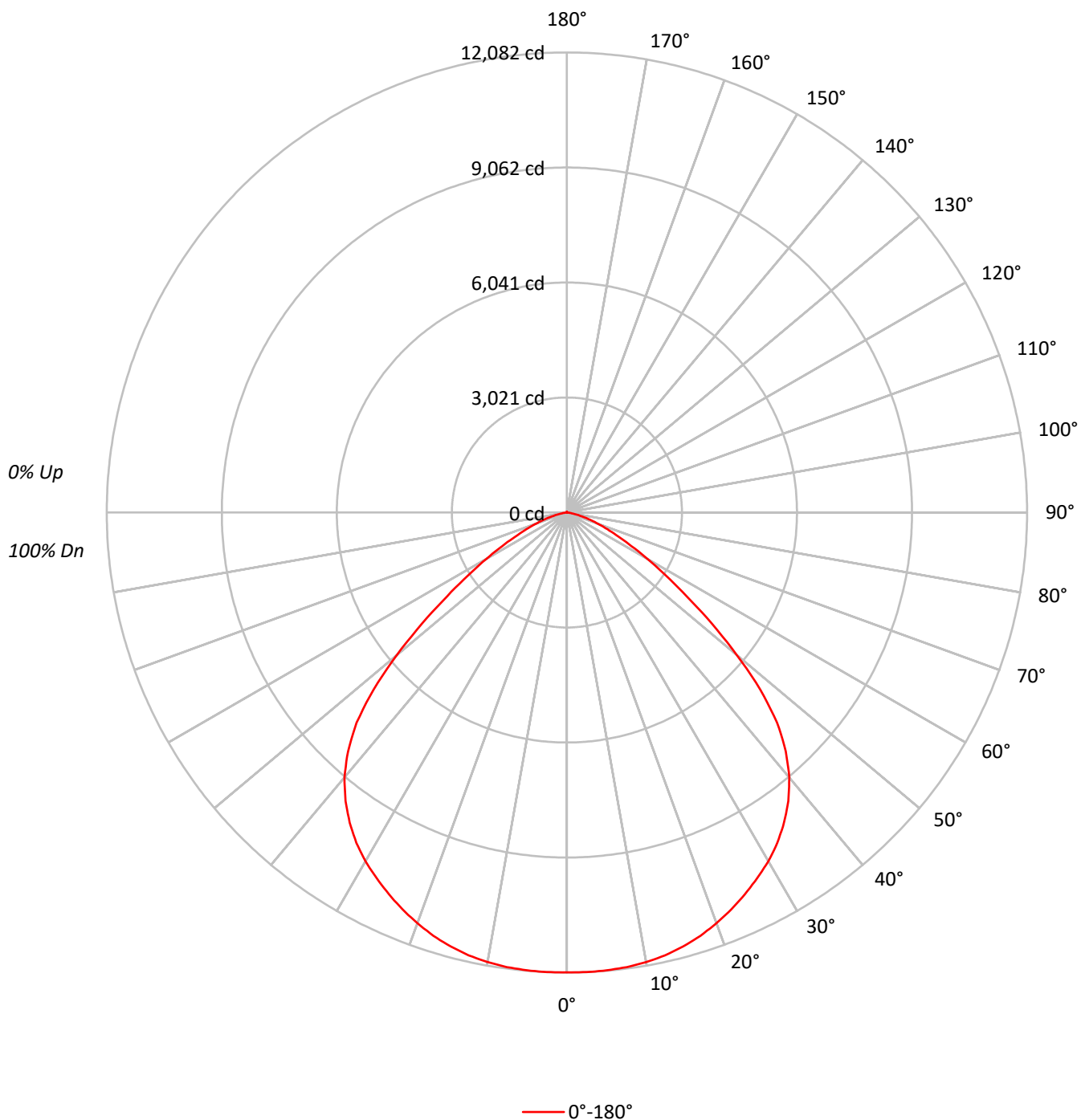
Lumens per Lamp: N/A
Luminaire Lumens: 27299.9 lumens
Efficiency: N/A
Efficacy: 177.6 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.3 / 1.36
Luminous Opening: Vertical Cylinder (Dia: 1.18' x H: 0.1')
CIE Type: Direct

Input Watts (W): 153.7
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°	119888
5°	119132
10°	118603
15°	117836
20°	116656
25°	115319
30°	114092
35°	111971
40°	107899
45°	98868
50°	79761
55°	57500
60°	40836
65°	28420
70°	19359
75°	11877
80°	5300
85°	1796

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 98868 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1149.6	4.2
10°-20°	3330.6	12.2
20°-30°	5102.0	18.7
30°-40°	6201.7	22.7
40°-50°	5902.0	21.6
50°-60°	3523.3	12.9
60°-70°	1529.3	5.6
70°-80°	486.3	1.8
80°-90°	54.3	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°	9582.2	35.1
0°-40°	15784.0	57.8
0°-60°	25209.3	92.3
0°-90°	27279.2	99.9
90°-120°	5.0	0.0
90°-150°	13.7	0.1
90°-180°	21.0	0.1
0°-180°	27299.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	12077	
5°	12069	###
15°	11799	3331
25°	11061	5102
35°	9941	6202
45°	7806	5902
55°	3837	3523
65°	1491	1529
75°	435	486
85°	35	52
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°	12077.3
2.5°	12081.5
5°	12068.8
7.5°	12042.0
10°	11991.2
12.5°	11912.1
15°	11799.1
17.5°	11656.5
20°	11478.6
22.5°	11282.3
25°	11060.6
27.5°	10826.2
30°	10576.3
32.5°	10285.4
35°	9940.9
37.5°	9548.3
40°	9083.7
42.5°	8507.6
45°	7805.8
47.5°	6889.4
50°	5831.8
52.5°	4789.7
55°	3836.6
57.5°	3075.5
60°	2442.9
62.5°	1909.1
65°	1491.1
67.5°	1148.0
70°	865.6
72.5°	631.2
75°	434.9
77.5°	275.4
80°	149.7
82.5°	72.0
85°	35.3
87.5°	15.5
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°	7.1
155°	7.1
157.5°	8.5
160°	8.5
162.5°	8.5
165°	9.9
167.5°	9.9
170°	9.9
172.5°	9.9
175°	11.3
177.5°	11.3
180°	12.7

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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	24.37	25.82	24.74	26.13	26.45	24.37	25.82	24.74	26.13	26.45
	3H	24.89	26.17	25.27	26.50	26.86	24.89	26.17	25.27	26.50	26.86
	4H	24.96	26.16	25.37	26.51	26.89	24.96	26.16	25.37	26.51	26.89
	6H	24.95	26.04	25.36	26.41	26.81	24.95	26.04	25.36	26.41	26.81
	8H	24.91	25.96	25.34	26.35	26.75	24.91	25.96	25.34	26.35	26.75
	12H	24.88	25.88	25.31	26.26	26.69	24.88	25.88	25.31	26.26	26.69
4H	2H	24.54	25.74	24.94	26.09	26.47	24.54	25.74	24.94	26.09	26.47
	3H	25.17	26.14	25.58	26.54	26.95	25.17	26.14	25.58	26.54	26.95
	4H	25.27	26.14	25.71	26.56	27.00	25.27	26.14	25.71	26.56	27.00
	6H	25.28	26.03	25.74	26.47	26.94	25.28	26.03	25.74	26.47	26.94
	8H	25.24	25.94	25.71	26.38	26.86	25.24	25.94	25.71	26.38	26.86
	12H	25.20	25.82	25.69	26.31	26.78	25.20	25.82	25.69	26.31	26.78
8H	4H	25.24	25.94	25.71	26.39	26.86	25.24	25.94	25.71	26.39	26.86
	6H	25.24	25.81	25.74	26.31	26.79	25.24	25.81	25.74	26.31	26.79
	8H	25.19	25.71	25.71	26.22	26.72	25.19	25.71	25.71	26.22	26.72
	12H	25.16	25.62	25.67	26.11	26.68	25.16	25.62	25.67	26.11	26.68
12H	4H	25.20	25.83	25.69	26.31	26.78	25.20	25.83	25.69	26.31	26.78
	6H	25.18	25.70	25.70	26.22	26.71	25.18	25.70	25.70	26.22	26.71
	8H	25.16	25.62	25.67	26.11	26.68	25.16	25.62	25.67	26.11	26.68

END OF REPORT