

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: P978881

Luminaire Tested: UHBS2-1218-W-L83065-LOW-3000K

Issue Date: 3/27/2025

Test Information

Test Method: LM-79-2019
Report Number: P978881
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: UHBS2-1218-W-L83065-LOW-3000K
Description: UHBS2 LED High Bay at 3000K and LOW lumen setting
Light Source: -
Ballast/Driver: -

Summary

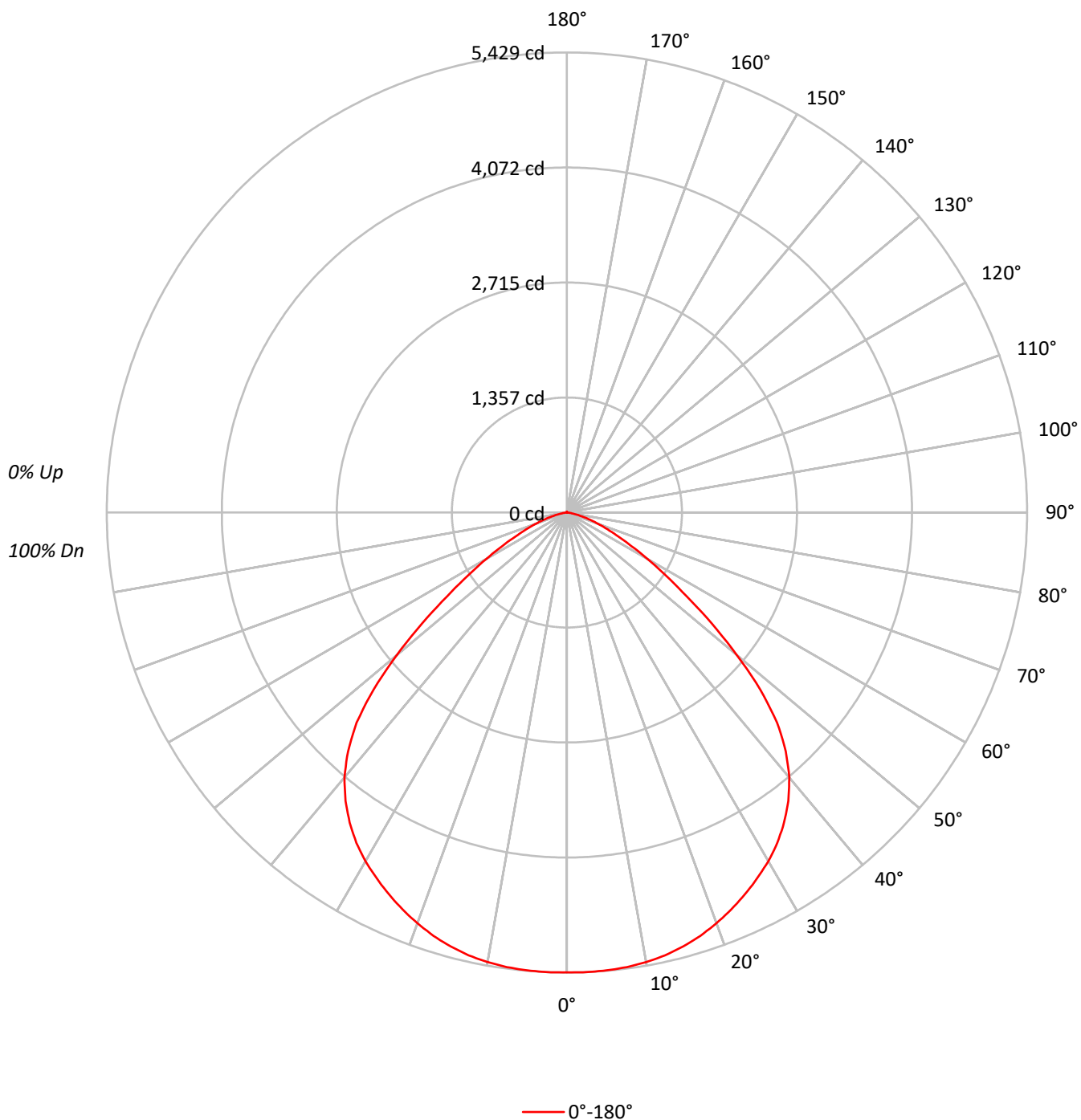
Lumens per Lamp: N/A
Luminaire Lumens: 12267.9 lumens
Efficiency: N/A
Efficacy: 153.0 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.3 / 1.36
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.1')
CIE Type: Direct

Input Watts (W): 80.2
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 7.2
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°	74381
5°	73791
10°	73344
15°	72750
20°	71898
25°	70949
30°	70062
35°	68622
40°	65980
45°	60309
50°	48515
55°	34857
60°	24654
65°	17070
70°	11548
75°	7014
80°	3084
85°	1018

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 60309 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	516.6	4.2
10°-20°	1496.7	12.2
20°-30°	2292.7	18.7
30°-40°	2786.9	22.7
40°-50°	2652.2	21.6
50°-60°	1583.3	12.9
60°-70°	687.2	5.6
70°-80°	218.5	1.8
80°-90°	24.4	0.2
90°-100°	0.8	0.0
100°-110°	0.6	0.0
110°-120°	0.7	0.0
120°-130°	1.2	0.0
130°-140°	1.3	0.0
140°-150°	1.5	0.0
150°-160°	1.5	0.0
160°-170°	1.2	0.0
170°-180°	0.4	0.0
0°-30°	4306.1	35.1
0°-40°	7093.0	57.8
0°-60°	11328.5	92.3
0°-90°	12258.7	99.9
90°-120°	2.1	0.0
90°-150°	6.1	0.0
90°-180°	9.0	0.1
0°-180°	12267.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5427	
5°	5424	517
15°	5302	1497
25°	4970	2293
35°	4467	2787
45°	3508	2652
55°	1724	1583
65°	670	687
75°	195	218
85°	16	23
90°	2	2
95°	1	0
105°	1	1
115°	1	1
125°	1	1
135°	2	1
145°	2	2
155°	3	2
165°	4	1
175°	5	0
180°	6	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	5427.3
2.5°	5429.2
5°	5423.5
7.5°	5411.4
10°	5388.6
12.5°	5353.0
15°	5302.3
17.5°	5238.2
20°	5158.2
22.5°	5070.0
25°	4970.4
27.5°	4865.1
30°	4752.7
32.5°	4622.0
35°	4467.2
37.5°	4290.8
40°	4082.0
42.5°	3823.1
45°	3507.8
47.5°	3095.9
50°	2620.7
52.5°	2152.4
55°	1724.1
57.5°	1382.0
60°	1097.8
62.5°	857.9
65°	670.1
67.5°	515.9
70°	389.0
72.5°	283.6
75°	195.4
77.5°	123.7
80°	67.3
82.5°	32.4
85°	15.9
87.5°	7.0
90°	1.9
92.5°	0.6
95°	0.6
97.5°	0.6
100°	0.6
102.5°	0.6
105°	0.6
107.5°	0.6
110°	0.6



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	0.6
115°	0.6
117.5°	0.6
120°	1.3
122.5°	1.3
125°	1.3
127.5°	1.3
130°	1.3
132.5°	1.3
135°	1.9
137.5°	1.9
140°	1.9
142.5°	2.5
145°	2.5
147.5°	2.5
150°	2.5
152.5°	3.2
155°	3.2
157.5°	3.8
160°	3.8
162.5°	3.8
165°	4.4
167.5°	4.4
170°	4.4
172.5°	4.4
175°	5.1
177.5°	5.1
180°	5.7

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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	22.61	24.05	22.97	24.37	24.68	22.61	24.05	22.97	24.37	24.68
	3H	23.11	24.40	23.49	24.73	25.09	23.11	24.40	23.49	24.73	25.09
	4H	23.19	24.38	23.59	24.73	25.12	23.19	24.38	23.59	24.73	25.12
	6H	23.17	24.27	23.58	24.64	25.03	23.17	24.27	23.58	24.64	25.03
	8H	23.14	24.18	23.57	24.57	24.98	23.14	24.18	23.57	24.57	24.98
	12H	23.10	24.10	23.54	24.48	24.92	23.10	24.10	23.54	24.48	24.92
4H	2H	22.77	23.97	23.17	24.32	24.70	22.77	23.97	23.17	24.32	24.70
	3H	23.39	24.36	23.80	24.76	25.17	23.39	24.36	23.80	24.76	25.17
	4H	23.49	24.36	23.93	24.78	25.22	23.49	24.36	23.93	24.78	25.22
	6H	23.49	24.24	23.96	24.69	25.16	23.49	24.24	23.96	24.69	25.16
	8H	23.45	24.15	23.92	24.60	25.07	23.45	24.15	23.92	24.60	25.07
	12H	23.42	24.04	23.90	24.52	25.00	23.42	24.04	23.90	24.52	25.00
8H	4H	23.46	24.16	23.92	24.60	25.07	23.46	24.16	23.92	24.60	25.07
	6H	23.45	24.02	23.95	24.52	25.00	23.45	24.02	23.95	24.52	25.00
	8H	23.41	23.92	23.93	24.44	24.93	23.41	23.92	23.93	24.44	24.93
	12H	23.37	23.83	23.88	24.33	24.90	23.37	23.83	23.88	24.33	24.90
12H	4H	23.42	24.04	23.91	24.52	25.00	23.42	24.04	23.91	24.52	25.00
	6H	23.40	23.92	23.92	24.43	24.92	23.40	23.92	23.92	24.43	24.92
	8H	23.37	23.83	23.89	24.33	24.90	23.37	23.83	23.89	24.33	24.90