

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: P978853

Luminaire Tested: UHBS2-1218-M-L83065-LOW-4000K

Issue Date: 3/27/2025

Test Information

Test Method: LM-79-2019
Report Number: P978853
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2405-087-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/27/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: UHBS2-1218-M-L83065-LOW-4000K
Description: UHBS2 LED High Bay at 4000K and LOW lumen setting
Light Source: -
Ballast/Driver: -

Summary

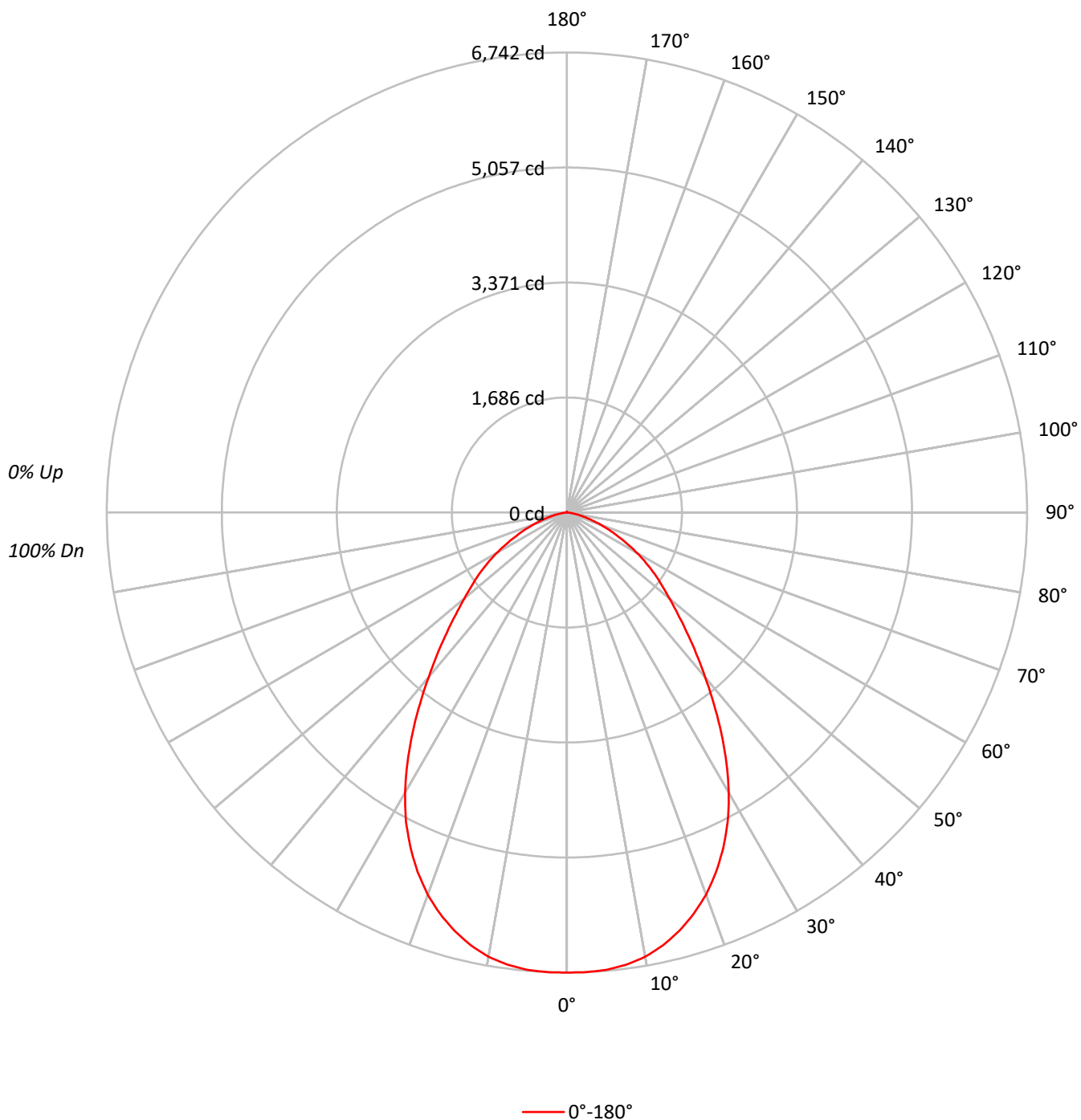
Lumens per Lamp: N/A
Luminaire Lumens: 11907.9 lumens
Efficiency: N/A
Efficacy: 151.5 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.11
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.1')
CIE Type: Direct

Input Watts (W): 78.6
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		93
2	103	96	90	86	100	94	89	85	91	86	83		88	84	81		85
3	95	86	79	74	93	85	78	73	82	77	72		79	75	71		77
4	88	78	70	65	86	77	70	64	74	68	63		72	67	63		70
5	82	71	63	57	80	70	62	57	68	61	56		66	60	56		64
6	76	65	57	51	75	64	56	51	62	56	51		61	55	50		59
7	71	59	52	46	70	59	51	46	57	51	46		56	50	45		55
8	67	55	47	42	66	54	47	42	53	46	42		52	46	41		51
9	63	51	43	38	62	50	43	38	49	43	38		48	42	38		47
10	59	47	40	35	58	47	40	35	46	39	35		45	39	35		44

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	92401
5°	91505
10°	89992
15°	87129
20°	83079
25°	77374
30°	69918
35°	60562
40°	50908
45°	42709
50°	36251
55°	31612
60°	26650
65°	21028
70°	15858
75°	10489
80°	5756
85°	2267

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 42709 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	638.4	5.4
10°-20°	1783.8	15.0
20°-30°	2481.2	20.8
30°-40°	2457.9	20.6
40°-50°	1932.2	16.2
50°-60°	1398.7	11.7
60°-70°	830.7	7.0
70°-80°	322.9	2.7
80°-90°	50.9	0.4
90°-100°	1.5	0.0
100°-110°	1.0	0.0
110°-120°	0.9	0.0
120°-130°	0.9	0.0
130°-140°	1.5	0.0
140°-150°	1.7	0.0
150°-160°	1.8	0.0
160°-170°	1.5	0.0
170°-180°	0.6	0.0
0°-30°	4903.4	41.2
0°-40°	7361.2	61.8
0°-60°	10692.1	89.8
0°-90°	11896.7	99.9
90°-120°	3.3	0.0
90°-150°	7.4	0.1
90°-180°	11.0	0.1
0°-180°	11907.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6742	
5°	6725	638
15°	6350	1784
25°	5420	2481
35°	3942	2458
45°	2484	1932
55°	1564	1399
65°	826	831
75°	292	323
85°	35	48
90°	5	3
95°	1	1
105°	1	1
115°	1	1
125°	1	1
135°	2	1
145°	3	2
155°	4	2
165°	6	1
175°	6	1
180°	6	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	6742.1
2.5°	6742.1
5°	6725.4
7.5°	6683.5
10°	6611.8
12.5°	6496.4
15°	6350.3
17.5°	6170.7
20°	5960.3
22.5°	5707.2
25°	5420.5
27.5°	5105.0
30°	4742.9
32.5°	4351.1
35°	3942.5
37.5°	3535.8
40°	3149.5
42.5°	2803.3
45°	2484.1
47.5°	2203.9
50°	1958.2
52.5°	1753.5
55°	1563.6
57.5°	1375.6
60°	1186.7
62.5°	999.6
65°	825.5
67.5°	678.5
70°	534.2
72.5°	404.9
75°	292.2
77.5°	200.1
80°	125.6
82.5°	71.7
85°	35.4
87.5°	14.9
90°	4.7
92.5°	0.9
95°	0.9
97.5°	0.9
100°	0.9
102.5°	0.9
105°	0.9
107.5°	0.9
110°	0.9



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	0.9
115°	0.9
117.5°	0.9
120°	0.9
122.5°	0.9
125°	0.9
127.5°	0.9
130°	1.9
132.5°	1.9
135°	1.9
137.5°	1.9
140°	1.9
142.5°	2.8
145°	2.8
147.5°	2.8
150°	2.8
152.5°	3.7
155°	3.7
157.5°	4.7
160°	4.7
162.5°	4.7
165°	5.6
167.5°	5.6
170°	5.6
172.5°	5.6
175°	6.5
177.5°	6.5
180°	6.5

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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	22.76	24.17	23.12	24.48	24.80	22.76	24.17	23.12	24.48	24.80
	3H	23.68	24.94	24.06	25.27	25.63	23.68	24.94	24.06	25.27	25.63
	4H	23.87	25.05	24.28	25.40	25.78	23.87	25.05	24.28	25.40	25.78
	6H	23.92	25.00	24.34	25.37	25.77	23.92	25.00	24.34	25.37	25.77
	8H	23.91	24.93	24.34	25.32	25.73	23.91	24.93	24.34	25.32	25.73
	12H	23.88	24.86	24.31	25.24	25.67	23.88	24.86	24.31	25.24	25.67
4H	2H	23.07	24.24	23.47	24.60	24.98	23.07	24.24	23.47	24.60	24.98
	3H	24.13	25.09	24.54	25.50	25.90	24.13	25.09	24.54	25.50	25.90
	4H	24.37	25.24	24.81	25.66	26.10	24.37	25.24	24.81	25.66	26.10
	6H	24.47	25.21	24.93	25.66	26.12	24.47	25.21	24.93	25.66	26.12
	8H	24.45	25.15	24.92	25.59	26.06	24.45	25.15	24.92	25.59	26.06
	12H	24.43	25.04	24.91	25.53	26.00	24.43	25.04	24.91	25.53	26.00
8H	4H	24.40	25.10	24.87	25.55	26.02	24.40	25.10	24.87	25.55	26.02
	6H	24.51	25.08	25.01	25.57	26.06	24.51	25.08	25.01	25.57	26.06
	8H	24.50	25.01	25.02	25.53	26.02	24.50	25.01	25.02	25.53	26.02
	12H	24.49	24.94	25.00	25.43	26.00	24.49	24.94	25.00	25.43	26.00
12H	4H	24.37	24.99	24.86	25.47	25.95	24.37	24.99	24.86	25.47	25.95
	6H	24.47	24.98	24.99	25.50	25.99	24.47	24.98	24.99	25.50	25.99
	8H	24.49	24.93	25.00	25.43	26.00	24.49	24.93	25.00	25.43	26.00