

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: P978855

Luminaire Tested: UHBS2-1218-M-L83065-LOW-6500K

Issue Date: 3/27/2025

Test Information

Test Method: LM-79-2019
Report Number: P978855
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-6500K
Description: UHBS2 LED High Bay at 6500K and LOW lumen setting
Light Source: -
Ballast/Driver: -

Summary

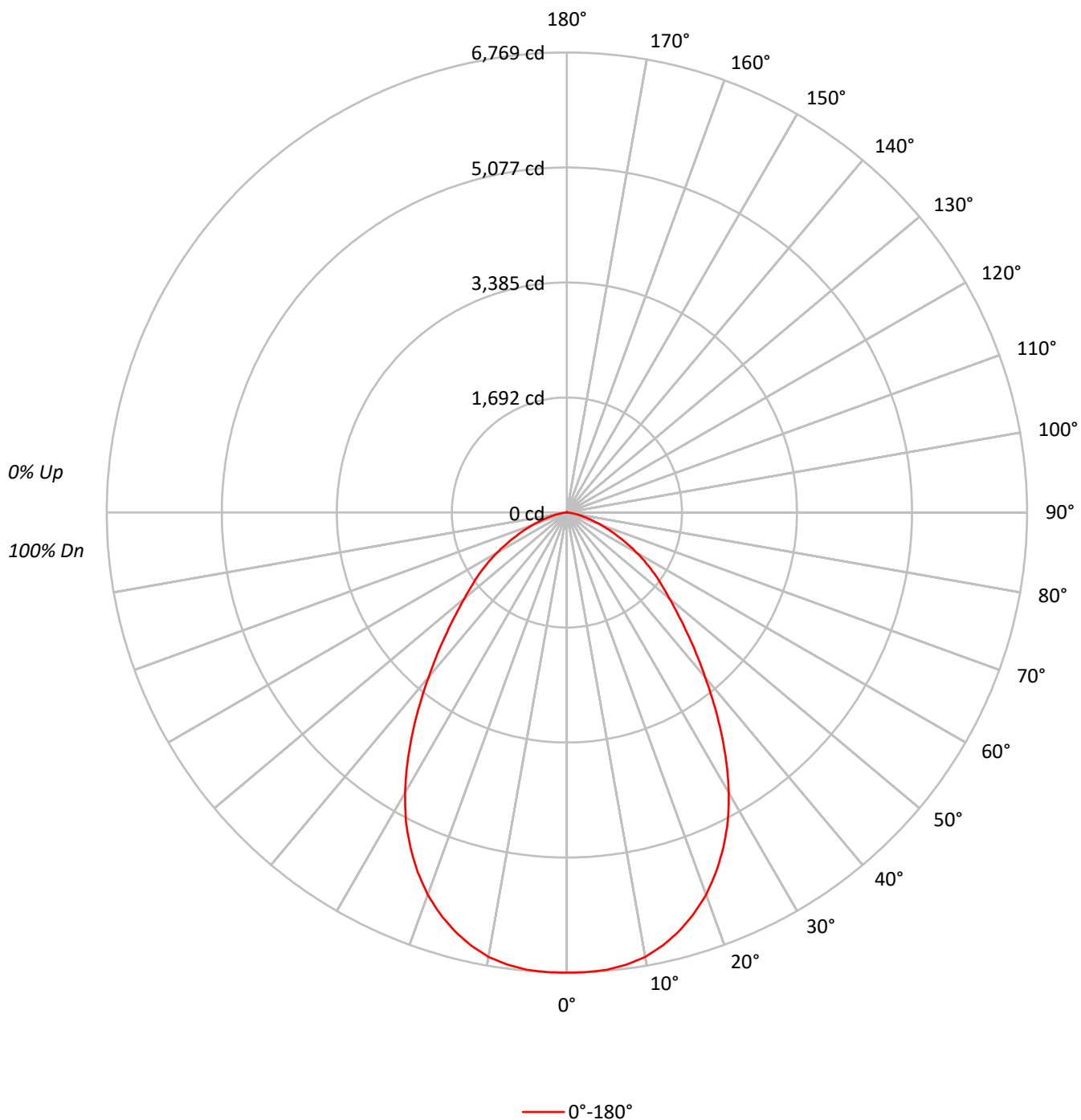
Lumens per Lamp: N/A
Luminaire Lumens: 11955.9 lumens
Efficiency: N/A
Efficacy: 148.7 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.11
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.1')
CIE Type: Direct

Input Watts (W): 80.4
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°	92774
5°	91873
10°	90356
15°	87480
20°	83413
25°	77685
30°	70201
35°	60806
40°	51113
45°	42881
50°	36397
55°	31740
60°	26756
65°	21115
70°	15924
75°	10532
80°	5784
85°	2274

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 42881 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	640.9	5.4
10°-20°	1791.0	15.0
20°-30°	2491.2	20.8
30°-40°	2467.8	20.6
40°-50°	1940.0	16.2
50°-60°	1404.3	11.7
60°-70°	834.0	7.0
70°-80°	324.3	2.7
80°-90°	51.1	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°	4923.1	41.2
0°-40°	7390.9	61.8
0°-60°	10735.2	89.8
0°-90°	11944.6	99.9
90°-120°	3.3	0.0
90°-150°	7.4	0.1
90°-180°	11.0	0.1
0°-180°	11955.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6769	
5°	6752	641
15°	6376	1791
25°	5442	2491
35°	3958	2468
45°	2494	1940
55°	1570	1404
65°	829	834
75°	293	324
85°	36	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°	6769.3
2.5°	6769.3
5°	6752.5
7.5°	6710.4
10°	6638.5
12.5°	6522.6
15°	6375.9
17.5°	6195.5
20°	5984.3
22.5°	5730.2
25°	5442.3
27.5°	5125.6
30°	4762.1
32.5°	4368.6
35°	3958.4
37.5°	3550.0
40°	3162.2
42.5°	2814.6
45°	2494.1
47.5°	2212.8
50°	1966.1
52.5°	1760.5
55°	1569.9
57.5°	1381.1
60°	1191.4
62.5°	1003.6
65°	828.9
67.5°	681.2
70°	536.4
72.5°	406.5
75°	293.4
77.5°	200.9
80°	126.2
82.5°	72.0
85°	35.5
87.5°	15.0
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	22.77	24.18	23.14	24.50	24.81	22.77	24.18	23.14	24.50	24.81
	3H	23.69	24.95	24.07	25.28	25.65	23.69	24.95	24.07	25.28	25.65
	4H	23.89	25.06	24.29	25.41	25.80	23.89	25.06	24.29	25.41	25.80
	6H	23.94	25.01	24.35	25.39	25.78	23.94	25.01	24.35	25.39	25.78
	8H	23.92	24.94	24.35	25.34	25.74	23.92	24.94	24.35	25.34	25.74
	12H	23.89	24.87	24.32	25.26	25.69	23.89	24.87	24.32	25.26	25.69
4H	2H	23.08	24.26	23.49	24.61	24.99	23.08	24.26	23.49	24.61	24.99
	3H	24.14	25.11	24.56	25.51	25.92	24.14	25.11	24.56	25.51	25.92
	4H	24.39	25.25	24.82	25.67	26.11	24.39	25.25	24.82	25.67	26.11
	6H	24.48	25.23	24.94	25.67	26.14	24.48	25.23	24.94	25.67	26.14
	8H	24.46	25.16	24.93	25.61	26.08	24.46	25.16	24.93	25.61	26.08
	12H	24.44	25.06	24.93	25.54	26.01	24.44	25.06	24.93	25.54	26.01
8H	4H	24.42	25.11	24.89	25.56	26.03	24.42	25.11	24.89	25.56	26.03
	6H	24.52	25.09	25.03	25.59	26.07	24.52	25.09	25.03	25.59	26.07
	8H	24.52	25.02	25.04	25.54	26.03	24.52	25.02	25.04	25.54	26.03
	12H	24.50	24.95	25.02	25.45	26.02	24.50	24.95	25.02	25.45	26.02
12H	4H	24.39	25.00	24.87	25.49	25.96	24.39	25.00	24.87	25.49	25.96
	6H	24.48	24.99	25.01	25.51	26.00	24.48	24.99	25.01	25.51	26.00
	8H	24.50	24.95	25.01	25.44	26.01	24.50	24.95	25.01	25.44	26.01