

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: P978857

Luminaire Tested: UHBS2-1218-M-L83065-MID-3500K

Issue Date: 3/27/2025

Test Information

Test Method: LM-79-2019
Report Number: P978857
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-MID-3500K
Description: UHBS2 LED High Bay at 3500K and MID lumen setting
Light Source: -
Ballast/Driver: -

Summary

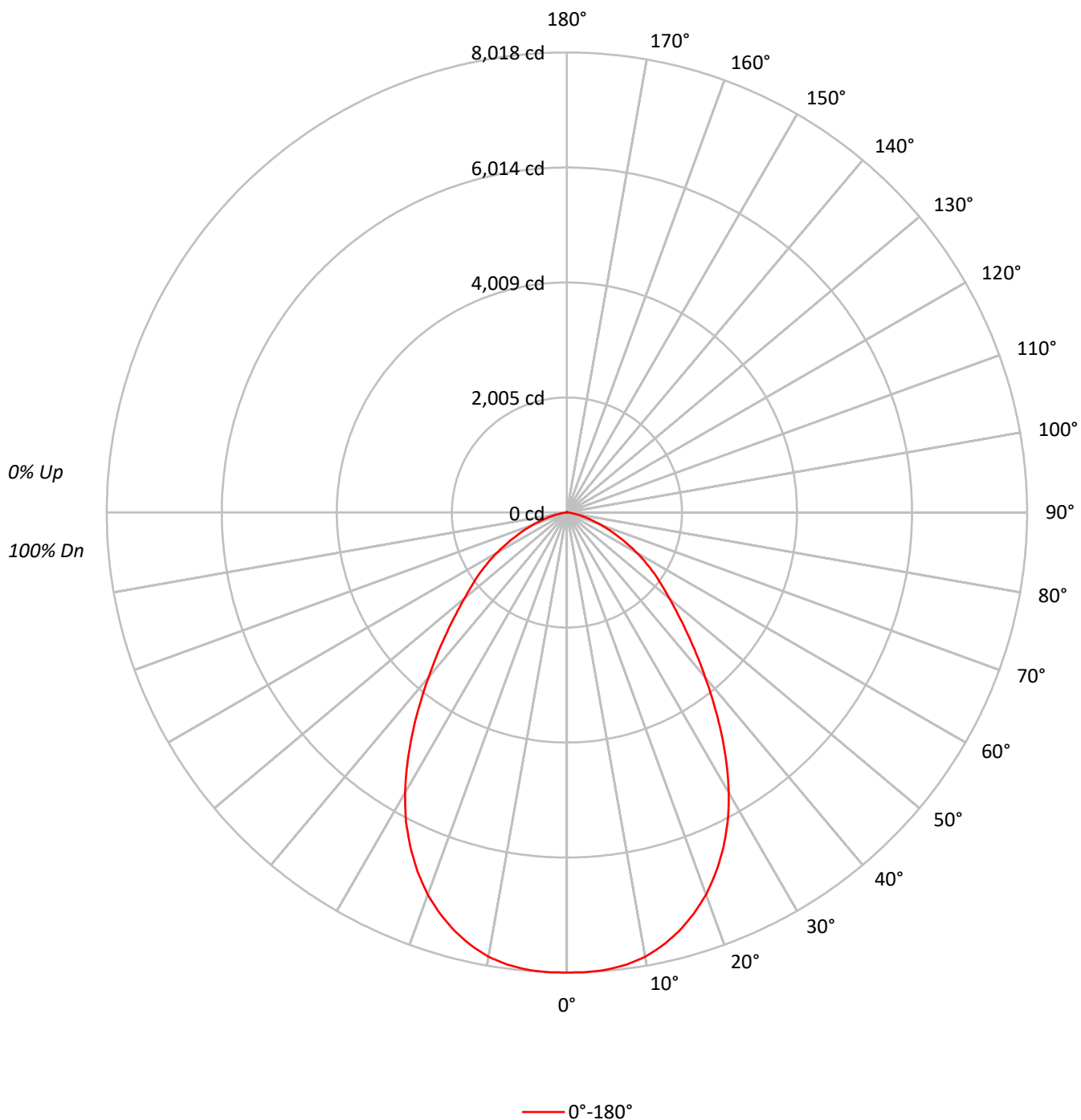
Lumens per Lamp: N/A
Luminaire Lumens: 14160.9 lumens
Efficiency: N/A
Efficacy: 145.1 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.11
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.1')
CIE Type: Direct

Input Watts (W): 97.6
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 7.15
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°	109883
5°	108817
10°	107020
15°	103614
20°	98797
25°	92014
30°	83147
35°	72020
40°	60540
45°	50789
50°	43109
55°	37593
60°	31692
65°	25007
70°	18860
75°	12474
80°	6847
85°	2696

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 50789 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	759.1	5.4
10°-20°	2121.3	15.0
20°-30°	2950.7	20.8
30°-40°	2922.9	20.6
40°-50°	2297.8	16.2
50°-60°	1663.3	11.7
60°-70°	987.9	7.0
70°-80°	384.1	2.7
80°-90°	60.5	0.4
90°-100°	1.8	0.0
100°-110°	1.2	0.0
110°-120°	1.1	0.0
120°-130°	1.1	0.0
130°-140°	1.7	0.0
140°-150°	2.0	0.0
150°-160°	2.1	0.0
160°-170°	1.7	0.0
170°-180°	0.7	0.0
0°-30°	5831.1	41.2
0°-40°	8754.0	61.8
0°-60°	12715.1	89.8
0°-90°	14147.5	99.9
90°-120°	4.1	0.0
90°-150°	8.8	0.1
90°-180°	13.0	0.1
0°-180°	14160.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8018	
5°	7998	759
15°	7552	2121
25°	6446	2951
35°	4688	2923
45°	2954	2298
55°	1859	1663
65°	982	988
75°	348	384
85°	42	57
90°	6	4
95°	1	1
105°	1	1
115°	1	1
125°	1	1
135°	2	2
145°	3	2
155°	4	2
165°	7	2
175°	8	1
180°	8	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	8017.7
2.5°	8017.7
5°	7997.8
7.5°	7948.0
10°	7862.8
12.5°	7725.5
15°	7551.8
17.5°	7338.2
20°	7088.0
22.5°	6787.0
25°	6446.1
27.5°	6070.9
30°	5640.3
32.5°	5174.3
35°	4688.4
37.5°	4204.8
40°	3745.4
42.5°	3333.7
45°	2954.1
47.5°	2620.9
50°	2328.7
52.5°	2085.2
55°	1859.4
57.5°	1635.9
60°	1411.2
62.5°	1188.7
65°	981.7
67.5°	806.9
70°	635.3
72.5°	481.5
75°	347.5
77.5°	238.0
80°	149.4
82.5°	85.2
85°	42.1
87.5°	17.7
90°	5.5
92.5°	1.1
95°	1.1
97.5°	1.1
100°	1.1
102.5°	1.1
105°	1.1
107.5°	1.1
110°	1.1



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	1.1
115°	1.1
117.5°	1.1
120°	1.1
122.5°	1.1
125°	1.1
127.5°	1.1
130°	2.2
132.5°	2.2
135°	2.2
137.5°	2.2
140°	2.2
142.5°	3.3
145°	3.3
147.5°	3.3
150°	3.3
152.5°	4.4
155°	4.4
157.5°	5.5
160°	5.5
162.5°	5.5
165°	6.6
167.5°	6.6
170°	6.6
172.5°	6.6
175°	7.7
177.5°	7.7
180°	7.7

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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	23.36	24.77	23.73	25.09	25.40	23.36	24.77	23.73	25.09	25.40
	3H	24.28	25.54	24.66	25.87	26.23	24.28	25.54	24.66	25.87	26.23
	4H	24.48	25.65	24.88	26.00	26.38	24.48	25.65	24.88	26.00	26.38
	6H	24.52	25.60	24.94	25.97	26.37	24.52	25.60	24.94	25.97	26.37
	8H	24.51	25.53	24.94	25.92	26.33	24.51	25.53	24.94	25.92	26.33
	12H	24.48	25.46	24.91	25.84	26.28	24.48	25.46	24.91	25.84	26.28
4H	2H	23.67	24.85	24.08	25.20	25.58	23.67	24.85	24.08	25.20	25.58
	3H	24.73	25.70	25.15	26.10	26.50	24.73	25.70	25.15	26.10	26.50
	4H	24.98	25.84	25.41	26.26	26.70	24.98	25.84	25.41	26.26	26.70
	6H	25.07	25.81	25.53	26.26	26.73	25.07	25.81	25.53	26.26	26.73
	8H	25.05	25.75	25.52	26.20	26.67	25.05	25.75	25.52	26.20	26.67
	12H	25.03	25.64	25.51	26.13	26.60	25.03	25.64	25.51	26.13	26.60
8H	4H	25.01	25.70	25.47	26.15	26.62	25.01	25.70	25.47	26.15	26.62
	6H	25.11	25.68	25.61	26.18	26.66	25.11	25.68	25.61	26.18	26.66
	8H	25.10	25.61	25.62	26.13	26.62	25.10	25.61	25.62	26.13	26.62
	12H	25.09	25.54	25.60	26.03	26.60	25.09	25.54	25.60	26.03	26.60
12H	4H	24.98	25.59	25.46	26.08	26.55	24.98	25.59	25.46	26.08	26.55
	6H	25.07	25.58	25.59	26.10	26.59	25.07	25.58	25.59	26.10	26.59
	8H	25.09	25.54	25.60	26.03	26.60	25.09	25.54	25.60	26.03	26.60