

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: P978860

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

Issue Date: 3/27/2025

Test Information

Test Method: LM-79-2019
Report Number: P978860
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-6500K
Description: UHBS2 LED High Bay at 6500K and MID lumen setting
Light Source: -
Ballast/Driver: -

Summary

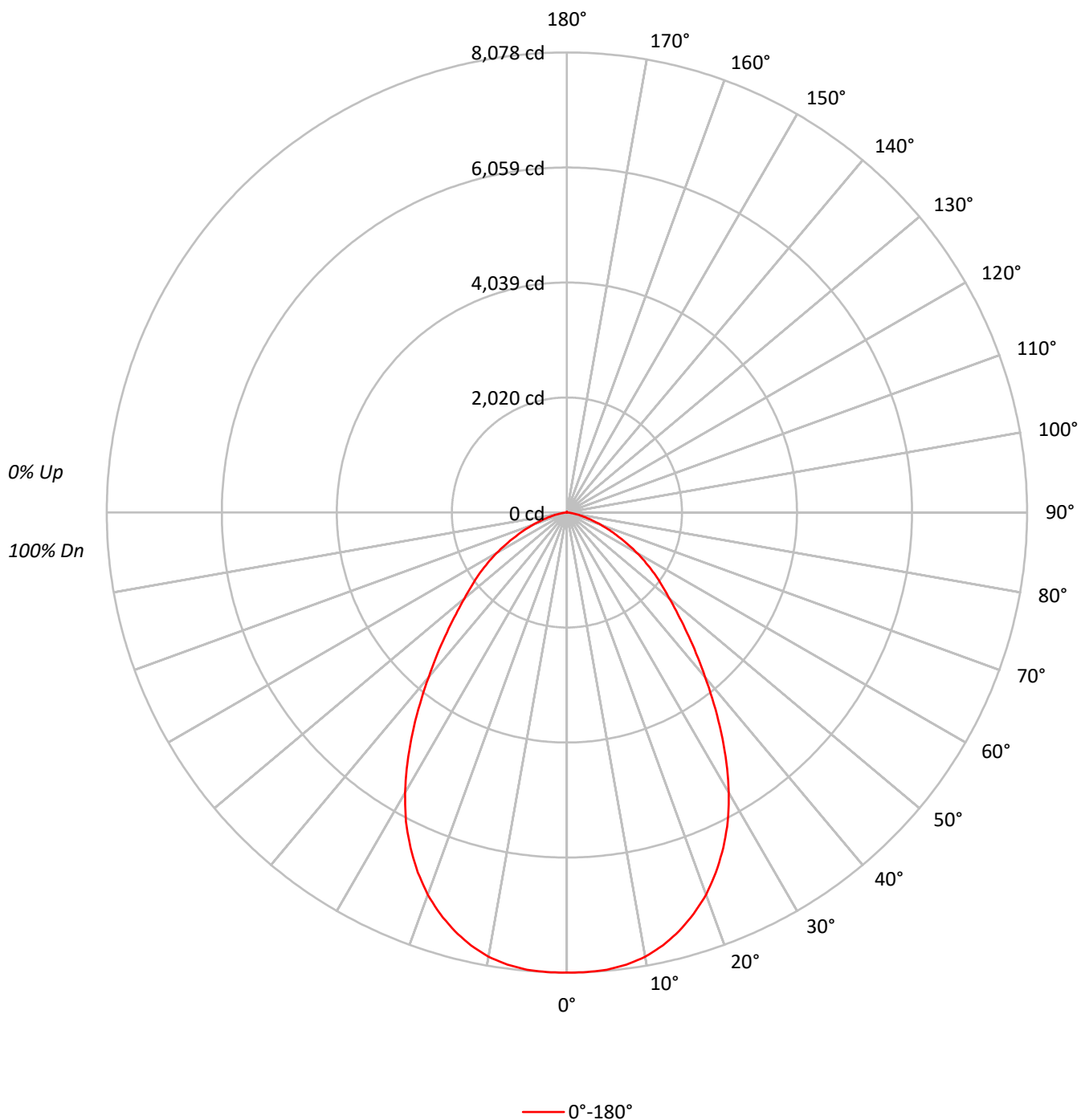
Lumens per Lamp: N/A
Luminaire Lumens: 14267.9 lumens
Efficiency: N/A
Efficacy: 144.6 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.11
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.1')
CIE Type: Direct

Input Watts (W): 98.7
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°	110713
5°	109639
10°	107828
15°	104396
20°	99544
25°	92709
30°	83775
35°	72565
40°	60997
45°	51173
50°	43435
55°	37878
60°	31930
65°	25198
70°	19002
75°	12571
80°	6897
85°	2715

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 51173 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	764.9	5.4
10°-20°	2137.3	15.0
20°-30°	2973.0	20.8
30°-40°	2945.0	20.6
40°-50°	2315.2	16.2
50°-60°	1675.8	11.7
60°-70°	995.4	7.0
70°-80°	387.0	2.7
80°-90°	60.9	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°	2.2	0.0
160°-170°	1.8	0.0
170°-180°	0.7	0.0
0°-30°	5875.1	41.2
0°-40°	8820.1	61.8
0°-60°	12811.1	89.8
0°-90°	14254.4	99.9
90°-120°	4.1	0.0
90°-150°	8.9	0.1
90°-180°	13.0	0.1
0°-180°	14267.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8078	
5°	8058	765
15°	7609	2137
25°	6495	2973
35°	4724	2945
45°	2976	2315
55°	1874	1676
65°	989	995
75°	350	387
85°	42	58
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°	8078.3
2.5°	8078.3
5°	8058.2
7.5°	8008.1
10°	7922.2
12.5°	7783.9
15°	7608.8
17.5°	7393.6
20°	7141.6
22.5°	6838.2
25°	6494.8
27.5°	6116.7
30°	5682.9
32.5°	5213.4
35°	4723.9
37.5°	4236.5
40°	3773.7
42.5°	3358.9
45°	2976.4
47.5°	2640.7
50°	2346.3
52.5°	2101.0
55°	1873.5
57.5°	1648.2
60°	1421.8
62.5°	1197.7
65°	989.2
67.5°	813.0
70°	640.1
72.5°	485.1
75°	350.2
77.5°	239.8
80°	150.5
82.5°	85.9
85°	42.4
87.5°	17.8
90°	5.6
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°	4.5
155°	4.5
157.5°	5.6
160°	5.6
162.5°	5.6
165°	6.7
167.5°	6.7
170°	6.7
172.5°	6.7
175°	7.8
177.5°	7.8
180°	7.8

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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	23.39	24.80	23.75	25.11	25.43	23.39	24.80	23.75	25.11	25.43
	3H	24.31	25.56	24.69	25.89	26.26	24.31	25.56	24.69	25.89	26.26
	4H	24.50	25.67	24.90	26.03	26.41	24.50	25.67	24.90	26.03	26.41
	6H	24.55	25.63	24.97	26.00	26.40	24.55	25.63	24.97	26.00	26.40
	8H	24.53	25.56	24.96	25.95	26.36	24.53	25.56	24.96	25.95	26.36
	12H	24.51	25.49	24.94	25.87	26.30	24.51	25.49	24.94	25.87	26.30
4H	2H	23.70	24.87	24.10	25.22	25.61	23.70	24.87	24.10	25.22	25.61
	3H	24.76	25.72	25.17	26.13	26.53	24.76	25.72	25.17	26.13	26.53
	4H	25.00	25.87	25.44	26.29	26.73	25.00	25.87	25.44	26.29	26.73
	6H	25.09	25.84	25.56	26.29	26.75	25.09	25.84	25.56	26.29	26.75
	8H	25.08	25.77	25.55	26.22	26.69	25.08	25.77	25.55	26.22	26.69
	12H	25.05	25.67	25.54	26.15	26.63	25.05	25.67	25.54	26.15	26.63
8H	4H	25.03	25.73	25.50	26.17	26.65	25.03	25.73	25.50	26.17	26.65
	6H	25.14	25.71	25.64	26.20	26.69	25.14	25.71	25.64	26.20	26.69
	8H	25.13	25.64	25.65	26.15	26.65	25.13	25.64	25.65	26.15	26.65
	12H	25.12	25.56	25.63	26.06	26.63	25.12	25.56	25.63	26.06	26.63
12H	4H	25.00	25.62	25.49	26.10	26.58	25.00	25.62	25.49	26.10	26.58
	6H	25.10	25.61	25.62	26.12	26.62	25.10	25.61	25.62	26.12	26.62
	8H	25.11	25.56	25.63	26.06	26.63	25.11	25.56	25.63	26.06	26.63