

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: P978851

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

Issue Date: 3/27/2025

Test Information

Test Method: LM-79-2019
Report Number: P978851
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-3000K
Description: UHBS2 LED High Bay at 3000K and LOW lumen setting
Light Source: -
Ballast/Driver: -

Summary

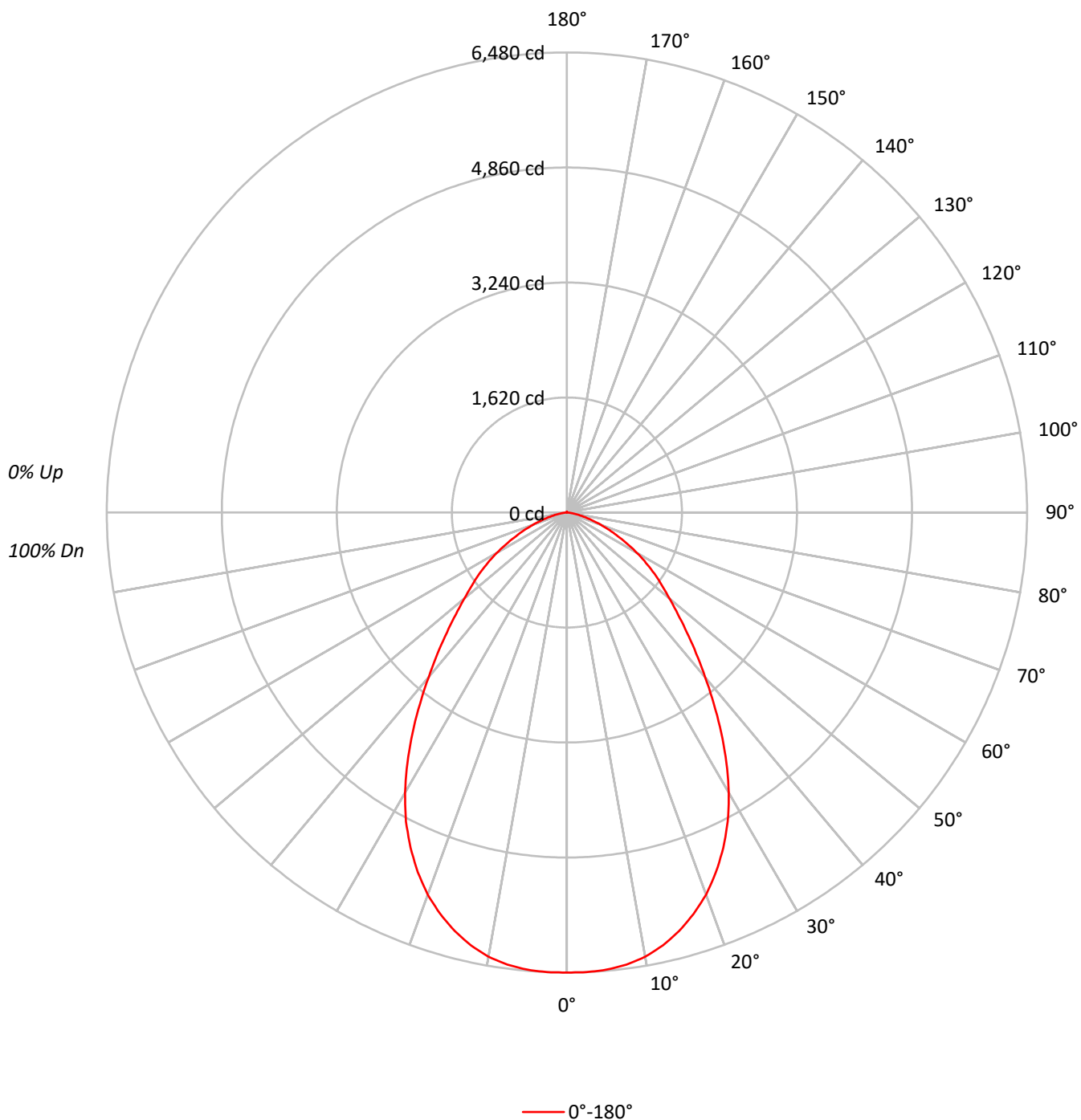
Lumens per Lamp: N/A
Luminaire Lumens: 11445.0 lumens
Efficiency: N/A
Efficacy: 142.7 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.11
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.1')
CIE Type: Direct

Input Watts (W): 80.2
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		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°	88809
5°	87947
10°	86493
15°	83741
20°	79849
25°	74365
30°	67199
35°	58207
40°	48929
45°	41048
50°	34842
55°	30383
60°	25613
65°	20211
70°	15244
75°	10083
80°	5536
85°	2177

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 41048 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	613.5	5.4
10°-20°	1714.4	15.0
20°-30°	2384.8	20.8
30°-40°	2362.3	20.6
40°-50°	1857.1	16.2
50°-60°	1344.3	11.7
60°-70°	798.4	7.0
70°-80°	310.4	2.7
80°-90°	48.9	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°	1.4	0.0
140°-150°	1.6	0.0
150°-160°	1.7	0.0
160°-170°	1.4	0.0
170°-180°	0.6	0.0
0°-30°	4712.7	41.2
0°-40°	7075.0	61.8
0°-60°	10276.4	89.8
0°-90°	11434.1	99.9
90°-120°	3.3	0.0
90°-150°	7.2	0.1
90°-180°	11.0	0.1
0°-180°	11445.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6480	
5°	6464	614
15°	6103	1714
25°	5210	2385
35°	3789	2362
45°	2388	1857
55°	1503	1344
65°	793	798
75°	281	310
85°	34	46
90°	4	3
95°	1	1
105°	1	1
115°	1	1
125°	1	1
135°	2	1
145°	3	2
155°	4	2
165°	5	1
175°	6	1
180°	6	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	6480.0
2.5°	6480.0
5°	6463.9
7.5°	6423.6
10°	6354.7
12.5°	6243.8
15°	6103.4
17.5°	5930.7
20°	5728.6
22.5°	5485.3
25°	5209.7
27.5°	4906.5
30°	4558.5
32.5°	4181.9
35°	3789.2
37.5°	3398.3
40°	3027.1
42.5°	2694.3
45°	2387.5
47.5°	2118.2
50°	1882.1
52.5°	1685.3
55°	1502.8
57.5°	1322.1
60°	1140.5
62.5°	960.7
65°	793.4
67.5°	652.1
70°	513.5
72.5°	389.1
75°	280.9
77.5°	192.3
80°	120.8
82.5°	68.9
85°	34.0
87.5°	14.3
90°	4.5
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°	1.8
132.5°	1.8
135°	1.8
137.5°	1.8
140°	1.8
142.5°	2.7
145°	2.7
147.5°	2.7
150°	2.7
152.5°	3.6
155°	3.6
157.5°	4.5
160°	4.5
162.5°	4.5
165°	5.4
167.5°	5.4
170°	5.4
172.5°	5.4
175°	6.3
177.5°	6.3
180°	6.3

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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	22.62	24.03	22.99	24.35	24.66	22.62	24.03	22.99	24.35	24.66
	3H	23.54	24.80	23.92	25.13	25.49	23.54	24.80	23.92	25.13	25.49
	4H	23.74	24.91	24.14	25.26	25.64	23.74	24.91	24.14	25.26	25.64
	6H	23.78	24.86	24.20	25.23	25.63	23.78	24.86	24.20	25.23	25.63
	8H	23.77	24.79	24.20	25.18	25.59	23.77	24.79	24.20	25.18	25.59
	12H	23.74	24.72	24.17	25.10	25.54	23.74	24.72	24.17	25.10	25.54
4H	2H	22.93	24.11	23.34	24.46	24.84	22.93	24.11	23.34	24.46	24.84
	3H	23.99	24.96	24.41	25.36	25.76	23.99	24.96	24.41	25.36	25.76
	4H	24.24	25.10	24.67	25.52	25.96	24.24	25.10	24.67	25.52	25.96
	6H	24.33	25.07	24.79	25.52	25.99	24.33	25.07	24.79	25.52	25.99
	8H	24.31	25.01	24.78	25.46	25.93	24.31	25.01	24.78	25.46	25.93
	12H	24.29	24.90	24.77	25.39	25.86	24.29	24.90	24.77	25.39	25.86
8H	4H	24.27	24.96	24.73	25.41	25.88	24.27	24.96	24.73	25.41	25.88
	6H	24.37	24.94	24.87	25.44	25.92	24.37	24.94	24.87	25.44	25.92
	8H	24.36	24.87	24.88	25.39	25.88	24.36	24.87	24.88	25.39	25.88
	12H	24.35	24.80	24.86	25.29	25.86	24.35	24.80	24.86	25.29	25.86
12H	4H	24.24	24.85	24.72	25.34	25.81	24.24	24.85	24.72	25.34	25.81
	6H	24.33	24.84	24.85	25.36	25.85	24.33	24.84	24.85	25.36	25.85
	8H	24.35	24.80	24.86	25.29	25.86	24.35	24.80	24.86	25.29	25.86