

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: P978858

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

Issue Date: 3/27/2025

Test Information

Test Method: LM-79-2019
Report Number: P978858
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-4000K
Description: UHBS2 LED High Bay at 4000K and MID lumen setting
Light Source: -
Ballast/Driver: -

Summary

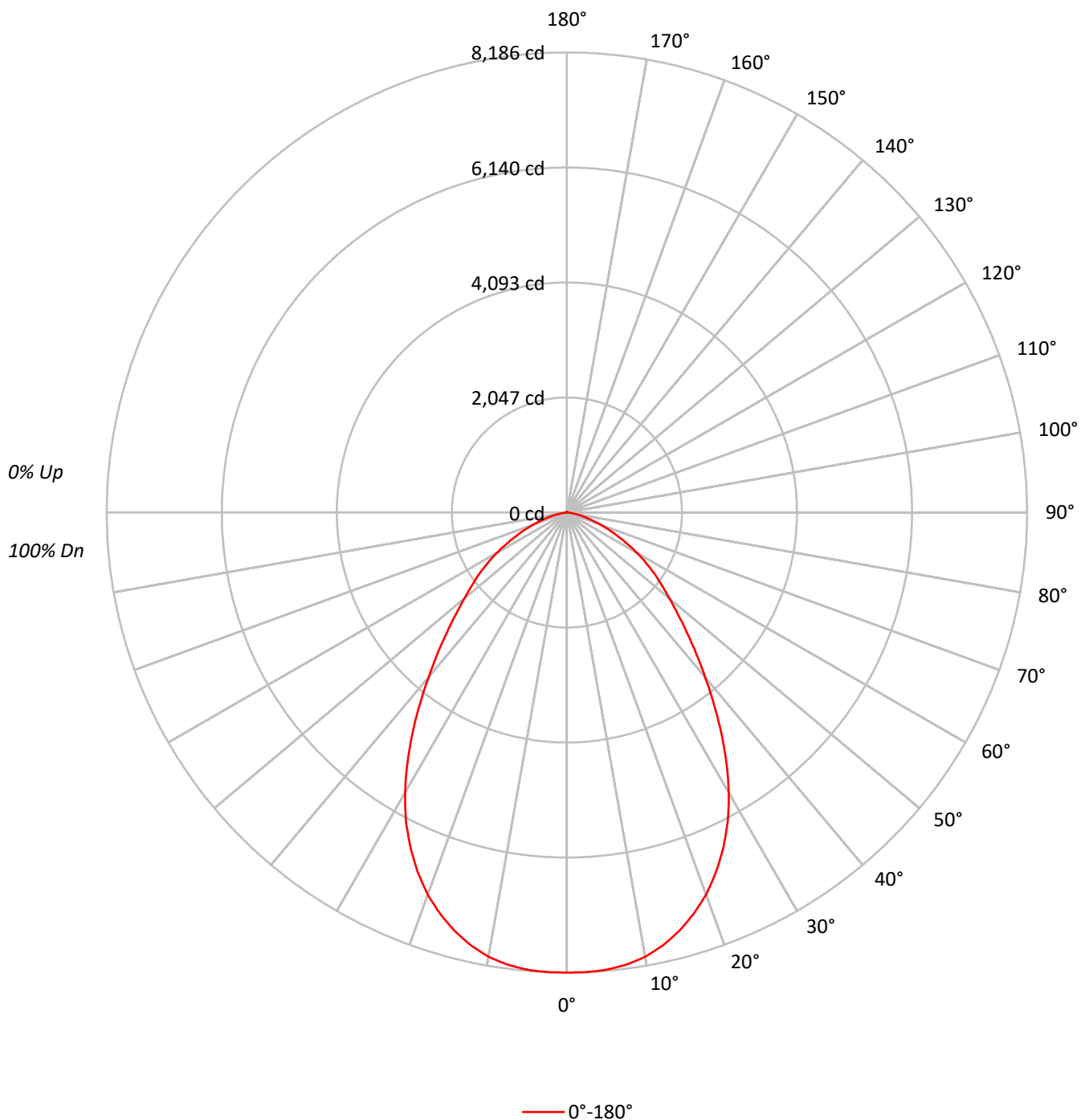
Lumens per Lamp: N/A
Luminaire Lumens: 14458.0 lumens
Efficiency: N/A
Efficacy: 149.8 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.11
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.1')
CIE Type: Direct

Input Watts (W): 96.5
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°	112188
5°	111098
10°	109264
15°	105786
20°	100870
25°	93944
30°	84891
35°	73531
40°	61810
45°	51853
50°	44015
55°	38381
60°	32357
65°	25532
70°	19254
75°	12736
80°	6994
85°	2747

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 51853 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	775.1	5.4
10°-20°	2165.8	15.0
20°-30°	3012.6	20.8
30°-40°	2984.2	20.6
40°-50°	2346.0	16.2
50°-60°	1698.2	11.7
60°-70°	1008.6	7.0
70°-80°	392.1	2.7
80°-90°	61.8	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°	1.8	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°	5953.4	41.2
0°-40°	8937.6	61.8
0°-60°	12981.8	89.8
0°-90°	14444.3	99.9
90°-120°	4.1	0.0
90°-150°	9.0	0.1
90°-180°	14.0	0.1
0°-180°	14458.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8186	
5°	8166	775
15°	7710	2166
25°	6581	3013
35°	4787	2984
45°	3016	2346
55°	1898	1698
65°	1002	1009
75°	355	392
85°	43	59
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°	8185.9
2.5°	8185.9
5°	8165.5
7.5°	8114.7
10°	8027.7
12.5°	7887.6
15°	7710.1
17.5°	7492.1
20°	7236.7
22.5°	6929.3
25°	6581.3
27.5°	6198.2
30°	5758.6
32.5°	5282.9
35°	4786.8
37.5°	4293.0
40°	3824.0
42.5°	3403.6
45°	3016.0
47.5°	2675.9
50°	2377.6
52.5°	2129.0
55°	1898.4
57.5°	1670.2
60°	1440.8
62.5°	1213.6
65°	1002.3
67.5°	823.8
70°	648.6
72.5°	491.6
75°	354.8
77.5°	243.0
80°	152.6
82.5°	87.0
85°	42.9
87.5°	18.1
90°	5.7
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°	2.3
132.5°	2.3
135°	2.3
137.5°	2.3
140°	2.3
142.5°	3.4
145°	3.4
147.5°	3.4
150°	3.4
152.5°	4.5
155°	4.5
157.5°	5.7
160°	5.7
162.5°	5.7
165°	6.8
167.5°	6.8
170°	6.8
172.5°	6.8
175°	7.9
177.5°	7.9
180°	7.9

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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	23.43	24.84	23.80	25.16	25.47	23.43	24.84	23.80	25.16	25.47
	3H	24.35	25.61	24.73	25.94	26.31	24.35	25.61	24.73	25.94	26.31
	4H	24.55	25.72	24.95	26.07	26.46	24.55	25.72	24.95	26.07	26.46
	6H	24.60	25.68	25.01	26.05	26.44	24.60	25.68	25.01	26.05	26.44
	8H	24.58	25.60	25.01	26.00	26.40	24.58	25.60	25.01	26.00	26.40
	12H	24.55	25.53	24.98	25.92	26.35	24.55	25.53	24.98	25.92	26.35
4H	2H	23.74	24.92	24.15	25.27	25.65	23.74	24.92	24.15	25.27	25.65
	3H	24.80	25.77	25.22	26.17	26.58	24.80	25.77	25.22	26.17	26.58
	4H	25.05	25.91	25.48	26.33	26.77	25.05	25.91	25.48	26.33	26.77
	6H	25.14	25.89	25.60	26.33	26.80	25.14	25.89	25.60	26.33	26.80
	8H	25.12	25.82	25.59	26.27	26.74	25.12	25.82	25.59	26.27	26.74
	12H	25.10	25.72	25.59	26.20	26.67	25.10	25.72	25.59	26.20	26.67
8H	4H	25.08	25.77	25.55	26.22	26.69	25.08	25.77	25.55	26.22	26.69
	6H	25.18	25.75	25.69	26.25	26.73	25.18	25.75	25.69	26.25	26.73
	8H	25.18	25.68	25.70	26.20	26.69	25.18	25.68	25.70	26.20	26.69
	12H	25.16	25.61	25.68	26.11	26.68	25.16	25.61	25.68	26.11	26.68
12H	4H	25.05	25.66	25.53	26.15	26.62	25.05	25.66	25.53	26.15	26.62
	6H	25.14	25.65	25.67	26.17	26.66	25.14	25.65	25.67	26.17	26.66
	8H	25.16	25.61	25.67	26.10	26.67	25.16	25.61	25.67	26.10	26.67