

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: P978902

Luminaire Tested: UHBS2-2436-M-L83065-MID-3500K

Issue Date: 3/27/2025

Test Information

Test Method: LM-79-2019
Report Number: P978902
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: UHBS2-2436-M-L83065-MID-3500K
Description: UHBS2 LED High Bay at 3500K and MID lumen setting
Light Source: -
Ballast/Driver: -

Summary

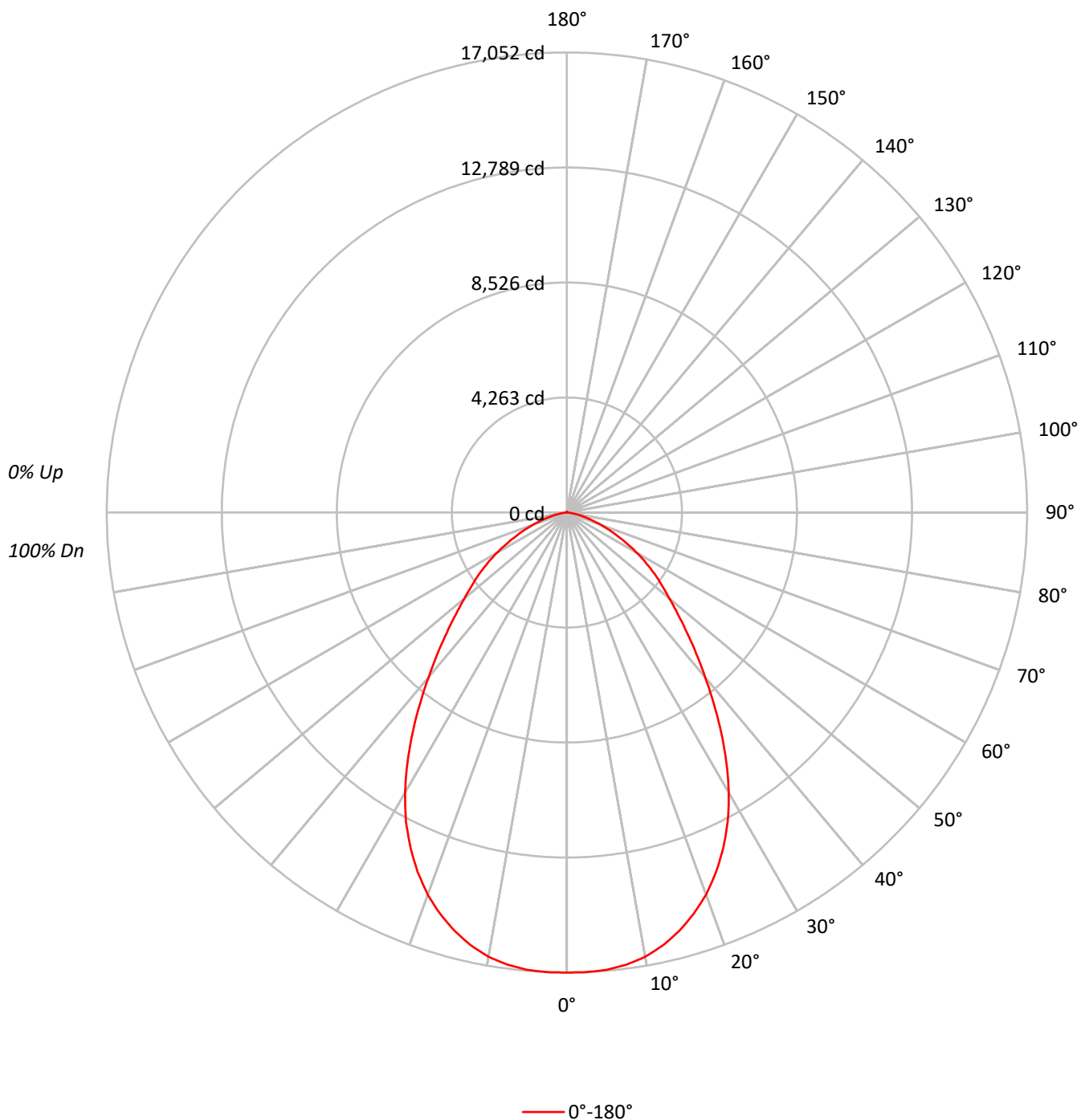
Lumens per Lamp: N/A
Luminaire Lumens: 30118.3 lumens
Efficiency: N/A
Efficacy: 156.5 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.11
Luminous Opening: Vertical Cylinder (Dia: 1.18' x H: 0.1')
CIE Type: Direct

Input Watts (W): 192.4
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 5.15
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°	169273
5°	167906
10°	165403
15°	160403
20°	153206
25°	142938
30°	129407
35°	112315
40°	94622
45°	79578
50°	67739
55°	59270
60°	50170
65°	39796
70°	30220
75°	20187
80°	11252
85°	4554

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 79578 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1614.6	5.4
10°-20°	4511.6	15.0
20°-30°	6275.6	20.8
30°-40°	6216.5	20.6
40°-50°	4887.1	16.2
50°-60°	3537.5	11.7
60°-70°	2101.1	7.0
70°-80°	816.9	2.7
80°-90°	128.7	0.4
90°-100°	3.9	0.0
100°-110°	2.5	0.0
110°-120°	2.4	0.0
120°-130°	2.4	0.0
130°-140°	3.6	0.0
140°-150°	4.3	0.0
150°-160°	4.6	0.0
160°-170°	3.7	0.0
170°-180°	1.4	0.0
0°-30°	12401.7	41.2
0°-40°	18618.3	61.8
0°-60°	27042.8	89.8
0°-90°	30089.4	99.9
90°-120°	8.8	0.0
90°-150°	19.1	0.1
90°-180°	29.0	0.1
0°-180°	30118.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	17052	
5°	17010	###
15°	16061	4512
25°	13710	6276
35°	9972	6217
45°	6283	4887
55°	3955	3537
65°	2088	2101
75°	739	817
85°	90	122
90°	12	9
95°	2	2
105°	2	3
115°	2	2
125°	2	2
135°	5	4
145°	7	4
155°	9	5
165°	14	4
175°	16	1
180°	16	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	17052.3
2.5°	17052.3
5°	17010.0
7.5°	16904.0
10°	16722.8
12.5°	16430.9
15°	16061.3
17.5°	15607.0
20°	15075.0
22.5°	14434.7
25°	13709.7
27.5°	12911.7
30°	11996.0
32.5°	11004.9
35°	9971.5
37.5°	8942.8
40°	7965.9
42.5°	7090.2
45°	6282.8
47.5°	5574.3
50°	4952.8
52.5°	4434.9
55°	3954.7
57.5°	3479.2
60°	3001.3
62.5°	2528.2
65°	2088.0
67.5°	1716.1
70°	1351.2
72.5°	1024.0
75°	739.2
77.5°	506.1
80°	317.8
82.5°	181.3
85°	89.5
87.5°	37.7
90°	11.8
92.5°	2.4
95°	2.4
97.5°	2.4
100°	2.4
102.5°	2.4
105°	2.4
107.5°	2.4
110°	2.4

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	2.4
115°	2.4
117.5°	2.4
120°	2.4
122.5°	2.4
125°	2.4
127.5°	2.4
130°	4.7
132.5°	4.7
135°	4.7
137.5°	4.7
140°	4.7
142.5°	7.1
145°	7.1
147.5°	7.1
150°	7.1
152.5°	9.4
155°	9.4
157.5°	11.8
160°	11.8
162.5°	11.8
165°	14.1
167.5°	14.1
170°	14.1
172.5°	14.1
175°	16.5
177.5°	16.5
180°	16.5

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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	24.97	26.38	25.33	26.69	27.01	24.97	26.38	25.33	26.69	27.01
	3H	25.90	27.16	26.28	27.49	27.85	25.90	27.16	26.28	27.49	27.85
	4H	26.10	27.27	26.50	27.62	28.01	26.10	27.27	26.50	27.62	28.01
	6H	26.15	27.23	26.57	27.60	28.00	26.15	27.23	26.57	27.60	28.00
	8H	26.13	27.16	26.56	27.55	27.96	26.13	27.16	26.56	27.55	27.96
	12H	26.11	27.09	26.54	27.47	27.90	26.11	27.09	26.54	27.47	27.90
4H	2H	25.29	26.46	25.69	26.81	27.19	25.29	26.46	25.69	26.81	27.19
	3H	26.36	27.32	26.77	27.73	28.13	26.36	27.32	26.77	27.73	28.13
	4H	26.61	27.47	27.04	27.89	28.33	26.61	27.47	27.04	27.89	28.33
	6H	26.70	27.45	27.17	27.90	28.36	26.70	27.45	27.17	27.90	28.36
	8H	26.69	27.38	27.16	27.83	28.30	26.69	27.38	27.16	27.83	28.30
	12H	26.67	27.28	27.15	27.77	28.24	26.67	27.28	27.15	27.77	28.24
8H	4H	26.64	27.34	27.11	27.78	28.26	26.64	27.34	27.11	27.78	28.26
	6H	26.75	27.32	27.25	27.82	28.30	26.75	27.32	27.25	27.82	28.30
	8H	26.75	27.26	27.27	27.77	28.26	26.75	27.26	27.27	27.77	28.26
	12H	26.73	27.18	27.25	27.68	28.25	26.73	27.18	27.25	27.68	28.25
12H	4H	26.61	27.23	27.10	27.71	28.19	26.61	27.23	27.10	27.71	28.19
	6H	26.71	27.22	27.23	27.74	28.23	26.71	27.22	27.23	27.74	28.23
	8H	26.73	27.18	27.25	27.68	28.25	26.73	27.18	27.25	27.68	28.25