

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: P978892

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

Issue Date: 3/27/2025

Test Information

Test Method: LM-79-2019
Report Number: P978892
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-HIGH-3500K
Description: UHBS2 LED High Bay at 3500K and HIGH lumen setting
Light Source: -
Ballast/Driver: -

Summary

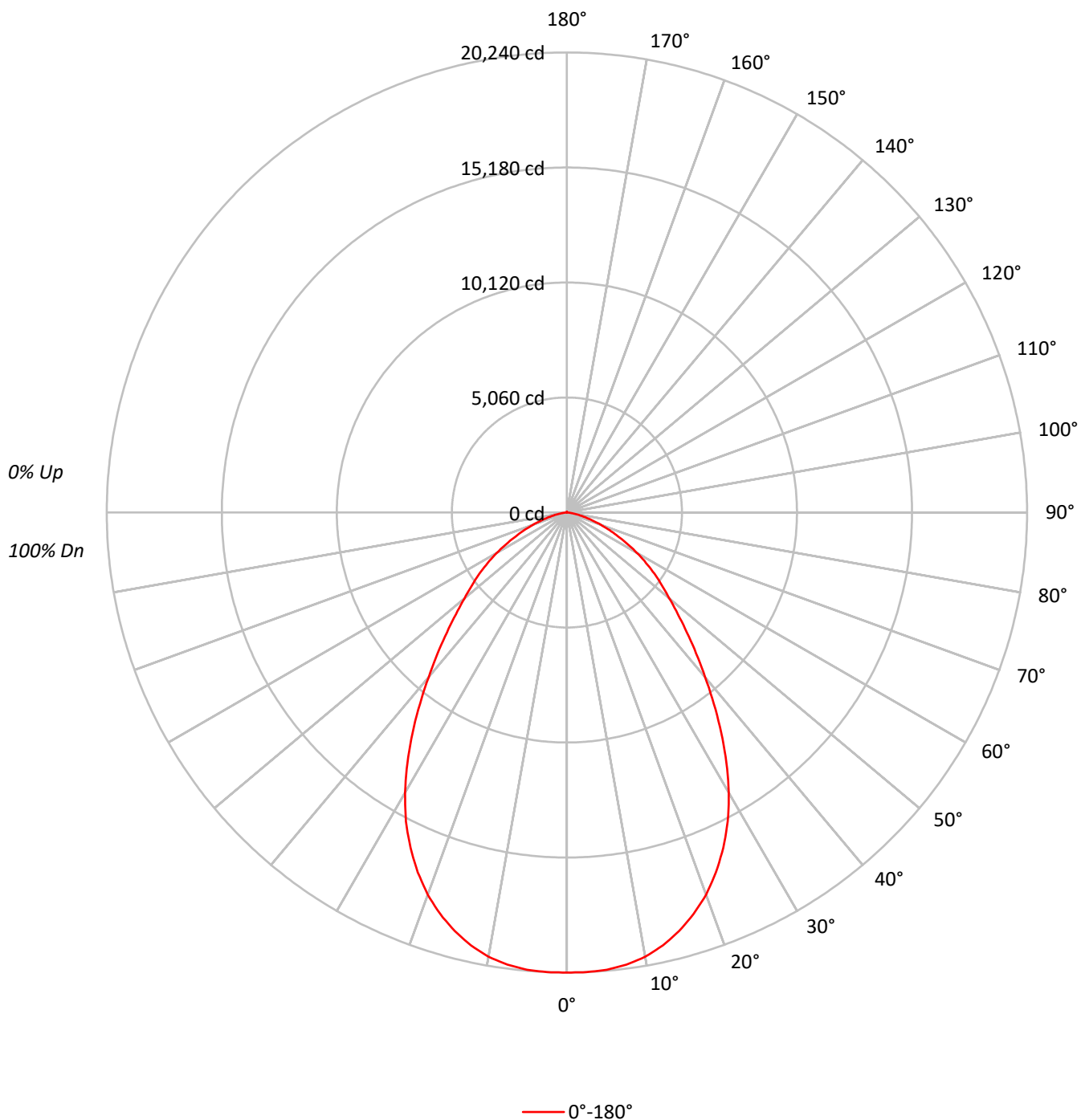
Lumens per Lamp: N/A
Luminaire Lumens: 35749.1 lumens
Efficiency: N/A
Efficacy: 151.8 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.11
Luminous Opening: Vertical Cylinder (Dia: 1.18' x H: 0.1')
CIE Type: Direct

Input Watts (W): 235.5
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.999
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°	200921
5°	199298
10°	196326
15°	190392
20°	181851
25°	169662
30°	153601
35°	133314
40°	112313
45°	94456
50°	80404
55°	70352
60°	59551
65°	47237
70°	35869
75°	23959
80°	13355
85°	5403

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 94456 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1916.4	5.4
10°-20°	5355.1	15.0
20°-30°	7448.9	20.8
30°-40°	7378.8	20.6
40°-50°	5800.8	16.2
50°-60°	4198.9	11.7
60°-70°	2493.9	7.0
70°-80°	969.5	2.7
80°-90°	152.7	0.4
90°-100°	4.6	0.0
100°-110°	3.0	0.0
110°-120°	2.8	0.0
120°-130°	2.8	0.0
130°-140°	4.3	0.0
140°-150°	5.0	0.0
150°-160°	5.4	0.0
160°-170°	4.4	0.0
170°-180°	1.7	0.0
0°-30°	14720.4	41.2
0°-40°	22099.2	61.8
0°-60°	32098.9	89.8
0°-90°	35715.0	99.9
90°-120°	10.3	0.0
90°-150°	22.5	0.1
90°-180°	34.0	0.1
0°-180°	35749.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	20240	
5°	20190	###
15°	19064	5355
25°	16273	7449
35°	11836	7379
45°	7458	5801
55°	4694	4199
65°	2478	2494
75°	877	970
85°	106	145
90°	14	10
95°	3	2
105°	3	3
115°	3	3
125°	3	3
135°	6	4
145°	8	5
155°	11	5
165°	17	4
175°	20	2
180°	20	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	20240.5
2.5°	20240.5
5°	20190.2
7.5°	20064.5
10°	19849.3
12.5°	19502.9
15°	19064.2
17.5°	18524.9
20°	17893.5
22.5°	17133.5
25°	16272.9
27.5°	15325.7
30°	14238.8
32.5°	13062.5
35°	11835.8
37.5°	10614.8
40°	9455.3
42.5°	8415.9
45°	7457.5
47.5°	6616.4
50°	5878.8
52.5°	5264.1
55°	4694.1
57.5°	4129.7
60°	3562.5
62.5°	3000.9
65°	2478.4
67.5°	2036.9
70°	1603.8
72.5°	1215.4
75°	877.3
77.5°	600.7
80°	377.2
82.5°	215.1
85°	106.2
87.5°	44.7
90°	14.0
92.5°	2.8
95°	2.8
97.5°	2.8
100°	2.8
102.5°	2.8
105°	2.8
107.5°	2.8
110°	2.8



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	2.8
115°	2.8
117.5°	2.8
120°	2.8
122.5°	2.8
125°	2.8
127.5°	2.8
130°	5.6
132.5°	5.6
135°	5.6
137.5°	5.6
140°	5.6
142.5°	8.4
145°	8.4
147.5°	8.4
150°	8.4
152.5°	11.2
155°	11.2
157.5°	14.0
160°	14.0
162.5°	14.0
165°	16.8
167.5°	16.8
170°	16.8
172.5°	16.8
175°	19.6
177.5°	19.6
180°	19.6

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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	25.56	26.97	25.93	27.29	27.61	25.56	26.97	25.93	27.29	27.61
	3H	26.50	27.75	26.88	28.08	28.45	26.50	27.75	26.88	28.08	28.45
	4H	26.69	27.87	27.10	28.22	28.60	26.69	27.87	27.10	28.22	28.60
	6H	26.75	27.82	27.16	28.20	28.59	26.75	27.82	27.16	28.20	28.59
	8H	26.73	27.75	27.16	28.15	28.55	26.73	27.75	27.16	28.15	28.55
	12H	26.70	27.68	27.14	28.07	28.50	26.70	27.68	27.14	28.07	28.50
4H	2H	25.88	27.05	26.28	27.41	27.79	25.88	27.05	26.28	27.41	27.79
	3H	26.95	27.92	27.37	28.32	28.73	26.95	27.92	27.37	28.32	28.73
	4H	27.20	28.07	27.64	28.49	28.93	27.20	28.07	27.64	28.49	28.93
	6H	27.30	28.05	27.76	28.49	28.96	27.30	28.05	27.76	28.49	28.96
	8H	27.29	27.98	27.75	28.43	28.90	27.29	27.98	27.75	28.43	28.90
	12H	27.26	27.88	27.75	28.36	28.84	27.26	27.88	27.75	28.36	28.84
8H	4H	27.24	27.93	27.70	28.38	28.85	27.24	27.93	27.70	28.38	28.85
	6H	27.35	27.92	27.85	28.41	28.89	27.35	27.92	27.85	28.41	28.89
	8H	27.34	27.85	27.86	28.37	28.86	27.34	27.85	27.86	28.37	28.86
	12H	27.33	27.78	27.84	28.27	28.84	27.33	27.78	27.84	28.27	28.84
12H	4H	27.21	27.82	27.69	28.31	28.78	27.21	27.82	27.69	28.31	28.78
	6H	27.31	27.82	27.83	28.33	28.83	27.31	27.82	27.83	28.33	28.83
	8H	27.33	27.77	27.84	28.27	28.84	27.33	27.77	27.84	28.27	28.84

END OF REPORT