

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: P978904

Luminaire Tested: UHBS2-2436-M-L83065-MID-5000K

Issue Date: 3/27/2025

Test Information

Test Method: LM-79-2019
Report Number: P978904
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-5000K
Description: UHBS2 LED High Bay at 5000K and MID lumen setting
Light Source: -
Ballast/Driver: -

Summary

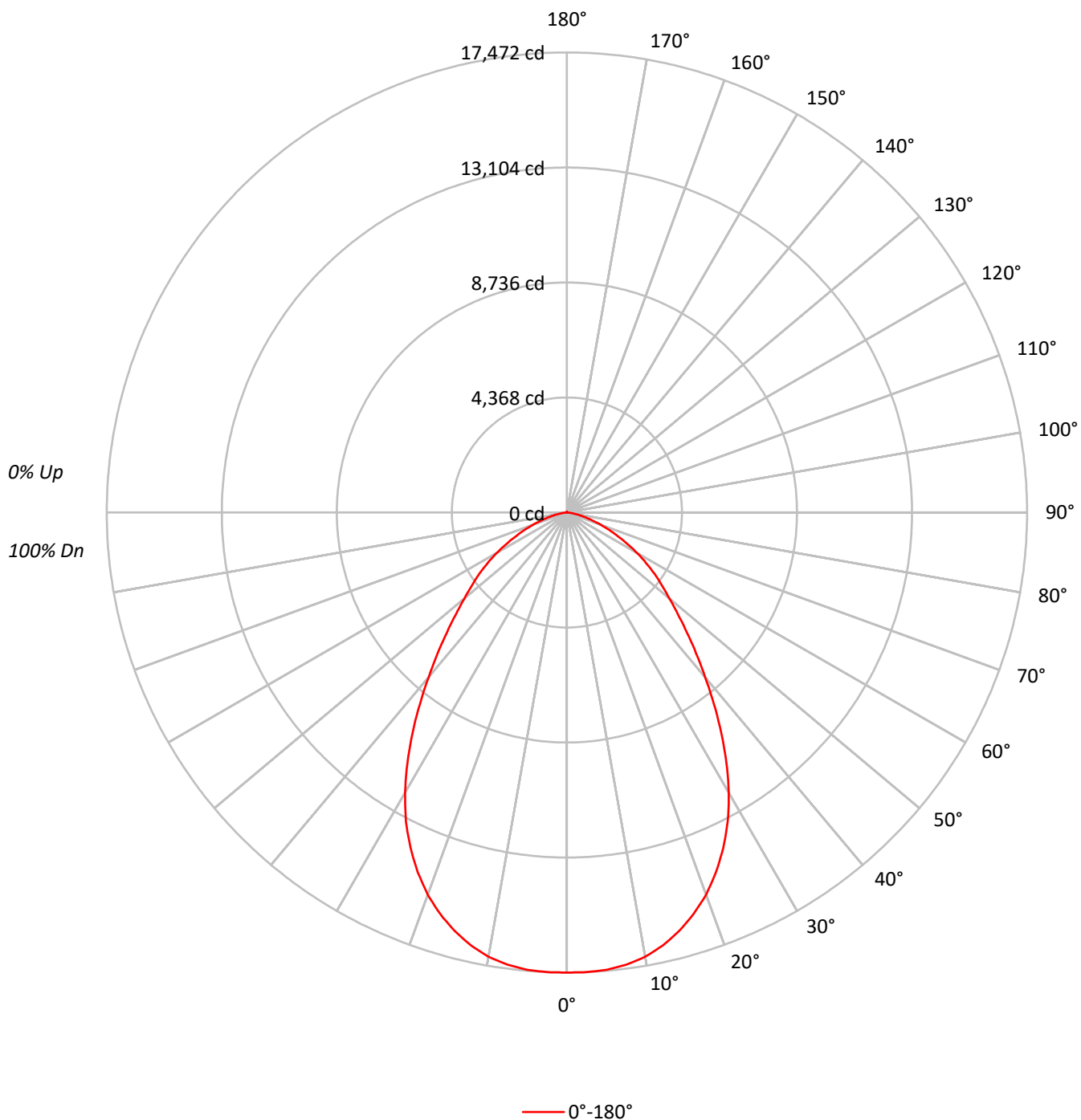
Lumens per Lamp: N/A
Luminaire Lumens: 30859.9 lumens
Efficiency: N/A
Efficacy: 161.6 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.11
Luminous Opening: Vertical Cylinder (Dia: 1.18' x H: 0.1')
CIE Type: Direct

Input Watts (W): 191
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°	173443
5°	172042
10°	169478
15°	164354
20°	156981
25°	146459
30°	132594
35°	115083
40°	96953
45°	81538
50°	69408
55°	60730
60°	51407
65°	40776
70°	30965
75°	20684
80°	11528
85°	4666

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 81538 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1654.3	5.4
10°-20°	4622.7	15.0
20°-30°	6430.2	20.8
30°-40°	6369.7	20.6
40°-50°	5007.5	16.2
50°-60°	3624.6	11.7
60°-70°	2152.8	7.0
70°-80°	837.0	2.7
80°-90°	131.8	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°	3.7	0.0
140°-150°	4.3	0.0
150°-160°	4.7	0.0
160°-170°	3.8	0.0
170°-180°	1.5	0.0
0°-30°	12707.3	41.2
0°-40°	19076.9	61.8
0°-60°	27709.1	89.8
0°-90°	30830.7	99.9
90°-120°	8.9	0.0
90°-150°	19.3	0.1
90°-180°	29.0	0.1
0°-180°	30859.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	17472	
5°	17429	###
15°	16457	4623
25°	14047	6430
35°	10217	6370
45°	6438	5007
55°	4052	3625
65°	2139	2153
75°	757	837
85°	92	125
90°	12	9
95°	2	2
105°	2	3
115°	2	2
125°	2	2
135°	5	4
145°	7	4
155°	10	5
165°	14	4
175°	17	1
180°	17	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	17472.4
2.5°	17472.4
5°	17429.0
7.5°	17320.5
10°	17134.8
12.5°	16835.7
15°	16457.0
17.5°	15991.5
20°	15446.4
22.5°	14790.3
25°	14047.4
27.5°	13229.8
30°	12291.5
32.5°	11276.0
35°	10217.2
37.5°	9163.1
40°	8162.2
42.5°	7264.9
45°	6437.6
47.5°	5711.6
50°	5074.8
52.5°	4544.2
55°	4052.1
57.5°	3564.9
60°	3075.3
62.5°	2590.5
65°	2139.4
67.5°	1758.3
70°	1384.5
72.5°	1049.2
75°	757.4
77.5°	518.6
80°	325.6
82.5°	185.7
85°	91.7
87.5°	38.6
90°	12.1
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°	4.8
132.5°	4.8
135°	4.8
137.5°	4.8
140°	4.8
142.5°	7.2
145°	7.2
147.5°	7.2
150°	7.2
152.5°	9.6
155°	9.6
157.5°	12.1
160°	12.1
162.5°	12.1
165°	14.5
167.5°	14.5
170°	14.5
172.5°	14.5
175°	16.9
177.5°	16.9
180°	16.9

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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	25.05	26.46	25.42	26.78	27.10	25.05	26.46	25.42	26.78	27.10
	3H	25.98	27.24	26.36	27.57	27.94	25.98	27.24	26.36	27.57	27.94
	4H	26.18	27.36	26.59	27.71	28.09	26.18	27.36	26.59	27.71	28.09
	6H	26.23	27.31	26.65	27.68	28.08	26.23	27.31	26.65	27.68	28.08
	8H	26.22	27.24	26.65	27.64	28.04	26.22	27.24	26.65	27.64	28.04
	12H	26.19	27.17	26.62	27.56	27.99	26.19	27.17	26.62	27.56	27.99
4H	2H	25.37	26.54	25.77	26.90	27.28	25.37	26.54	25.77	26.90	27.28
	3H	26.44	27.41	26.86	27.81	28.21	26.44	27.41	26.86	27.81	28.21
	4H	26.69	27.56	27.13	27.98	28.42	26.69	27.56	27.13	27.98	28.42
	6H	26.79	27.53	27.25	27.98	28.45	26.79	27.53	27.25	27.98	28.45
	8H	26.77	27.47	27.24	27.92	28.39	26.77	27.47	27.24	27.92	28.39
	12H	26.75	27.37	27.24	27.85	28.33	26.75	27.37	27.24	27.85	28.33
8H	4H	26.73	27.42	27.19	27.87	28.34	26.73	27.42	27.19	27.87	28.34
	6H	26.84	27.41	27.34	27.90	28.38	26.84	27.41	27.34	27.90	28.38
	8H	26.83	27.34	27.35	27.85	28.35	26.83	27.34	27.35	27.85	28.35
	12H	26.82	27.27	27.33	27.76	28.33	26.82	27.27	27.33	27.76	28.33
12H	4H	26.70	27.31	27.18	27.80	28.27	26.70	27.31	27.18	27.80	28.27
	6H	26.80	27.31	27.32	27.82	28.32	26.80	27.31	27.32	27.82	28.32
	8H	26.82	27.26	27.33	27.76	28.33	26.82	27.26	27.33	27.76	28.33

END OF REPORT