

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: P978905

Luminaire Tested: UHBS2-2436-M-L83065-MID-6500K

Issue Date: 3/27/2025

Test Information

Test Method: LM-79-2019
Report Number: P978905
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-6500K
Description: UHBS2 LED High Bay at 6500K and MID lumen setting
Light Source: -
Ballast/Driver: -

Summary

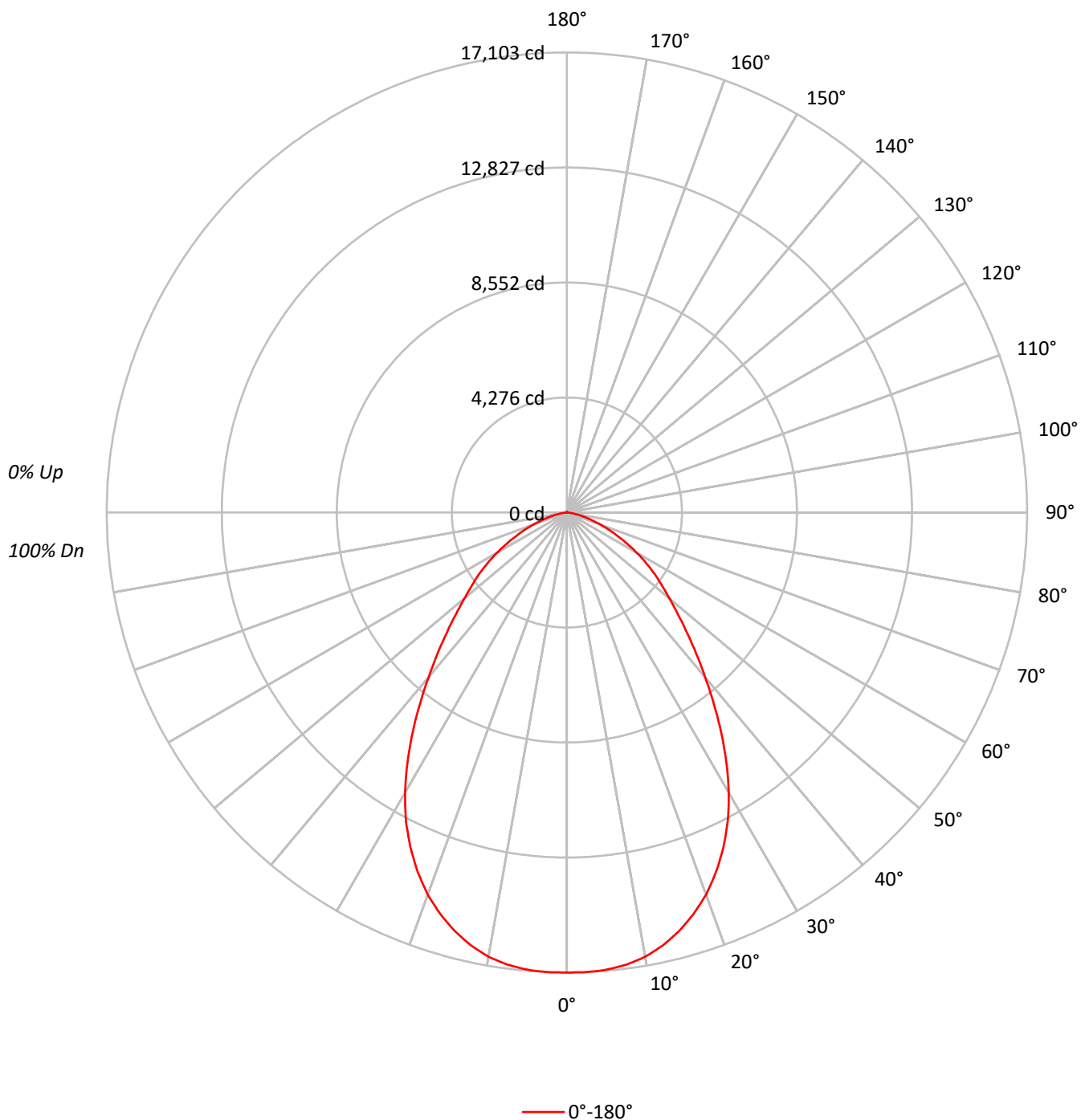
Lumens per Lamp: N/A
Luminaire Lumens: 30207.1 lumens
Efficiency: N/A
Efficacy: 154.9 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.11
Luminous Opening: Vertical Cylinder (Dia: 1.18' x H: 0.1')
CIE Type: Direct

Input Watts (W): 195
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°	169773
5°	168402
10°	165891
15°	160877
20°	153659
25°	143361
30°	129788
35°	112648
40°	94902
45°	79813
50°	67939
55°	59446
60°	50319
65°	39914
70°	30309
75°	20245
80°	11284
85°	4564

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 79813 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1619.3	5.4
10°-20°	4524.9	15.0
20°-30°	6294.2	20.8
30°-40°	6234.9	20.6
40°-50°	4901.5	16.2
50°-60°	3547.9	11.7
60°-70°	2107.3	7.0
70°-80°	819.2	2.7
80°-90°	129.0	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°	12438.4	41.2
0°-40°	18673.3	61.8
0°-60°	27122.7	89.8
0°-90°	30178.3	99.9
90°-120°	8.8	0.0
90°-150°	19.1	0.1
90°-180°	29.0	0.1
0°-180°	30207.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	17103	
5°	17060	###
15°	16109	4525
25°	13750	6294
35°	10001	6235
45°	6301	4902
55°	3966	3548
65°	2094	2107
75°	741	819
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°	17102.7
2.5°	17102.7
5°	17060.2
7.5°	16954.0
10°	16772.2
12.5°	16479.4
15°	16108.8
17.5°	15653.1
20°	15119.5
22.5°	14477.3
25°	13750.2
27.5°	12949.8
30°	12031.4
32.5°	11037.4
35°	10001.0
37.5°	8969.2
40°	7989.5
42.5°	7111.2
45°	6301.4
47.5°	5590.7
50°	4967.4
52.5°	4448.0
55°	3966.4
57.5°	3489.5
60°	3010.2
62.5°	2535.7
65°	2094.2
67.5°	1721.1
70°	1355.2
72.5°	1027.0
75°	741.3
77.5°	507.6
80°	318.7
82.5°	181.8
85°	89.7
87.5°	37.8
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°	14.2
167.5°	14.2
170°	14.2
172.5°	14.2
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	24.98	26.39	25.35	26.70	27.02	24.98	26.39	25.35	26.70	27.02
	3H	25.91	27.17	26.29	27.50	27.86	25.91	27.17	26.29	27.50	27.86
	4H	26.11	27.28	26.51	27.63	28.02	26.11	27.28	26.51	27.63	28.02
	6H	26.16	27.24	26.58	27.61	28.01	26.16	27.24	26.58	27.61	28.01
	8H	26.14	27.17	26.57	27.56	27.97	26.14	27.17	26.57	27.56	27.97
	12H	26.12	27.10	26.55	27.48	27.91	26.12	27.10	26.55	27.48	27.91
4H	2H	25.30	26.47	25.70	26.82	27.20	25.30	26.47	25.70	26.82	27.20
	3H	26.37	27.33	26.78	27.74	28.14	26.37	27.33	26.78	27.74	28.14
	4H	26.62	27.48	27.05	27.90	28.34	26.62	27.48	27.05	27.90	28.34
	6H	26.71	27.46	27.18	27.91	28.37	26.71	27.46	27.18	27.91	28.37
	8H	26.70	27.40	27.17	27.84	28.31	26.70	27.40	27.17	27.84	28.31
	12H	26.68	27.29	27.16	27.78	28.25	26.68	27.29	27.16	27.78	28.25
8H	4H	26.65	27.35	27.12	27.79	28.27	26.65	27.35	27.12	27.79	28.27
	6H	26.76	27.33	27.26	27.83	28.31	26.76	27.33	27.26	27.83	28.31
	8H	26.76	27.27	27.28	27.78	28.27	26.76	27.27	27.28	27.78	28.27
	12H	26.74	27.19	27.26	27.69	28.26	26.74	27.19	27.26	27.69	28.26
12H	4H	26.62	27.24	27.11	27.72	28.20	26.62	27.24	27.11	27.72	28.20
	6H	26.72	27.23	27.24	27.75	28.24	26.72	27.23	27.24	27.75	28.24
	8H	26.74	27.19	27.26	27.69	28.26	26.74	27.19	27.26	27.69	28.26