

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: P978903

Luminaire Tested: UHBS2-2436-M-L83065-MID-4000K

Issue Date: 3/27/2025

Test Information

Test Method: LM-79-2019
Report Number: P978903
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-4000K
Description: UHBS2 LED High Bay at 4000K and MID lumen setting
Light Source: -
Ballast/Driver: -

Summary

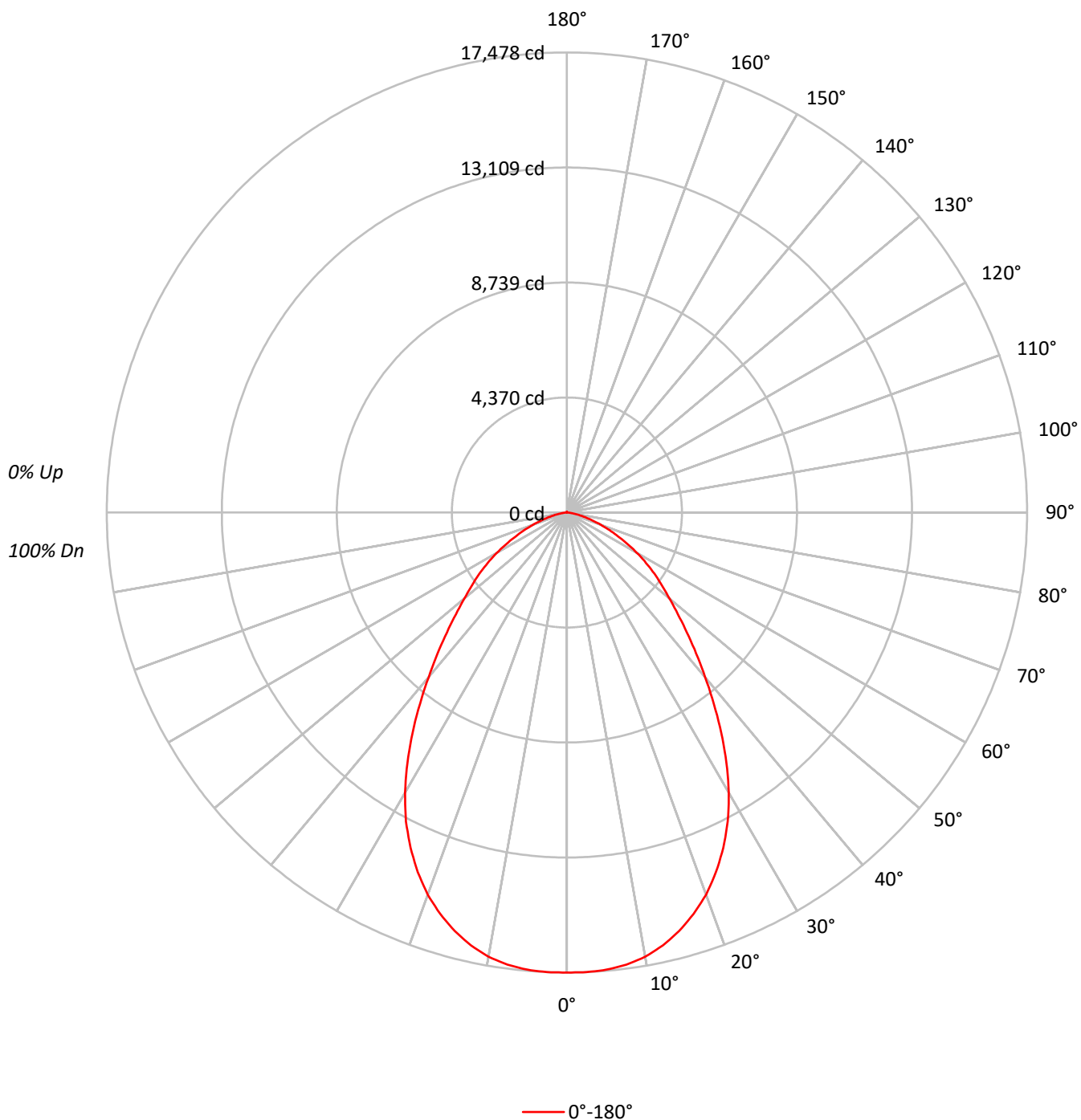
Lumens per Lamp: N/A
Luminaire Lumens: 30869.0 lumens
Efficiency: N/A
Efficacy: 162.5 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.11
Luminous Opening: Vertical Cylinder (Dia: 1.18' x H: 0.1')
CIE Type: Direct

Input Watts (W): 190
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°	173494
5°	172093
10°	169527
15°	164402
20°	157027
25°	146502
30°	132633
35°	115117
40°	96981
45°	81563
50°	69428
55°	60748
60°	51422
65°	40789
70°	30974
75°	20690
80°	11532
85°	4666

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 81563 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1654.8	5.4
10°-20°	4624.1	15.0
20°-30°	6432.1	20.8
30°-40°	6371.5	20.6
40°-50°	5008.9	16.2
50°-60°	3625.7	11.7
60°-70°	2153.5	7.0
70°-80°	837.2	2.7
80°-90°	131.9	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°	12711.0	41.2
0°-40°	19082.5	61.8
0°-60°	27717.1	89.8
0°-90°	30839.7	99.9
90°-120°	8.9	0.0
90°-150°	19.3	0.1
90°-180°	29.0	0.1
0°-180°	30869.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	17478	
5°	17434	###
15°	16462	4624
25°	14052	6432
35°	10220	6372
45°	6440	5009
55°	4053	3626
65°	2140	2153
75°	758	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°	17477.5
2.5°	17477.5
5°	17434.1
7.5°	17325.5
10°	17139.8
12.5°	16840.6
15°	16461.8
17.5°	15996.1
20°	15450.9
22.5°	14794.6
25°	14051.5
27.5°	13233.6
30°	12295.1
32.5°	11279.3
35°	10220.2
37.5°	9165.8
40°	8164.5
42.5°	7267.0
45°	6439.5
47.5°	5713.3
50°	5076.3
52.5°	4545.5
55°	4053.3
57.5°	3566.0
60°	3076.2
62.5°	2591.2
65°	2140.1
67.5°	1758.9
70°	1384.9
72.5°	1049.5
75°	757.6
77.5°	518.7
80°	325.7
82.5°	185.8
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°	9.7
155°	9.7
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	25.99	27.24	26.37	27.57	27.94	25.99	27.24	26.37	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	26.24	27.32	26.65	27.69	28.08	26.24	27.32	26.65	27.69	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	26.63	27.56	27.99	26.19	27.17	26.63	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	28.22	26.44	27.41	26.86	27.81	28.22
	4H	26.69	27.56	27.13	27.98	28.42	26.69	27.56	27.13	27.98	28.42
	6H	26.79	27.54	27.25	27.98	28.45	26.79	27.54	27.25	27.98	28.45
	8H	26.78	27.47	27.24	27.92	28.39	26.78	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	28.39	26.84	27.41	27.34	27.90	28.39
	8H	26.83	27.34	27.35	27.86	28.35	26.83	27.34	27.35	27.86	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	27.27	27.33	27.76	28.33	26.82	27.27	27.33	27.76	28.33