

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: P978893

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

Issue Date: 3/27/2025

Test Information

Test Method: LM-79-2019
Report Number: P978893
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-4000K
Description: UHBS2 LED High Bay at 4000K and HIGH lumen setting
Light Source: -
Ballast/Driver: -

Summary

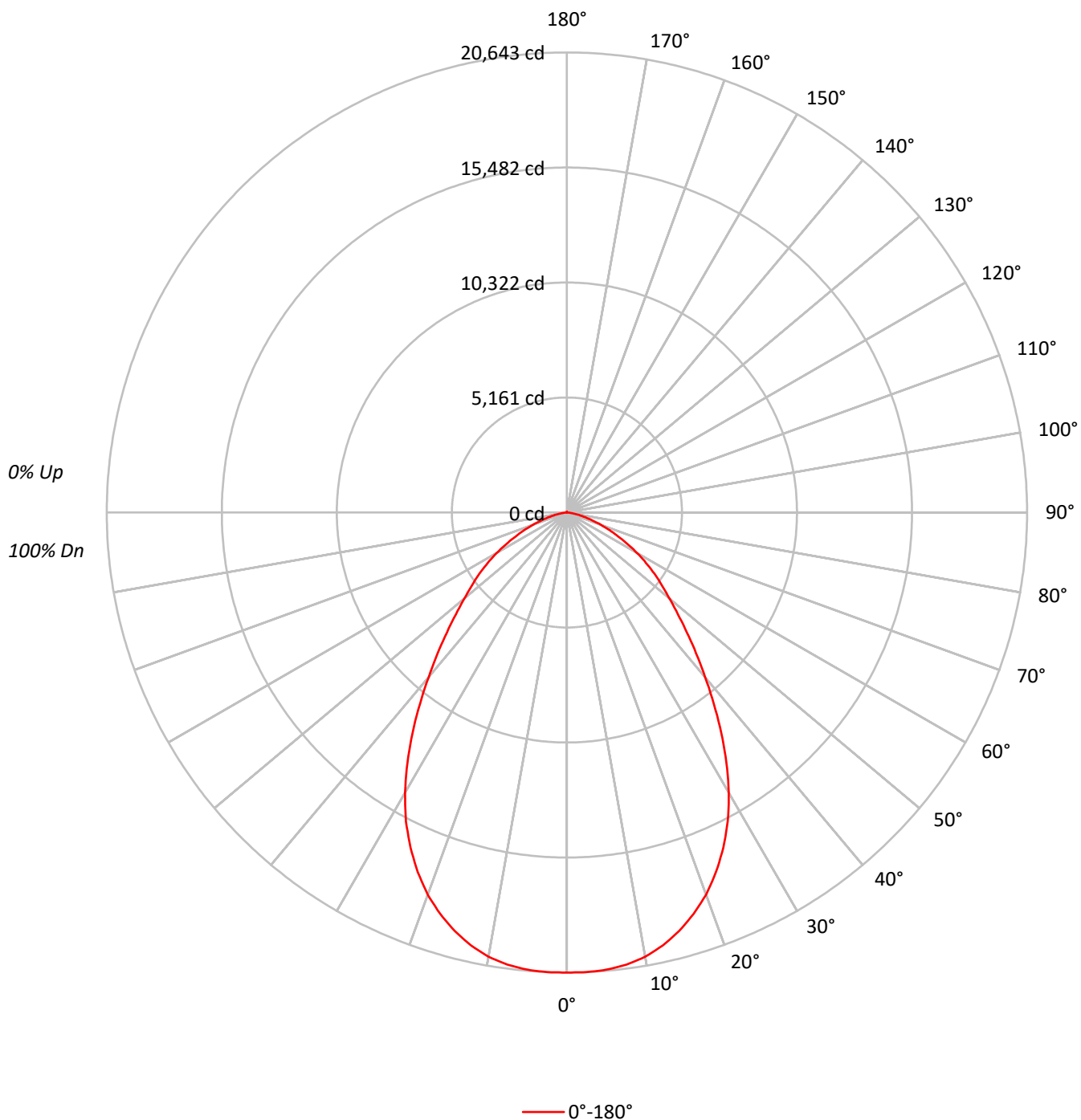
Lumens per Lamp: N/A
Luminaire Lumens: 36459.7 lumens
Efficiency: N/A
Efficacy: 157.1 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.11
Luminous Opening: Vertical Cylinder (Dia: 1.18' x H: 0.1')
CIE Type: Direct

Input Watts (W): 232.1
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°	204918
5°	203262
10°	200231
15°	194179
20°	185467
25°	173036
30°	156656
35°	135966
40°	114546
45°	96335
50°	82003
55°	71752
60°	60734
65°	48177
70°	36583
75°	24437
80°	13621
85°	5510

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 96335 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1954.5	5.4
10°-20°	5461.6	15.0
20°-30°	7597.1	20.8
30°-40°	7525.5	20.6
40°-50°	5916.1	16.2
50°-60°	4282.4	11.7
60°-70°	2543.5	7.0
70°-80°	988.9	2.7
80°-90°	155.7	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°	4.4	0.0
140°-150°	5.1	0.0
150°-160°	5.5	0.0
160°-170°	4.5	0.0
170°-180°	1.7	0.0
0°-30°	15013.2	41.2
0°-40°	22538.7	61.8
0°-60°	32737.2	89.8
0°-90°	36425.3	99.9
90°-120°	10.4	0.0
90°-150°	22.7	0.1
90°-180°	34.0	0.1
0°-180°	36459.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	20643	
5°	20592	###
15°	19443	5462
25°	16596	7597
35°	12071	7526
45°	7606	5916
55°	4788	4282
65°	2528	2543
75°	895	989
85°	108	148
90°	14	11
95°	3	2
105°	3	3
115°	3	3
125°	3	3
135°	6	4
145°	8	5
155°	11	6
165°	17	4
175°	20	2
180°	20	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	20643.1
2.5°	20643.1
5°	20591.8
7.5°	20463.5
10°	20244.1
12.5°	19890.8
15°	19443.4
17.5°	18893.4
20°	18249.3
22.5°	17474.2
25°	16596.5
27.5°	15630.5
30°	14522.0
32.5°	13322.2
35°	12071.2
37.5°	10825.9
40°	9643.3
42.5°	8583.2
45°	7605.8
47.5°	6748.0
50°	5995.7
52.5°	5368.8
55°	4787.5
57.5°	4211.8
60°	3633.3
62.5°	3060.6
65°	2527.7
67.5°	2077.4
70°	1635.7
72.5°	1239.6
75°	894.8
77.5°	612.7
80°	384.7
82.5°	219.4
85°	108.3
87.5°	45.6
90°	14.2
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°	5.7
132.5°	5.7
135°	5.7
137.5°	5.7
140°	5.7
142.5°	8.5
145°	8.5
147.5°	8.5
150°	8.5
152.5°	11.4
155°	11.4
157.5°	14.2
160°	14.2
162.5°	14.2
165°	17.1
167.5°	17.1
170°	17.1
172.5°	17.1
175°	19.9
177.5°	19.9
180°	19.9

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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	25.63	27.04	26.00	27.36	27.67	25.63	27.04	26.00	27.36	27.67
	3H	26.56	27.82	26.94	28.15	28.52	26.56	27.82	26.94	28.15	28.52
	4H	26.76	27.93	27.17	28.29	28.67	26.76	27.93	27.17	28.29	28.67
	6H	26.81	27.89	27.23	28.26	28.66	26.81	27.89	27.23	28.26	28.66
	8H	26.80	27.82	27.23	28.22	28.62	26.80	27.82	27.23	28.22	28.62
	12H	26.77	27.75	27.20	28.13	28.57	26.77	27.75	27.20	28.13	28.57
4H	2H	25.95	27.12	26.35	27.47	27.86	25.95	27.12	26.35	27.47	27.86
	3H	27.02	27.99	27.44	28.39	28.79	27.02	27.99	27.44	28.39	28.79
	4H	27.27	28.14	27.71	28.55	29.00	27.27	28.14	27.71	28.55	29.00
	6H	27.37	28.11	27.83	28.56	29.03	27.37	28.11	27.83	28.56	29.03
	8H	27.35	28.05	27.82	28.50	28.97	27.35	28.05	27.82	28.50	28.97
	12H	27.33	27.95	27.82	28.43	28.90	27.33	27.95	27.82	28.43	28.90
8H	4H	27.30	28.00	27.77	28.45	28.92	27.30	28.00	27.77	28.45	28.92
	6H	27.42	27.99	27.92	28.48	28.96	27.42	27.99	27.92	28.48	28.96
	8H	27.41	27.92	27.93	28.43	28.93	27.41	27.92	27.93	28.43	28.93
	12H	27.40	27.85	27.91	28.34	28.91	27.40	27.85	27.91	28.34	28.91
12H	4H	27.28	27.89	27.76	28.37	28.85	27.28	27.89	27.76	28.37	28.85
	6H	27.38	27.89	27.90	28.40	28.90	27.38	27.89	27.90	28.40	28.90
	8H	27.40	27.84	27.91	28.34	28.91	27.40	27.84	27.91	28.34	28.91