

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: P978922

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

Issue Date: 3/27/2025

Test Information

Test Method: LM-79-2019
Report Number: P978922
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2405-087-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/27/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: UHBS2-2436-W-L83065-HIGH-3500K
Description: UHBS2 LED High Bay at 3500K and HIGH lumen setting
Light Source: -
Ballast/Driver: -

Summary

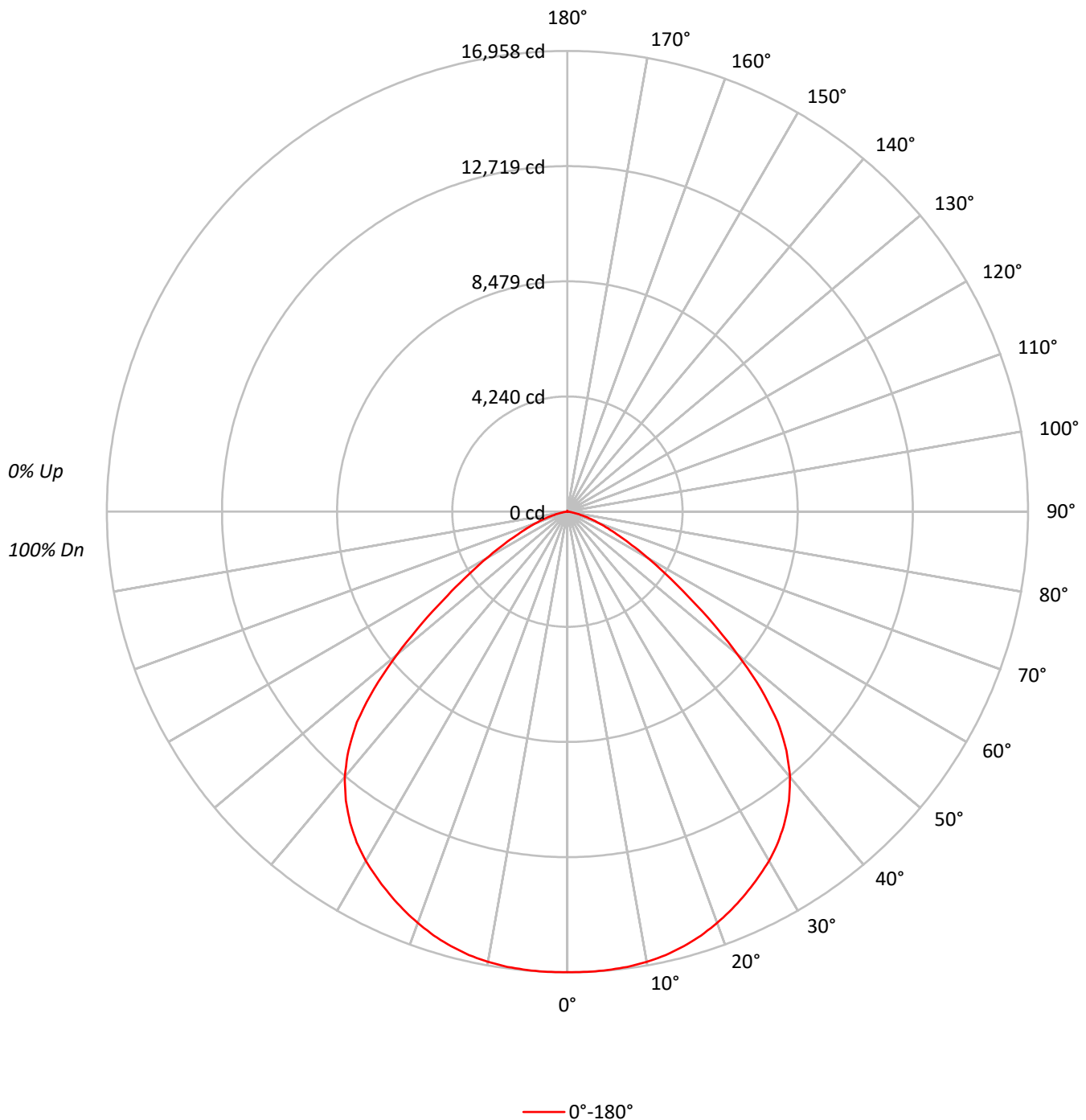
Lumens per Lamp: N/A
Luminaire Lumens: 38319.1 lumens
Efficiency: N/A
Efficacy: 162.7 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.3 / 1.36
Luminous Opening: Vertical Cylinder (Dia: 1.18' x H: 0.1')
CIE Type: Direct

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					0
RW	70	50	30	10		70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	107	104	101		108	105	102	99		101	98	96		97	95	93		94	92	90
2	103	96	90	86		100	94	89	85		91	86	83		88	84	81		85	82	79
3	95	86	79	73		93	84	78	73		82	76	72		79	74	70		76	73	69
4	88	77	70	64		86	76	69	63		74	67	63		71	66	62		69	65	61
5	81	70	62	56		79	69	61	56		67	60	55		65	59	54		63	58	54
6	75	63	55	49		74	62	55	49		61	54	49		59	53	48		58	52	48
7	70	58	50	44		68	57	49	44		56	49	44		54	48	43		53	47	43
8	65	53	45	40		64	52	45	40		51	44	39		50	44	39		49	43	39
9	61	49	41	36		60	48	41	36		47	40	36		46	40	35		45	39	35
10	57	45	38	33		56	45	37	33		44	37	32		43	37	32		42	36	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	168277
5°	167216
10°	166474
15°	165399
20°	163742
25°	161865
30°	160142
35°	157165
40°	151451
45°	138775
50°	111954
55°	80708
60°	57318
65°	39892
70°	27174
75°	16673
80°	7439
85°	2519

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 138775 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1613.7	4.2
10°-20°	4675.0	12.2
20°-30°	7161.3	18.7
30°-40°	8704.9	22.7
40°-50°	8284.2	21.6
50°-60°	4945.4	12.9
60°-70°	2146.6	5.6
70°-80°	682.6	1.8
80°-90°	76.2	0.2
90°-100°	2.7	0.0
100°-110°	2.1	0.0
110°-120°	2.2	0.0
120°-130°	3.6	0.0
130°-140°	4.0	0.0
140°-150°	4.8	0.0
150°-160°	4.8	0.0
160°-170°	3.7	0.0
170°-180°	1.4	0.0
0°-30°	13449.9	35.1
0°-40°	22154.9	57.8
0°-60°	35384.5	92.3
0°-90°	38289.9	99.9
90°-120°	7.1	0.0
90°-150°	19.4	0.1
90°-180°	29.0	0.1
0°-180°	38319.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	16952	
5°	16940	###
15°	16562	4675
25°	15525	7161
35°	13953	8705
45°	10956	8284
55°	5385	4945
65°	2093	2147
75°	610	683
85°	50	72
90°	6	5
95°	2	2
105°	2	2
115°	2	2
125°	4	4
135°	6	4
145°	8	5
155°	10	5
165°	14	4
175°	16	1
180°	18	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	16952.0
2.5°	16958.0
5°	16940.1
7.5°	16902.5
10°	16831.1
12.5°	16720.1
15°	16561.6
17.5°	16361.4
20°	16111.7
22.5°	15836.2
25°	15525.0
27.5°	15196.0
30°	14845.2
32.5°	14436.9
35°	13953.3
37.5°	13402.3
40°	12750.2
42.5°	11941.5
45°	10956.5
47.5°	9670.2
50°	8185.6
52.5°	6722.9
55°	5385.1
57.5°	4316.8
60°	3428.9
62.5°	2679.7
65°	2093.0
67.5°	1611.4
70°	1215.0
72.5°	886.0
75°	610.5
77.5°	386.5
80°	210.1
82.5°	101.1
85°	49.5
87.5°	21.8
90°	5.9
92.5°	2.0
95°	2.0
97.5°	2.0
100°	2.0
102.5°	2.0
105°	2.0
107.5°	2.0
110°	2.0



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	2.0
115°	2.0
117.5°	2.0
120°	4.0
122.5°	4.0
125°	4.0
127.5°	4.0
130°	4.0
132.5°	4.0
135°	5.9
137.5°	5.9
140°	5.9
142.5°	7.9
145°	7.9
147.5°	7.9
150°	7.9
152.5°	9.9
155°	9.9
157.5°	11.9
160°	11.9
162.5°	11.9
165°	13.9
167.5°	13.9
170°	13.9
172.5°	13.9
175°	15.9
177.5°	15.9
180°	17.8

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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	25.55	26.99	25.92	27.31	27.63	25.55	26.99	25.92	27.31	27.63
	3H	26.06	27.35	26.44	27.68	28.04	26.06	27.35	26.44	27.68	28.04
	4H	26.14	27.34	26.54	27.69	28.07	26.14	27.34	26.54	27.69	28.07
	6H	26.12	27.22	26.54	27.59	27.99	26.12	27.22	26.54	27.59	27.99
	8H	26.09	27.13	26.52	27.53	27.93	26.09	27.13	26.52	27.53	27.93
	12H	26.06	27.05	26.49	27.44	27.87	26.06	27.05	26.49	27.44	27.87
4H	2H	25.72	26.91	26.12	27.26	27.65	25.72	26.91	26.12	27.26	27.65
	3H	26.34	27.32	26.76	27.72	28.12	26.34	27.32	26.76	27.72	28.12
	4H	26.45	27.32	26.89	27.74	28.18	26.45	27.32	26.89	27.74	28.18
	6H	26.46	27.20	26.92	27.65	28.12	26.46	27.20	26.92	27.65	28.12
	8H	26.42	27.12	26.88	27.56	28.03	26.42	27.12	26.88	27.56	28.03
	12H	26.38	27.00	26.87	27.48	27.96	26.38	27.00	26.87	27.48	27.96
8H	4H	26.42	27.12	26.89	27.56	28.04	26.42	27.12	26.89	27.56	28.04
	6H	26.41	26.99	26.92	27.48	27.97	26.41	26.99	26.92	27.48	27.97
	8H	26.37	26.89	26.89	27.40	27.89	26.37	26.89	26.89	27.40	27.89
	12H	26.34	26.80	26.85	27.29	27.86	26.34	26.80	26.85	27.29	27.86
12H	4H	26.38	27.00	26.87	27.49	27.96	26.38	27.00	26.87	27.49	27.96
	6H	26.36	26.88	26.88	27.39	27.89	26.36	26.88	26.88	27.39	27.89
	8H	26.34	26.80	26.85	27.29	27.86	26.34	26.80	26.85	27.29	27.86