

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: P978928

Luminaire Tested: UHBS2-2436-W-L83065-LOW-4000K

Issue Date: 3/27/2025

Test Information

Test Method: LM-79-2019
Report Number: P978928
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-LOW-4000K
Description: UHBS2 LED High Bay at 4000K and LOW lumen setting
Light Source: -
Ballast/Driver: -

Summary

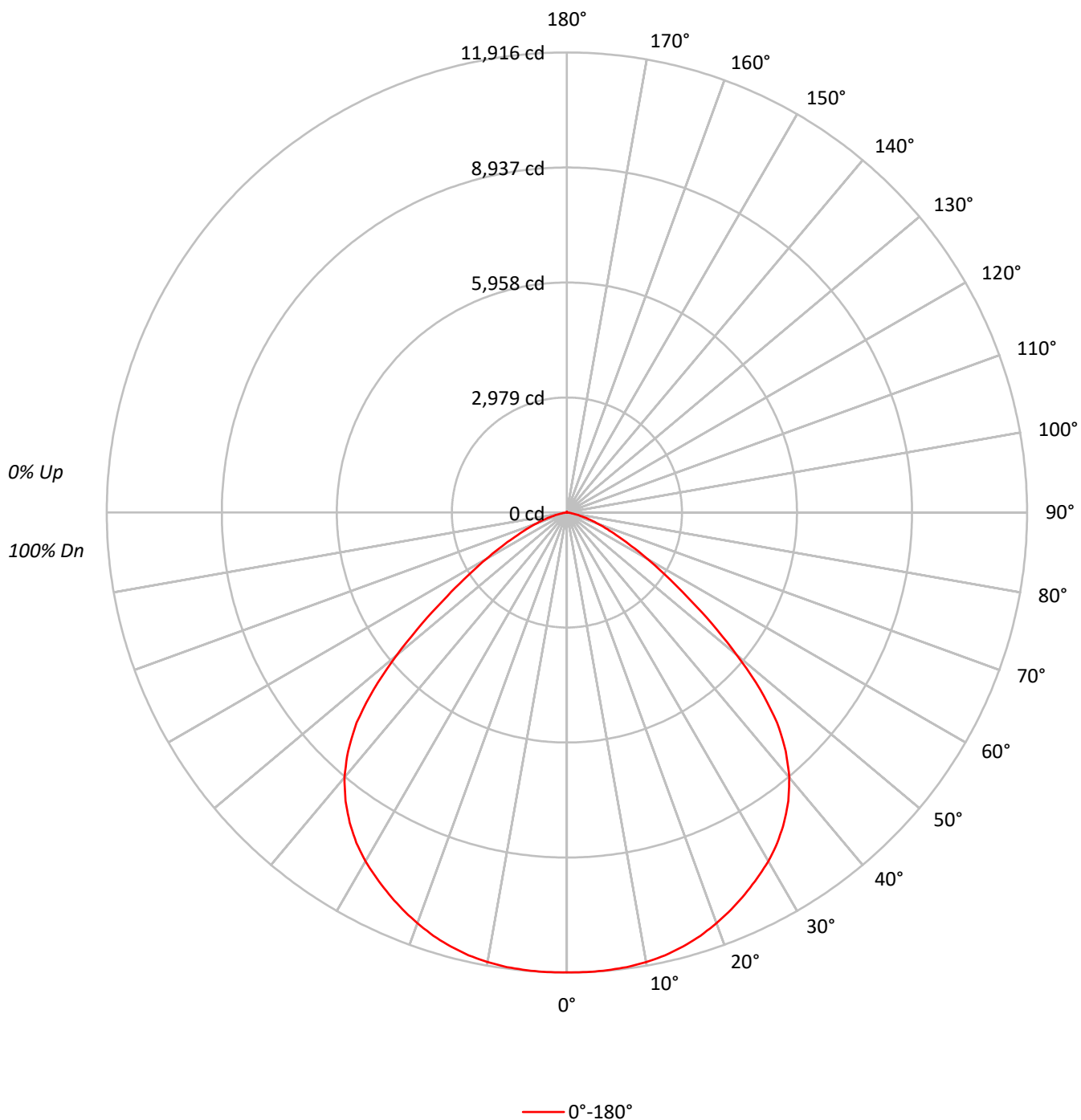
Lumens per Lamp: N/A
Luminaire Lumens: 26925.1 lumens
Efficiency: N/A
Efficacy: 176.2 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.3 / 1.36
Luminous Opening: Vertical Cylinder (Dia: 1.18' x H: 0.1')
CIE Type: Direct

Input Watts (W): 152.8
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 5.2
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P978928

CATALOG NUMBER: UHBS2-2436-W-L83065-LOW-4000K

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		94
2	103	96	90	86	100	94	89	85	91	86	83		88	84	81		85
3	95	86	79	73	93	84	78	73	82	76	72		79	74	70		76
4	88	77	70	64	86	76	69	63	74	67	63		71	66	62		69
5	81	70	62	56	79	69	61	56	67	60	55		65	59	54		63
6	75	63	55	49	74	62	55	49	61	54	49		59	53	48		58
7	70	58	50	44	68	57	49	44	56	49	44		54	48	43		53
8	65	53	45	40	64	52	45	40	51	44	39		50	44	39		49
9	61	49	41	36	60	48	41	36	47	40	36		46	40	35		45
10	57	45	38	33	56	45	37	33	44	37	32		43	37	32		42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	118241
5°	117495
10°	116974
15°	116219
20°	115054
25°	113735
30°	112524
35°	110432
40°	106418
45°	97510
50°	78666
55°	56710
60°	40274
65°	28029
70°	19093
75°	11713
80°	5226
85°	1771

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 97510 cd/sqm

TEST NUMBER: P978928

CATALOG NUMBER: UHBS2-2436-W-L83065-LOW-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1133.8	4.2
10°-20°	3284.9	12.2
20°-30°	5031.9	18.7
30°-40°	6116.5	22.7
40°-50°	5821.0	21.6
50°-60°	3474.9	12.9
60°-70°	1508.3	5.6
70°-80°	479.6	1.8
80°-90°	53.6	0.2
90°-100°	1.9	0.0
100°-110°	1.5	0.0
110°-120°	1.6	0.0
120°-130°	2.5	0.0
130°-140°	2.8	0.0
140°-150°	3.4	0.0
150°-160°	3.4	0.0
160°-170°	2.6	0.0
170°-180°	1.0	0.0
0°-30°	9450.6	35.1
0°-40°	15567.2	57.8
0°-60°	24863.0	92.3
0°-90°	26904.5	99.9
90°-120°	5.0	0.0
90°-150°	13.7	0.1
90°-180°	21.0	0.1
0°-180°	26925.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11911	
5°	11903	###
15°	11637	3285
25°	10909	5032
35°	9804	6117
45°	7699	5821
55°	3784	3475
65°	1471	1508
75°	429	480
85°	35	51
90°	4	3
95°	1	1
105°	1	1
115°	1	2
125°	3	3
135°	4	3
145°	6	3
155°	7	3
165°	10	3
175°	11	1
180°	12	

TEST NUMBER: P978928

CATALOG NUMBER: UHBS2-2436-W-L83065-LOW-4000K

CANDELA DISTRIBUTION (FULL):

0°	
0°	11911.4
2.5°	11915.6
5°	11903.0
7.5°	11876.6
10°	11826.5
12.5°	11748.5
15°	11637.1
17.5°	11496.4
20°	11320.9
22.5°	11127.3
25°	10908.7
27.5°	10677.5
30°	10431.0
32.5°	10144.1
35°	9804.3
37.5°	9417.2
40°	8959.0
42.5°	8390.8
45°	7698.6
47.5°	6794.8
50°	5751.7
52.5°	4723.9
55°	3783.9
57.5°	3033.2
60°	2409.3
62.5°	1882.9
65°	1470.6
67.5°	1132.2
70°	853.7
72.5°	622.5
75°	428.9
77.5°	271.6
80°	147.6
82.5°	71.0
85°	34.8
87.5°	15.3
90°	4.2
92.5°	1.4
95°	1.4
97.5°	1.4
100°	1.4
102.5°	1.4
105°	1.4
107.5°	1.4
110°	1.4



TEST NUMBER: P978928

CATALOG NUMBER: UHBS2-2436-W-L83065-LOW-4000K

CANDELA DISTRIBUTION (continued):

	0°
112.5°	1.4
115°	1.4
117.5°	1.4
120°	2.8
122.5°	2.8
125°	2.8
127.5°	2.8
130°	2.8
132.5°	2.8
135°	4.2
137.5°	4.2
140°	4.2
142.5°	5.6
145°	5.6
147.5°	5.6
150°	5.6
152.5°	7.0
155°	7.0
157.5°	8.4
160°	8.4
162.5°	8.4
165°	9.7
167.5°	9.7
170°	9.7
172.5°	9.7
175°	11.1
177.5°	11.1
180°	12.5

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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	24.32	25.77	24.69	26.08	26.40	24.32	25.77	24.69	26.08	26.40
	3H	24.84	26.12	25.22	26.45	26.81	24.84	26.12	25.22	26.45	26.81
	4H	24.91	26.11	25.32	26.46	26.84	24.91	26.11	25.32	26.46	26.84
	6H	24.90	26.00	25.31	26.37	26.76	24.90	26.00	25.31	26.37	26.76
	8H	24.87	25.91	25.30	26.30	26.70	24.87	25.91	25.30	26.30	26.70
	12H	24.83	25.83	25.26	26.21	26.64	24.83	25.83	25.26	26.21	26.64
4H	2H	24.49	25.69	24.90	26.04	26.42	24.49	25.69	24.90	26.04	26.42
	3H	25.12	26.09	25.53	26.49	26.90	25.12	26.09	25.53	26.49	26.90
	4H	25.23	26.09	25.66	26.51	26.96	25.23	26.09	25.66	26.51	26.96
	6H	25.23	25.98	25.69	26.42	26.89	25.23	25.98	25.69	26.42	26.89
	8H	25.19	25.89	25.66	26.34	26.81	25.19	25.89	25.66	26.34	26.81
	12H	25.15	25.77	25.64	26.26	26.73	25.15	25.77	25.64	26.26	26.73
8H	4H	25.19	25.89	25.66	26.34	26.81	25.19	25.89	25.66	26.34	26.81
	6H	25.19	25.76	25.69	26.26	26.74	25.19	25.76	25.69	26.26	26.74
	8H	25.14	25.66	25.66	26.18	26.67	25.14	25.66	25.66	26.18	26.67
	12H	25.11	25.57	25.62	26.06	26.63	25.11	25.57	25.62	26.06	26.63
12H	4H	25.16	25.78	25.64	26.26	26.73	25.16	25.78	25.64	26.26	26.73
	6H	25.14	25.65	25.65	26.17	26.66	25.14	25.65	25.65	26.17	26.66
	8H	25.11	25.57	25.62	26.07	26.64	25.11	25.57	25.62	26.07	26.64