

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: P978895

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

Issue Date: 3/27/2025

Test Information

Test Method: LM-79-2019
Report Number: P978895
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-6500K
Description: UHBS2 LED High Bay at 6500K and HIGH lumen setting
Light Source: -
Ballast/Driver: -

Summary

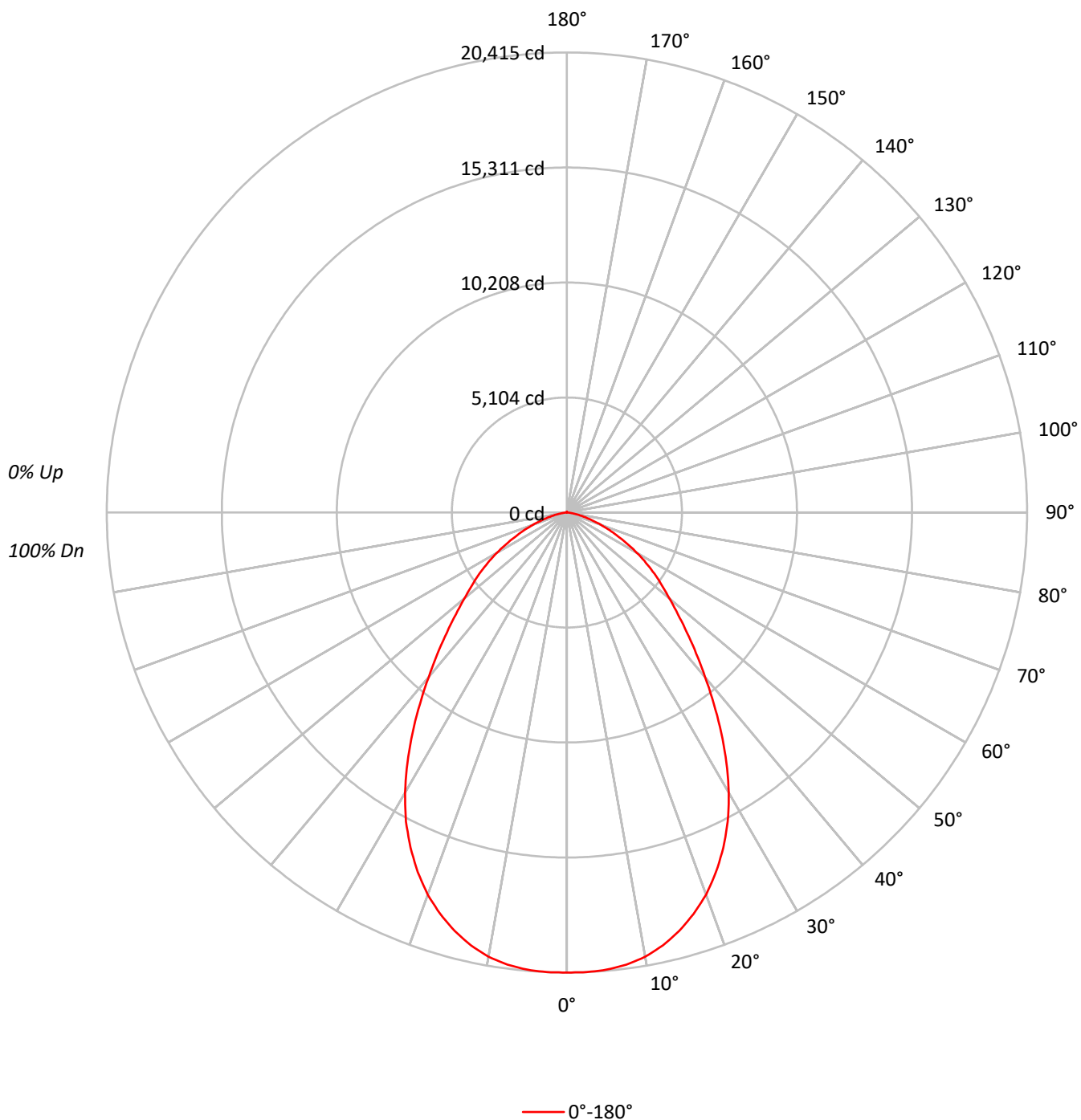
Lumens per Lamp: N/A
Luminaire Lumens: 36057.0 lumens
Efficiency: N/A
Efficacy: 150.8 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.11
Luminous Opening: Vertical Cylinder (Dia: 1.18' x H: 0.1')
CIE Type: Direct

Input Watts (W): 239.1
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

TEST NUMBER: P978895

CATALOG NUMBER: UHBS2-2436-M-L83065-HIGH-6500K

Luminous Intensity Polar Plot



TEST NUMBER: P978895

CATALOG NUMBER: UHBS2-2436-M-L83065-HIGH-6500K

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°	202652
5°	201016
10°	198019
15°	192032
20°	183417
25°	171124
30°	154923
35°	134463
40°	113280
45°	95270
50°	81098
55°	70957
60°	60064
65°	47643
70°	36178
75°	24166
80°	13472
85°	5449

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 95270 cd/sqm

TEST NUMBER: P978895

CATALOG NUMBER: UHBS2-2436-M-L83065-HIGH-6500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1932.9	5.4
10°-20°	5401.2	15.0
20°-30°	7513.1	20.8
30°-40°	7442.4	20.6
40°-50°	5850.8	16.2
50°-60°	4235.1	11.7
60°-70°	2515.4	7.0
70°-80°	977.9	2.7
80°-90°	154.0	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°	4.3	0.0
140°-150°	5.1	0.0
150°-160°	5.5	0.0
160°-170°	4.4	0.0
170°-180°	1.7	0.0
0°-30°	14847.2	41.2
0°-40°	22289.6	61.8
0°-60°	32375.4	89.8
0°-90°	36022.7	99.9
90°-120°	10.3	0.0
90°-150°	22.6	0.1
90°-180°	34.0	0.1
0°-180°	36057.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	20415	
5°	20364	###
15°	19228	5401
25°	16413	7513
35°	11938	7442
45°	7522	5851
55°	4734	4235
65°	2500	2515
75°	885	978
85°	107	146
90°	14	10
95°	3	2
105°	3	3
115°	3	3
125°	3	3
135°	6	4
145°	8	5
155°	11	5
165°	17	4
175°	20	2
180°	20	

TEST NUMBER: P978895

CATALOG NUMBER: UHBS2-2436-M-L83065-HIGH-6500K

CANDELA DISTRIBUTION (FULL):

0°	
0°	20414.9
2.5°	20414.9
5°	20364.2
7.5°	20237.4
10°	20020.4
12.5°	19670.9
15°	19228.4
17.5°	18684.5
20°	18047.6
22.5°	17281.1
25°	16413.1
27.5°	15457.7
30°	14361.4
32.5°	13175.0
35°	11937.8
37.5°	10706.3
40°	9536.7
42.5°	8488.4
45°	7521.7
47.5°	6673.5
50°	5929.5
52.5°	5309.5
55°	4734.5
57.5°	4165.3
60°	3593.2
62.5°	3026.7
65°	2499.7
67.5°	2054.5
70°	1617.6
72.5°	1225.9
75°	884.9
77.5°	605.9
80°	380.5
82.5°	217.0
85°	107.1
87.5°	45.1
90°	14.1
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



TEST NUMBER: P978895

CATALOG NUMBER: UHBS2-2436-M-L83065-HIGH-6500K

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°	5.6
132.5°	5.6
135°	5.6
137.5°	5.6
140°	5.6
142.5°	8.5
145°	8.5
147.5°	8.5
150°	8.5
152.5°	11.3
155°	11.3
157.5°	14.1
160°	14.1
162.5°	14.1
165°	16.9
167.5°	16.9
170°	16.9
172.5°	16.9
175°	19.7
177.5°	19.7
180°	19.7

TEST NUMBER: P978895

CATALOG NUMBER: UHBS2-2436-M-L83065-HIGH-6500K

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	25.59	27.00	25.96	27.32	27.64	25.59	27.00	25.96	27.32	27.64
	3H	26.52	27.78	26.91	28.11	28.48	26.52	27.78	26.91	28.11	28.48
	4H	26.72	27.90	27.13	28.25	28.63	26.72	27.90	27.13	28.25	28.63
	6H	26.78	27.85	27.19	28.23	28.62	26.78	27.85	27.19	28.23	28.62
	8H	26.76	27.78	27.19	28.18	28.58	26.76	27.78	27.19	28.18	28.58
	12H	26.73	27.71	27.17	28.10	28.53	26.73	27.71	27.17	28.10	28.53
4H	2H	25.91	27.08	26.31	27.44	27.82	25.91	27.08	26.31	27.44	27.82
	3H	26.98	27.95	27.40	28.35	28.76	26.98	27.95	27.40	28.35	28.76
	4H	27.23	28.10	27.67	28.52	28.96	27.23	28.10	27.67	28.52	28.96
	6H	27.33	28.07	27.79	28.52	28.99	27.33	28.07	27.79	28.52	28.99
	8H	27.32	28.01	27.78	28.46	28.93	27.32	28.01	27.78	28.46	28.93
	12H	27.29	27.91	27.78	28.39	28.87	27.29	27.91	27.78	28.39	28.87
8H	4H	27.27	27.96	27.73	28.41	28.88	27.27	27.96	27.73	28.41	28.88
	6H	27.38	27.95	27.88	28.44	28.92	27.38	27.95	27.88	28.44	28.92
	8H	27.37	27.88	27.89	28.40	28.89	27.37	27.88	27.89	28.40	28.89
	12H	27.36	27.81	27.87	28.30	28.87	27.36	27.81	27.87	28.30	28.87
12H	4H	27.24	27.85	27.72	28.34	28.81	27.24	27.85	27.72	28.34	28.81
	6H	27.34	27.85	27.86	28.36	28.86	27.34	27.85	27.86	28.36	28.86
	8H	27.36	27.80	27.87	28.30	28.87	27.36	27.80	27.87	28.30	28.87