

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: P978900

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

Issue Date: 3/27/2025

Test Information

Test Method: LM-79-2019
Report Number: P978900
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-LOW-6500K
Description: UHBS2 LED High Bay at 6500K and LOW lumen setting
Light Source: -
Ballast/Driver: -

Summary

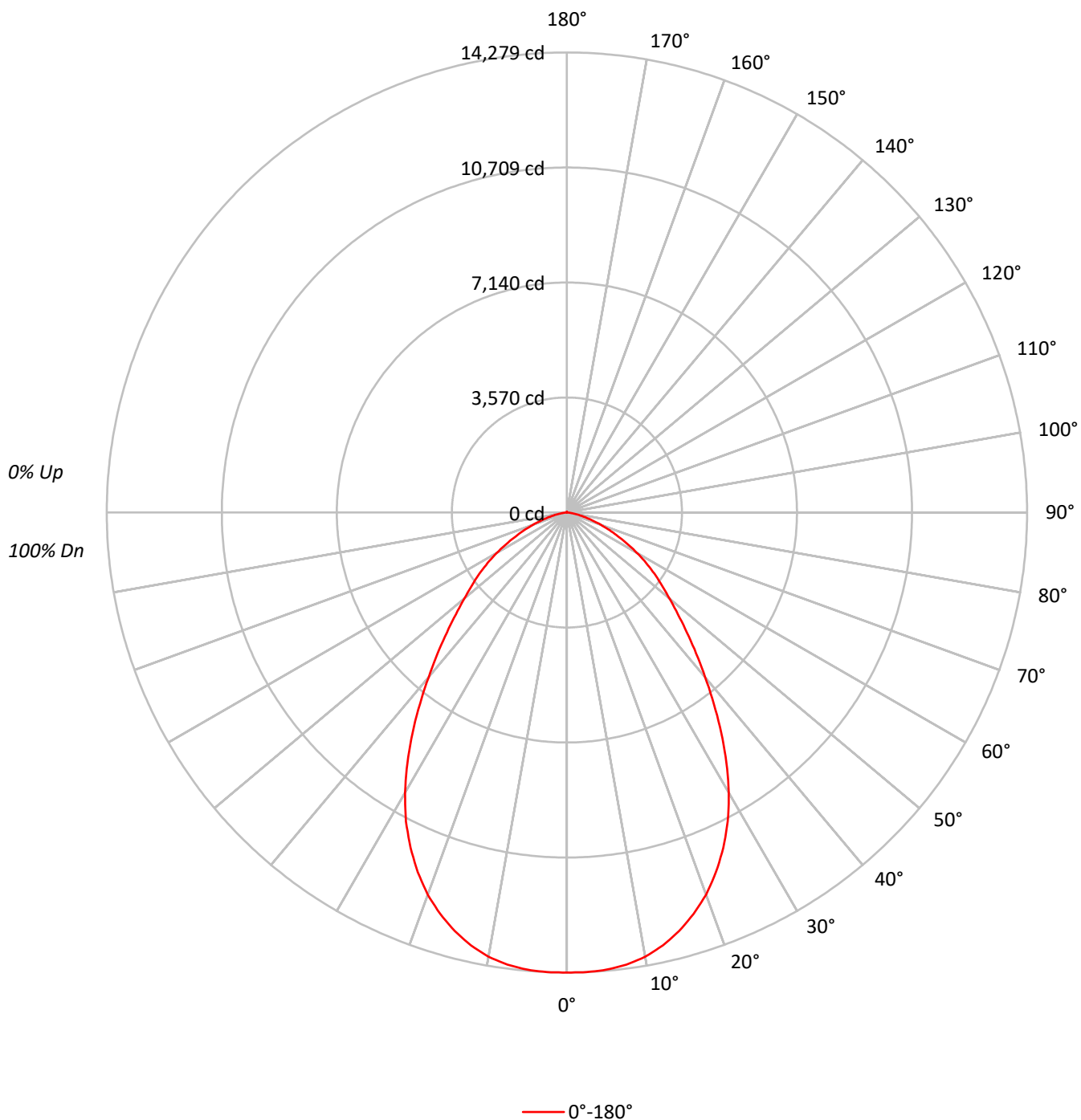
Lumens per Lamp: N/A
Luminaire Lumens: 25219.0 lumens
Efficiency: N/A
Efficacy: 163.5 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.11
Luminous Opening: Vertical Cylinder (Dia: 1.18' x H: 0.1')
CIE Type: Direct

Input Watts (W): 154.2
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: P978900

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

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°	141739
5°	140594
10°	138498
15°	134312
20°	128286
25°	119687
30°	108357
35°	94046
40°	79231
45°	66633
50°	56721
55°	49629
60°	42009
65°	33324
70°	25304
75°	16902
80°	9422
85°	3811

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 66633 cd/sqm

TEST NUMBER: P978900

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1351.9	5.4
10°-20°	3777.7	15.0
20°-30°	5254.8	20.8
30°-40°	5205.3	20.6
40°-50°	4092.1	16.2
50°-60°	2962.1	11.7
60°-70°	1759.3	7.0
70°-80°	684.0	2.7
80°-90°	107.7	0.4
90°-100°	3.3	0.0
100°-110°	2.1	0.0
110°-120°	2.0	0.0
120°-130°	2.0	0.0
130°-140°	3.0	0.0
140°-150°	3.5	0.0
150°-160°	3.8	0.0
160°-170°	3.1	0.0
170°-180°	1.2	0.0
0°-30°	10384.4	41.2
0°-40°	15589.8	61.8
0°-60°	22644.0	89.8
0°-90°	25195.0	99.9
90°-120°	7.4	0.0
90°-150°	15.9	0.1
90°-180°	24.0	0.1
0°-180°	25219.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	14279	
5°	14243	###
15°	13449	3778
25°	11480	5255
35°	8350	5205
45°	5261	4092
55°	3311	2962
65°	1748	1759
75°	619	684
85°	75	102
90°	10	7
95°	2	2
105°	2	2
115°	2	2
125°	2	2
135°	4	3
145°	6	4
155°	8	4
165°	12	3
175°	14	1
180°	14	

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

CANDELA DISTRIBUTION (FULL):

0°	
0°	14278.6
2.5°	14278.6
5°	14243.1
7.5°	14154.4
10°	14002.6
12.5°	13758.2
15°	13448.8
17.5°	13068.3
20°	12622.9
22.5°	12086.7
25°	11479.6
27.5°	10811.4
30°	10044.7
32.5°	9214.9
35°	8349.5
37.5°	7488.2
40°	6670.2
42.5°	5936.9
45°	5260.8
47.5°	4667.5
50°	4147.2
52.5°	3713.5
55°	3311.4
57.5°	2913.3
60°	2513.1
62.5°	2117.0
65°	1748.4
67.5°	1436.9
70°	1131.4
72.5°	857.4
75°	618.9
77.5°	423.8
80°	266.1
82.5°	151.8
85°	74.9
87.5°	31.5
90°	9.9
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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CATALOG NUMBER: UHBS2-2436-M-L83065-LOW-6500K

CANDELA DISTRIBUTION (continued):

	0°
112.5°	2.0
115°	2.0
117.5°	2.0
120°	2.0
122.5°	2.0
125°	2.0
127.5°	2.0
130°	3.9
132.5°	3.9
135°	3.9
137.5°	3.9
140°	3.9
142.5°	5.9
145°	5.9
147.5°	5.9
150°	5.9
152.5°	7.9
155°	7.9
157.5°	9.9
160°	9.9
162.5°	9.9
165°	11.8
167.5°	11.8
170°	11.8
172.5°	11.8
175°	13.8
177.5°	13.8
180°	13.8

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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	24.35	25.76	24.72	26.08	26.39	24.35	25.76	24.72	26.08	26.39
	3H	25.28	26.54	25.66	26.87	27.24	25.28	26.54	25.66	26.87	27.24
	4H	25.48	26.65	25.88	27.01	27.39	25.48	26.65	25.88	27.01	27.39
	6H	25.53	26.61	25.95	26.98	27.38	25.53	26.61	25.95	26.98	27.38
	8H	25.52	26.54	25.95	26.93	27.34	25.52	26.54	25.95	26.93	27.34
	12H	25.49	26.47	25.92	26.85	27.29	25.49	26.47	25.92	26.85	27.29
4H	2H	24.67	25.84	25.07	26.19	26.58	24.67	25.84	25.07	26.19	26.58
	3H	25.74	26.70	26.15	27.11	27.51	25.74	26.70	26.15	27.11	27.51
	4H	25.99	26.85	26.43	27.27	27.72	25.99	26.85	26.43	27.27	27.72
	6H	26.09	26.83	26.55	27.28	27.75	26.09	26.83	26.55	27.28	27.75
	8H	26.07	26.77	26.54	27.22	27.69	26.07	26.77	26.54	27.22	27.69
	12H	26.05	26.67	26.54	27.15	27.62	26.05	26.67	26.54	27.15	27.62
8H	4H	26.02	26.72	26.49	27.17	27.64	26.02	26.72	26.49	27.17	27.64
	6H	26.14	26.70	26.64	27.20	27.68	26.14	26.70	26.64	27.20	27.68
	8H	26.13	26.64	26.65	27.15	27.65	26.13	26.64	26.65	27.15	27.65
	12H	26.12	26.56	26.63	27.06	27.63	26.12	26.56	26.63	27.06	27.63
12H	4H	25.99	26.61	26.48	27.09	27.57	25.99	26.61	26.48	27.09	27.57
	6H	26.10	26.61	26.62	27.12	27.61	26.10	26.61	26.62	27.12	27.61
	8H	26.11	26.56	26.63	27.06	27.63	26.11	26.56	26.63	27.06	27.63