

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: P978897

Luminaire Tested: UHBS2-2436-M-L83065-LOW-3500K

Issue Date: 3/27/2025

Test Information

Test Method: LM-79-2019
Report Number: P978897
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-3500K
Description: UHBS2 LED High Bay at 3500K and LOW lumen setting
Light Source: -
Ballast/Driver: -

Summary

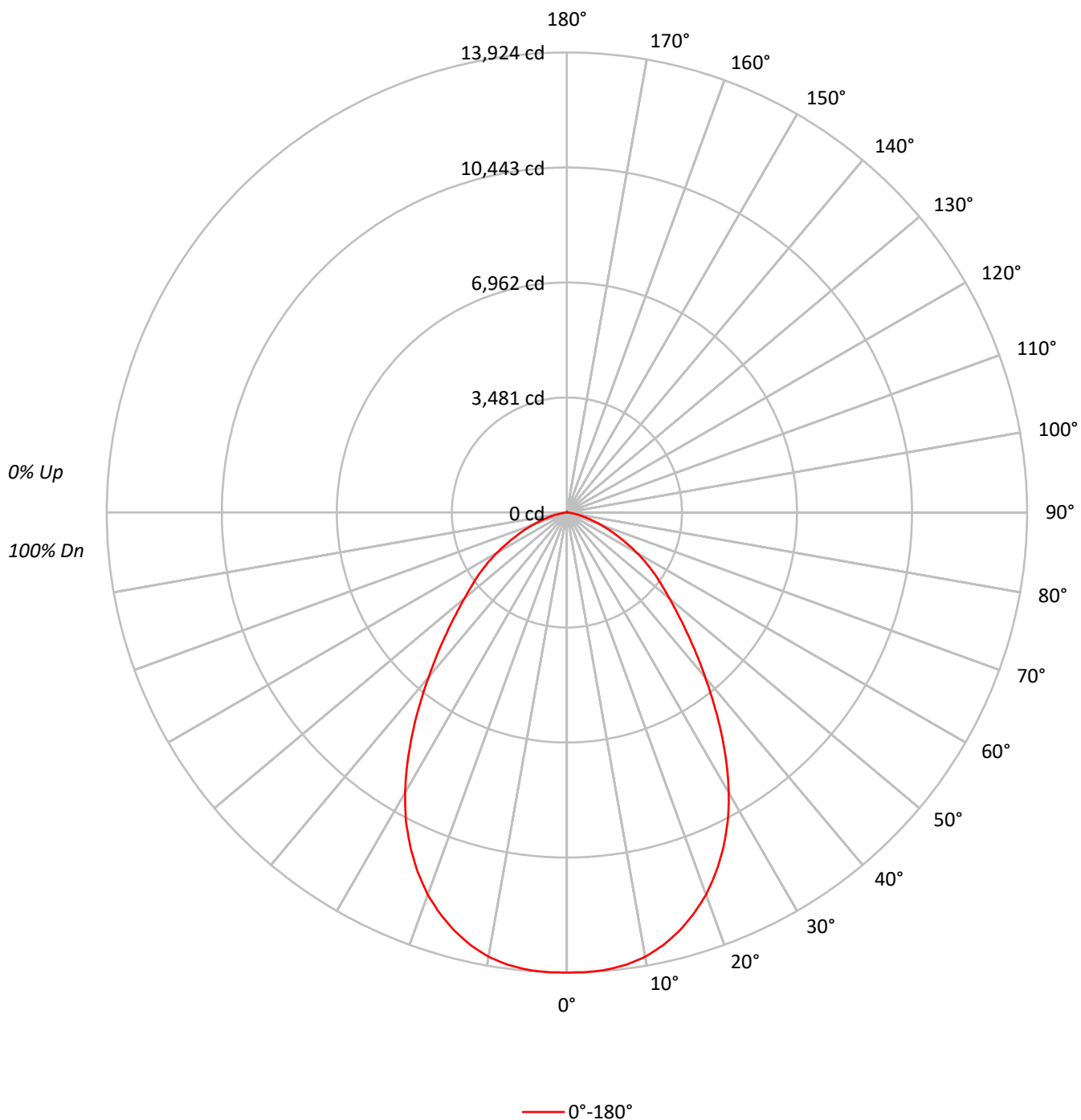
Lumens per Lamp: N/A
Luminaire Lumens: 24591.8 lumens
Efficiency: N/A
Efficacy: 159.3 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.11
Luminous Opening: Vertical Cylinder (Dia: 1.18' x H: 0.1')
CIE Type: Direct

Input Watts (W): 154.4
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

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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°	138215
5°	137099
10°	135055
15°	130972
20°	125096
25°	116712
30°	105663
35°	91708
40°	77260
45°	64976
50°	55311
55°	48395
60°	40966
65°	32495
70°	24675
75°	16481
80°	9188
85°	3714

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 64976 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1318.3	5.4
10°-20°	3683.8	15.0
20°-30°	5124.2	20.8
30°-40°	5075.9	20.6
40°-50°	3990.4	16.2
50°-60°	2888.4	11.7
60°-70°	1715.6	7.0
70°-80°	667.0	2.7
80°-90°	105.0	0.4
90°-100°	3.1	0.0
100°-110°	2.0	0.0
110°-120°	1.9	0.0
120°-130°	1.9	0.0
130°-140°	2.9	0.0
140°-150°	3.5	0.0
150°-160°	3.7	0.0
160°-170°	3.0	0.0
170°-180°	1.2	0.0
0°-30°	10126.3	41.2
0°-40°	15202.2	61.8
0°-60°	22081.0	89.8
0°-90°	24568.6	99.9
90°-120°	7.0	0.0
90°-150°	15.3	0.1
90°-180°	23.0	0.1
0°-180°	24591.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	13924	
5°	13889	###
15°	13114	3684
25°	11194	5124
35°	8142	5076
45°	5130	3990
55°	3229	2888
65°	1705	1716
75°	604	667
85°	73	100
90°	10	7
95°	2	2
105°	2	2
115°	2	2
125°	2	2
135°	4	3
145°	6	3
155°	8	4
165°	12	3
175°	14	1
180°	14	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	13923.6
2.5°	13923.6
5°	13889.0
7.5°	13802.5
10°	13654.5
12.5°	13416.2
15°	13114.4
17.5°	12743.4
20°	12309.0
22.5°	11786.2
25°	11194.2
27.5°	10542.6
30°	9795.0
32.5°	8985.8
35°	8142.0
37.5°	7302.0
40°	6504.3
42.5°	5789.3
45°	5130.0
47.5°	4551.5
50°	4044.1
52.5°	3621.2
55°	3229.1
57.5°	2840.8
60°	2450.7
62.5°	2064.3
65°	1704.9
67.5°	1401.2
70°	1103.3
72.5°	836.1
75°	603.5
77.5°	413.2
80°	259.5
82.5°	148.0
85°	73.0
87.5°	30.8
90°	9.6
92.5°	1.9
95°	1.9
97.5°	1.9
100°	1.9
102.5°	1.9
105°	1.9
107.5°	1.9
110°	1.9



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	1.9
115°	1.9
117.5°	1.9
120°	1.9
122.5°	1.9
125°	1.9
127.5°	1.9
130°	3.8
132.5°	3.8
135°	3.8
137.5°	3.8
140°	3.8
142.5°	5.8
145°	5.8
147.5°	5.8
150°	5.8
152.5°	7.7
155°	7.7
157.5°	9.6
160°	9.6
162.5°	9.6
165°	11.5
167.5°	11.5
170°	11.5
172.5°	11.5
175°	13.5
177.5°	13.5
180°	13.5

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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	24.26	25.67	24.63	25.99	26.31	24.26	25.67	24.63	25.99	26.31
	3H	25.20	26.45	25.58	26.78	27.15	25.20	26.45	25.58	26.78	27.15
	4H	25.39	26.57	25.80	26.92	27.30	25.39	26.57	25.80	26.92	27.30
	6H	25.45	26.53	25.86	26.90	27.29	25.45	26.53	25.86	26.90	27.29
	8H	25.43	26.45	25.86	26.85	27.25	25.43	26.45	25.86	26.85	27.25
	12H	25.40	26.38	25.84	26.77	27.20	25.40	26.38	25.84	26.77	27.20
4H	2H	24.58	25.75	24.98	26.11	26.49	24.58	25.75	24.98	26.11	26.49
	3H	25.65	26.62	26.07	27.02	27.43	25.65	26.62	26.07	27.02	27.43
	4H	25.90	26.77	26.34	27.19	27.63	25.90	26.77	26.34	27.19	27.63
	6H	26.00	26.75	26.46	27.19	27.66	26.00	26.75	26.46	27.19	27.66
	8H	25.99	26.68	26.45	27.13	27.60	25.99	26.68	26.45	27.13	27.60
	12H	25.96	26.58	26.45	27.06	27.54	25.96	26.58	26.45	27.06	27.54
8H	4H	25.94	26.63	26.40	27.08	27.55	25.94	26.63	26.40	27.08	27.55
	6H	26.05	26.62	26.55	27.11	27.60	26.05	26.62	26.55	27.11	27.60
	8H	26.04	26.55	26.56	27.07	27.56	26.04	26.55	26.56	27.07	27.56
	12H	26.03	26.48	26.54	26.97	27.54	26.03	26.48	26.54	26.97	27.54
12H	4H	25.91	26.52	26.39	27.01	27.48	25.91	26.52	26.39	27.01	27.48
	6H	26.01	26.52	26.53	27.03	27.53	26.01	26.52	26.53	27.03	27.53
	8H	26.03	26.48	26.54	26.97	27.54	26.03	26.48	26.54	26.97	27.54