

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: P978899

Luminaire Tested: UHBS2-2436-M-L83065-LOW-5000K

Issue Date: 3/27/2025

Test Information

Test Method: LM-79-2019
Report Number: P978899
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-5000K
Description: UHBS2 LED High Bay at 5000K and LOW lumen setting
Light Source: -
Ballast/Driver: -

Summary

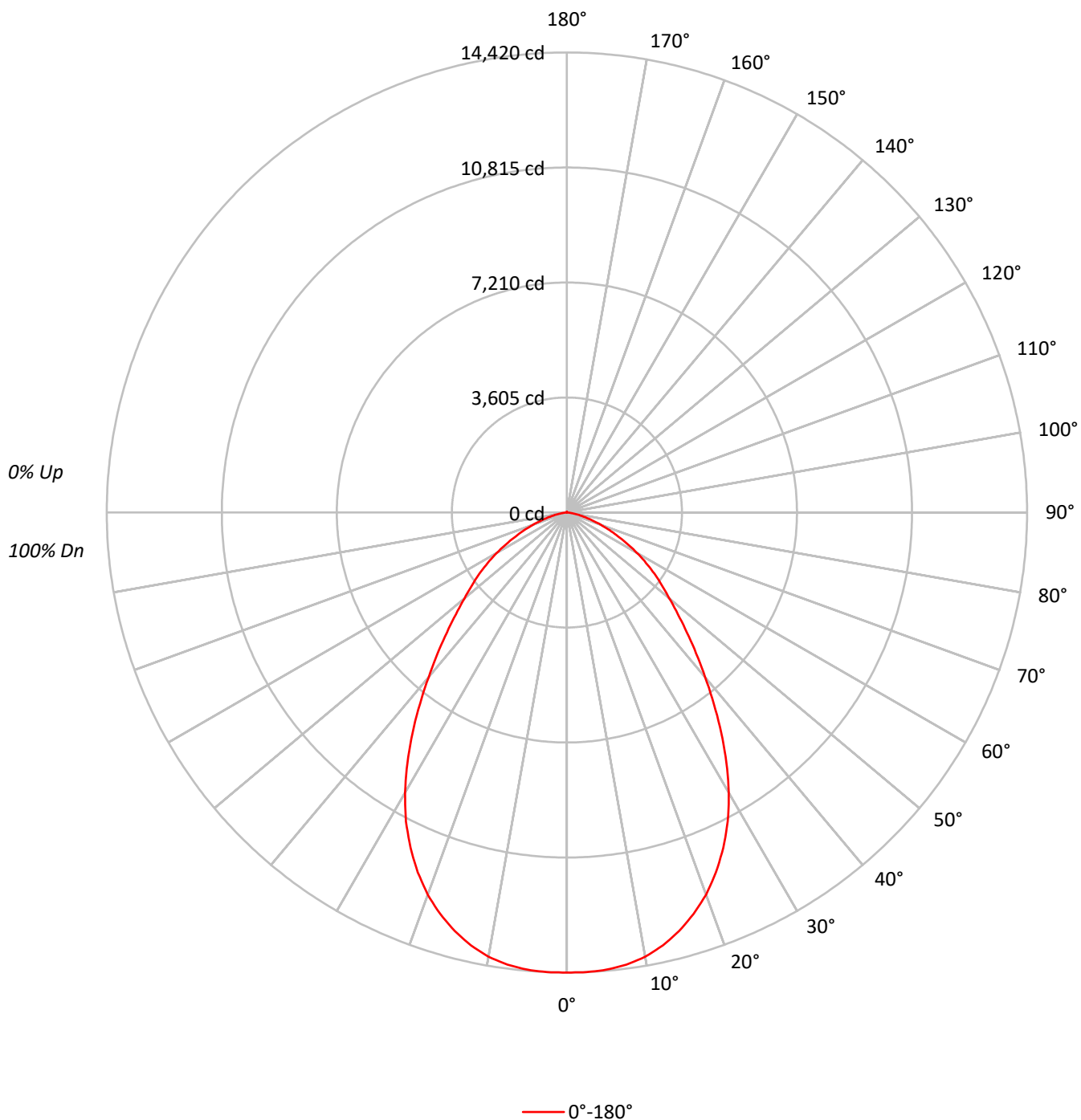
Lumens per Lamp: N/A
Luminaire Lumens: 25469.1 lumens
Efficiency: N/A
Efficacy: 165.7 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.11
Luminous Opening: Vertical Cylinder (Dia: 1.18' x H: 0.1')
CIE Type: Direct

Input Watts (W): 153.7
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°	143144
5°	141988
10°	139871
15°	135643
20°	129557
25°	120874
30°	109431
35°	94978
40°	80016
45°	67294
50°	57283
55°	50122
60°	42427
65°	33653
70°	25554
75°	17071
80°	9514
85°	3846

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 67294 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1365.3	5.4
10°-20°	3815.2	15.0
20°-30°	5306.9	20.8
30°-40°	5256.9	20.6
40°-50°	4132.7	16.2
50°-60°	2991.5	11.7
60°-70°	1776.7	7.0
70°-80°	690.8	2.7
80°-90°	108.8	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°	3.1	0.0
140°-150°	3.6	0.0
150°-160°	3.9	0.0
160°-170°	3.1	0.0
170°-180°	1.2	0.0
0°-30°	10487.4	41.2
0°-40°	15744.3	61.8
0°-60°	22868.5	89.8
0°-90°	25444.8	99.9
90°-120°	7.4	0.0
90°-150°	16.1	0.1
90°-180°	24.0	0.1
0°-180°	25469.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	14420	
5°	14384	###
15°	13582	3815
25°	11593	5307
35°	8432	5257
45°	5313	4133
55°	3344	2991
65°	1766	1777
75°	625	691
85°	76	103
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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CANDELA DISTRIBUTION (FULL):

0°	
0°	14420.1
2.5°	14420.1
5°	14384.3
7.5°	14294.7
10°	14141.5
12.5°	13894.6
15°	13582.1
17.5°	13197.9
20°	12748.0
22.5°	12206.6
25°	11593.4
27.5°	10918.6
30°	10144.3
32.5°	9306.2
35°	8432.3
37.5°	7562.4
40°	6736.3
42.5°	5995.8
45°	5313.0
47.5°	4713.8
50°	4188.3
52.5°	3750.4
55°	3344.3
57.5°	2942.2
60°	2538.1
62.5°	2137.9
65°	1765.7
67.5°	1451.2
70°	1142.6
72.5°	865.9
75°	625.1
77.5°	428.0
80°	268.7
82.5°	153.3
85°	75.6
87.5°	31.9
90°	10.0
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°	2.0
122.5°	2.0
125°	2.0
127.5°	2.0
130°	4.0
132.5°	4.0
135°	4.0
137.5°	4.0
140°	4.0
142.5°	6.0
145°	6.0
147.5°	6.0
150°	6.0
152.5°	8.0
155°	8.0
157.5°	10.0
160°	10.0
162.5°	10.0
165°	11.9
167.5°	11.9
170°	11.9
172.5°	11.9
175°	13.9
177.5°	13.9
180°	13.9

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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	24.39	25.80	24.75	26.11	26.43	24.39	25.80	24.75	26.11	26.43
	3H	25.32	26.57	25.70	26.90	27.27	25.32	26.57	25.70	26.90	27.27
	4H	25.52	26.69	25.92	27.04	27.42	25.52	26.69	25.92	27.04	27.42
	6H	25.57	26.65	25.98	27.02	27.41	25.57	26.65	25.98	27.02	27.41
	8H	25.55	26.58	25.98	26.97	27.37	25.55	26.58	25.98	26.97	27.37
	12H	25.52	26.50	25.96	26.89	27.32	25.52	26.50	25.96	26.89	27.32
4H	2H	24.70	25.88	25.11	26.23	26.61	24.70	25.88	25.11	26.23	26.61
	3H	25.78	26.74	26.19	27.14	27.55	25.78	26.74	26.19	27.14	27.55
	4H	26.03	26.89	26.46	27.31	27.75	26.03	26.89	26.46	27.31	27.75
	6H	26.12	26.87	26.58	27.31	27.78	26.12	26.87	26.58	27.31	27.78
	8H	26.11	26.80	26.58	27.25	27.72	26.11	26.80	26.58	27.25	27.72
	12H	26.08	26.70	26.57	27.18	27.66	26.08	26.70	26.57	27.18	27.66
8H	4H	26.06	26.75	26.53	27.20	27.67	26.06	26.75	26.53	27.20	27.67
	6H	26.17	26.74	26.67	27.24	27.72	26.17	26.74	26.67	27.24	27.72
	8H	26.16	26.67	26.68	27.19	27.68	26.16	26.67	26.68	27.19	27.68
	12H	26.15	26.60	26.66	27.09	27.67	26.15	26.60	26.66	27.09	27.67
12H	4H	26.03	26.65	26.52	27.13	27.60	26.03	26.65	26.52	27.13	27.60
	6H	26.13	26.64	26.65	27.16	27.65	26.13	26.64	26.65	27.16	27.65
	8H	26.15	26.60	26.66	27.09	27.66	26.15	26.60	26.66	27.09	27.66

END OF REPORT