

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: P978898

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

Issue Date: 3/27/2025

Test Information

Test Method: LM-79-2019
Report Number: P978898
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-4000K
Description: UHBS2 LED High Bay at 4000K and LOW lumen setting
Light Source: -
Ballast/Driver: -

Summary

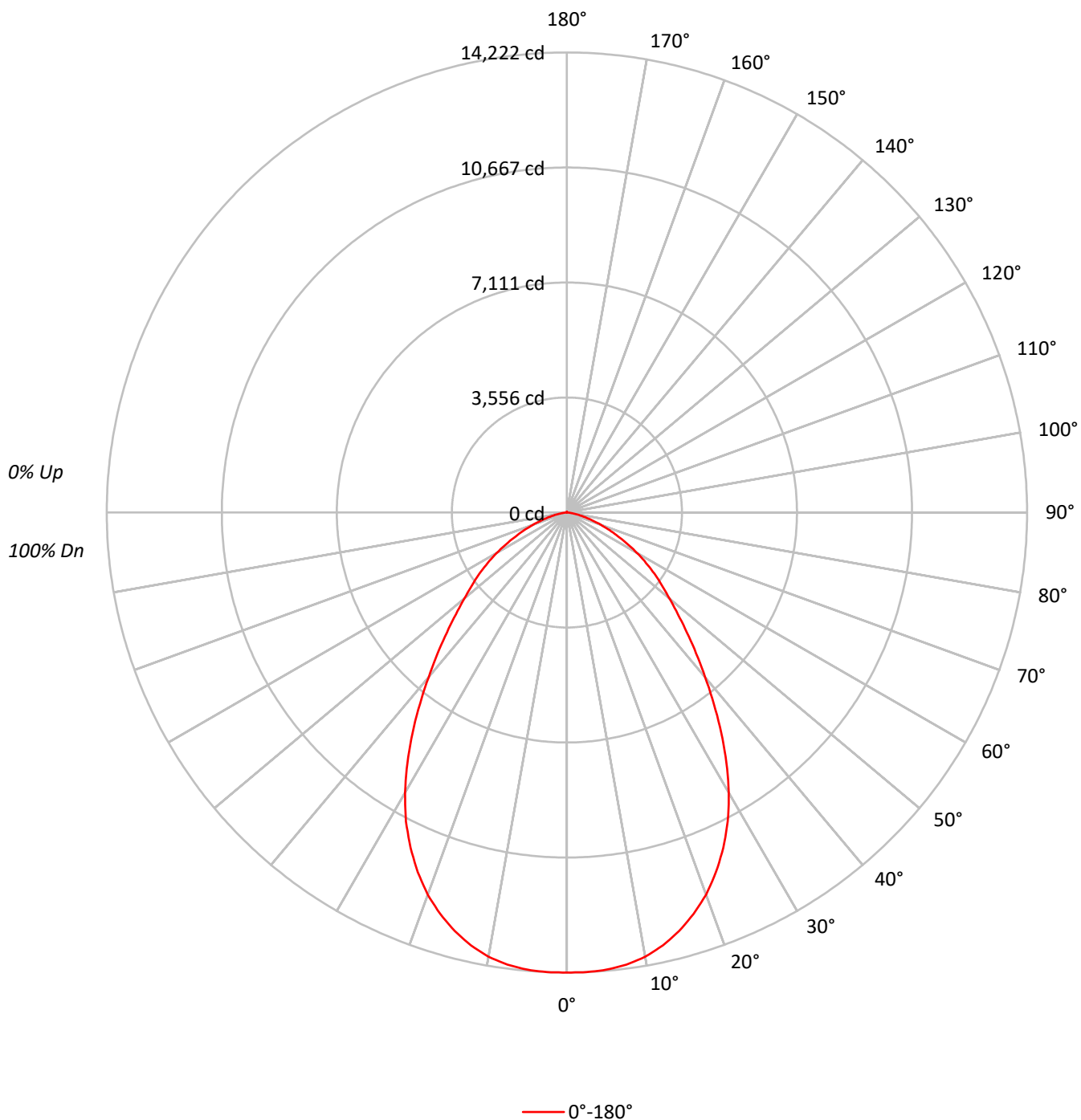
Lumens per Lamp: N/A
Luminaire Lumens: 25119.1 lumens
Efficiency: N/A
Efficacy: 164.4 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.11
Luminous Opening: Vertical Cylinder (Dia: 1.18' x H: 0.1')
CIE Type: Direct

Input Watts (W): 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

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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°	141177
5°	140036
10°	137949
15°	133779
20°	127777
25°	119213
30°	107928
35°	93673
40°	78916
45°	66370
50°	56495
55°	49433
60°	41844
65°	33190
70°	25203
75°	16836
80°	9383
85°	3796

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 66370 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1346.6	5.4
10°-20°	3762.7	15.0
20°-30°	5234.0	20.8
30°-40°	5184.7	20.6
40°-50°	4075.9	16.2
50°-60°	2950.3	11.7
60°-70°	1752.3	7.0
70°-80°	681.3	2.7
80°-90°	107.3	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°	10343.3	41.2
0°-40°	15528.0	61.8
0°-60°	22554.2	89.8
0°-90°	25095.1	99.9
90°-120°	7.4	0.0
90°-150°	15.9	0.1
90°-180°	24.0	0.1
0°-180°	25119.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	14222	
5°	14187	###
15°	13395	3763
25°	11434	5234
35°	8316	5185
45°	5240	4076
55°	3298	2950
65°	1741	1752
75°	616	681
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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CANDELA DISTRIBUTION (FULL):

0°	
0°	14222.0
2.5°	14222.0
5°	14186.6
7.5°	14098.3
10°	13947.1
12.5°	13703.7
15°	13395.4
17.5°	13016.5
20°	12572.8
22.5°	12038.8
25°	11434.1
27.5°	10768.6
30°	10004.9
32.5°	9178.3
35°	8316.4
37.5°	7458.5
40°	6643.7
42.5°	5913.4
45°	5240.0
47.5°	4649.0
50°	4130.7
52.5°	3698.8
55°	3298.3
57.5°	2901.7
60°	2503.2
62.5°	2108.6
65°	1741.4
67.5°	1431.2
70°	1126.9
72.5°	854.0
75°	616.5
77.5°	422.1
80°	265.0
82.5°	151.2
85°	74.6
87.5°	31.4
90°	9.8
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°	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°	9.8
160°	9.8
162.5°	9.8
165°	11.8
167.5°	11.8
170°	11.8
172.5°	11.8
175°	13.7
177.5°	13.7
180°	13.7

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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	24.34	25.75	24.70	26.06	26.38	24.34	25.75	24.70	26.06	26.38
	3H	25.27	26.52	25.65	26.86	27.22	25.27	26.52	25.65	26.86	27.22
	4H	25.47	26.64	25.87	26.99	27.38	25.47	26.64	25.87	26.99	27.38
	6H	25.52	26.60	25.93	26.97	27.36	25.52	26.60	25.93	26.97	27.36
	8H	25.50	26.53	25.93	26.92	27.33	25.50	26.53	25.93	26.92	27.33
	12H	25.48	26.46	25.91	26.84	27.27	25.48	26.46	25.91	26.84	27.27
4H	2H	24.66	25.83	25.06	26.18	26.56	24.66	25.83	25.06	26.18	26.56
	3H	25.73	26.69	26.14	27.09	27.50	25.73	26.69	26.14	27.09	27.50
	4H	25.98	26.84	26.41	27.26	27.70	25.98	26.84	26.41	27.26	27.70
	6H	26.07	26.82	26.54	27.27	27.73	26.07	26.82	26.54	27.27	27.73
	8H	26.06	26.75	26.53	27.20	27.67	26.06	26.75	26.53	27.20	27.67
	12H	26.04	26.65	26.52	27.13	27.61	26.04	26.65	26.52	27.13	27.61
8H	4H	26.01	26.71	26.48	27.15	27.62	26.01	26.71	26.48	27.15	27.62
	6H	26.12	26.69	26.62	27.19	27.67	26.12	26.69	26.62	27.19	27.67
	8H	26.12	26.62	26.64	27.14	27.63	26.12	26.62	26.64	27.14	27.63
	12H	26.10	26.55	26.62	27.05	27.62	26.10	26.55	26.62	27.05	27.62
12H	4H	25.98	26.60	26.47	27.08	27.56	25.98	26.60	26.47	27.08	27.56
	6H	26.08	26.59	26.60	27.11	27.60	26.08	26.59	26.60	27.11	27.60
	8H	26.10	26.55	26.61	27.04	27.62	26.10	26.55	26.61	27.04	27.62

END OF REPORT