

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: P978932

Luminaire Tested: UHBS2-2436-W-L83065-MID-3500K

Issue Date: 3/27/2025

Test Information

Test Method: LM-79-2019
Report Number: P978932
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2405-087-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/27/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: UHBS2-2436-W-L83065-MID-3500K
Description: UHBS2 LED High Bay at 3500K and MID lumen setting
Light Source: -
Ballast/Driver: -

Summary

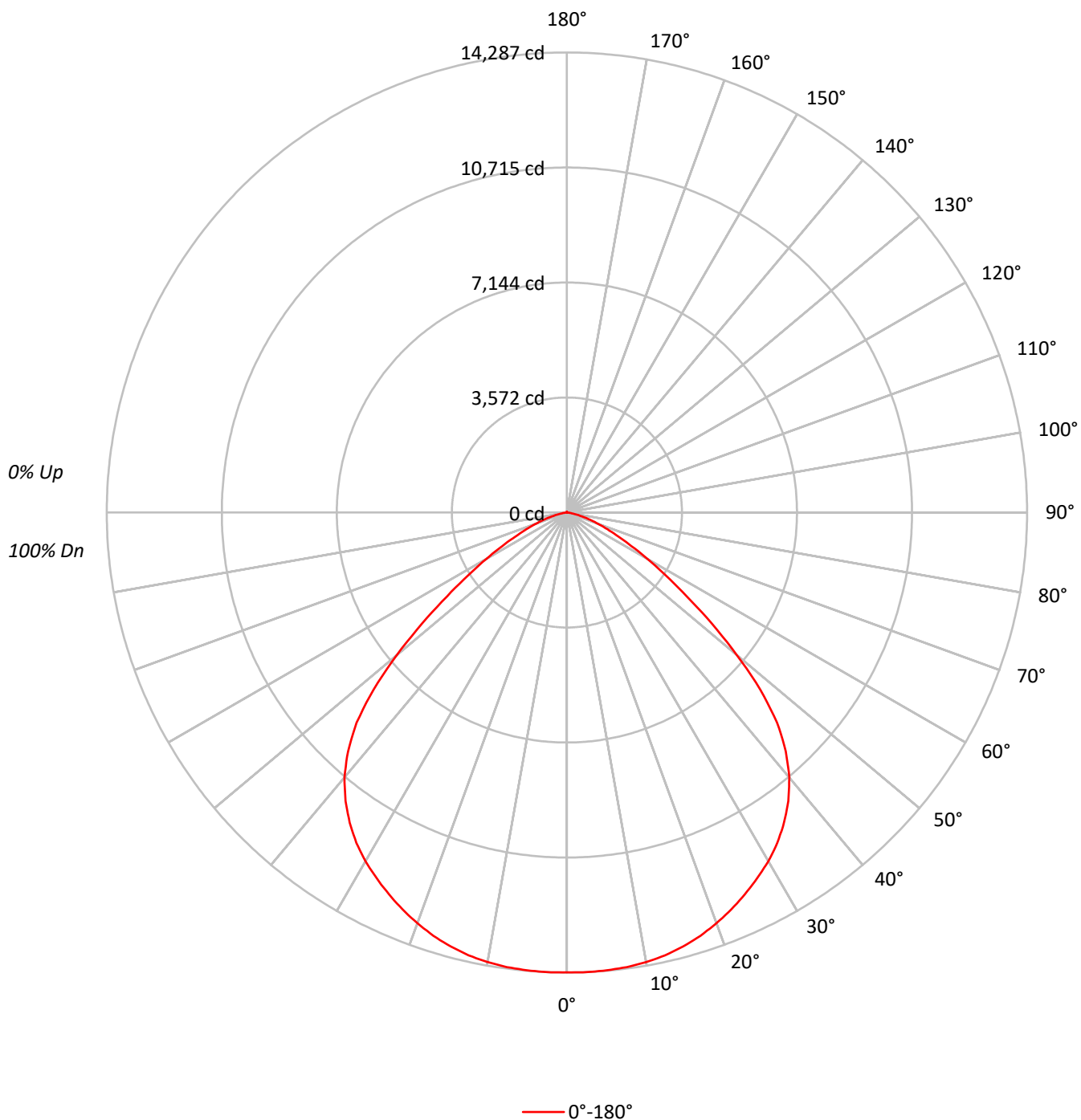
Lumens per Lamp: N/A
Luminaire Lumens: 32284.0 lumens
Efficiency: N/A
Efficacy: 167.8 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.3 / 1.36
Luminous Opening: Vertical Cylinder (Dia: 1.18' x H: 0.1')
CIE Type: Direct

Input Watts (W): 192.4
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 5.15
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		94
2	103	96	90	86	100	94	89	85	91	86	83		88	84	81		85
3	95	86	79	73	93	84	78	73	82	76	72		79	74	70		76
4	88	77	70	64	86	76	69	63	74	67	63		71	66	62		69
5	81	70	62	56	79	69	61	56	67	60	55		65	59	54		63
6	75	63	55	49	74	62	55	49	61	54	49		59	53	48		58
7	70	58	50	44	68	57	49	44	56	49	44		54	48	43		53
8	65	53	45	40	64	52	45	40	51	44	39		50	44	39		49
9	61	49	41	36	60	48	41	36	47	40	36		46	40	35		45
10	57	45	38	33	56	45	37	33	44	37	32		43	37	32		42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	141775
5°	140881
10°	140255
15°	139349
20°	137954
25°	136372
30°	134920
35°	132412
40°	127598
45°	116918
50°	94323
55°	67997
60°	48289
65°	33610
70°	22893
75°	14045
80°	6267
85°	2122

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 116918 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1359.5	4.2
10°-20°	3938.7	12.2
20°-30°	6033.4	18.7
30°-40°	7333.9	22.7
40°-50°	6979.5	21.6
50°-60°	4166.5	12.9
60°-70°	1808.5	5.6
70°-80°	575.0	1.8
80°-90°	64.2	0.2
90°-100°	2.3	0.0
100°-110°	1.8	0.0
110°-120°	1.9	0.0
120°-130°	3.0	0.0
130°-140°	3.4	0.0
140°-150°	4.1	0.0
150°-160°	4.0	0.0
160°-170°	3.1	0.0
170°-180°	1.2	0.0
0°-30°	11331.6	35.1
0°-40°	18665.6	57.8
0°-60°	29811.6	92.3
0°-90°	32259.4	99.9
90°-120°	6.0	0.0
90°-150°	16.4	0.1
90°-180°	25.0	0.1
0°-180°	32284.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	14282	
5°	14272	###
15°	13953	3939
25°	13080	6033
35°	11756	7334
45°	9231	6980
55°	4537	4167
65°	1763	1809
75°	514	575
85°	42	61
90°	5	4
95°	2	1
105°	2	2
115°	2	2
125°	3	3
135°	5	3
145°	7	4
155°	8	4
165°	12	3
175°	13	1
180°	15	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	14282.2
2.5°	14287.2
5°	14272.2
7.5°	14240.4
10°	14180.3
12.5°	14086.8
15°	13953.2
17.5°	13784.6
20°	13574.2
22.5°	13342.1
25°	13079.9
27.5°	12802.7
30°	12507.1
32.5°	12163.2
35°	11755.7
37.5°	11291.5
40°	10742.1
42.5°	10060.8
45°	9230.9
47.5°	8147.2
50°	6896.5
52.5°	5664.1
55°	4537.0
57.5°	3636.9
60°	2888.8
62.5°	2257.6
65°	1763.4
67.5°	1357.6
70°	1023.6
72.5°	746.4
75°	514.3
77.5°	325.6
80°	177.0
82.5°	85.2
85°	41.7
87.5°	18.4
90°	5.0
92.5°	1.7
95°	1.7
97.5°	1.7
100°	1.7
102.5°	1.7
105°	1.7
107.5°	1.7
110°	1.7



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	1.7
115°	1.7
117.5°	1.7
120°	3.3
122.5°	3.3
125°	3.3
127.5°	3.3
130°	3.3
132.5°	3.3
135°	5.0
137.5°	5.0
140°	5.0
142.5°	6.7
145°	6.7
147.5°	6.7
150°	6.7
152.5°	8.3
155°	8.3
157.5°	10.0
160°	10.0
162.5°	10.0
165°	11.7
167.5°	11.7
170°	11.7
172.5°	11.7
175°	13.4
177.5°	13.4
180°	15.0

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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	24.95	26.40	25.32	26.71	27.03	24.95	26.40	25.32	26.71	27.03
	3H	25.47	26.75	25.85	27.08	27.45	25.47	26.75	25.85	27.08	27.45
	4H	25.55	26.74	25.95	27.09	27.47	25.55	26.74	25.95	27.09	27.47
	6H	25.53	26.63	25.94	27.00	27.39	25.53	26.63	25.94	27.00	27.39
	8H	25.50	26.54	25.93	26.93	27.34	25.50	26.54	25.93	26.93	27.34
	12H	25.46	26.46	25.90	26.84	27.27	25.46	26.46	25.90	26.84	27.27
4H	2H	25.12	26.32	25.53	26.67	27.05	25.12	26.32	25.53	26.67	27.05
	3H	25.75	26.72	26.16	27.12	27.53	25.75	26.72	26.16	27.12	27.53
	4H	25.86	26.72	26.29	27.14	27.59	25.86	26.72	26.29	27.14	27.59
	6H	25.86	26.61	26.32	27.06	27.52	25.86	26.61	26.32	27.06	27.52
	8H	25.82	26.52	26.29	26.97	27.44	25.82	26.52	26.29	26.97	27.44
	12H	25.78	26.41	26.27	26.89	27.36	25.78	26.41	26.27	26.89	27.36
8H	4H	25.82	26.52	26.29	26.97	27.44	25.82	26.52	26.29	26.97	27.44
	6H	25.82	26.39	26.32	26.89	27.37	25.82	26.39	26.32	26.89	27.37
	8H	25.77	26.29	26.29	26.81	27.30	25.77	26.29	26.29	26.81	27.30
	12H	25.74	26.20	26.25	26.69	27.26	25.74	26.20	26.25	26.69	27.26
12H	4H	25.79	26.41	26.27	26.89	27.36	25.79	26.41	26.27	26.89	27.36
	6H	25.77	26.28	26.29	26.80	27.29	25.77	26.28	26.29	26.80	27.29
	8H	25.74	26.20	26.25	26.70	27.27	25.74	26.20	26.25	26.70	27.27