

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: P978935

Luminaire Tested: UHBS2-2436-W-L83065-MID-6500K

Issue Date: 3/27/2025

Test Information

Test Method: LM-79-2019
Report Number: P978935
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-6500K
Description: UHBS2 LED High Bay at 6500K and MID lumen setting
Light Source: -
Ballast/Driver: -

Summary

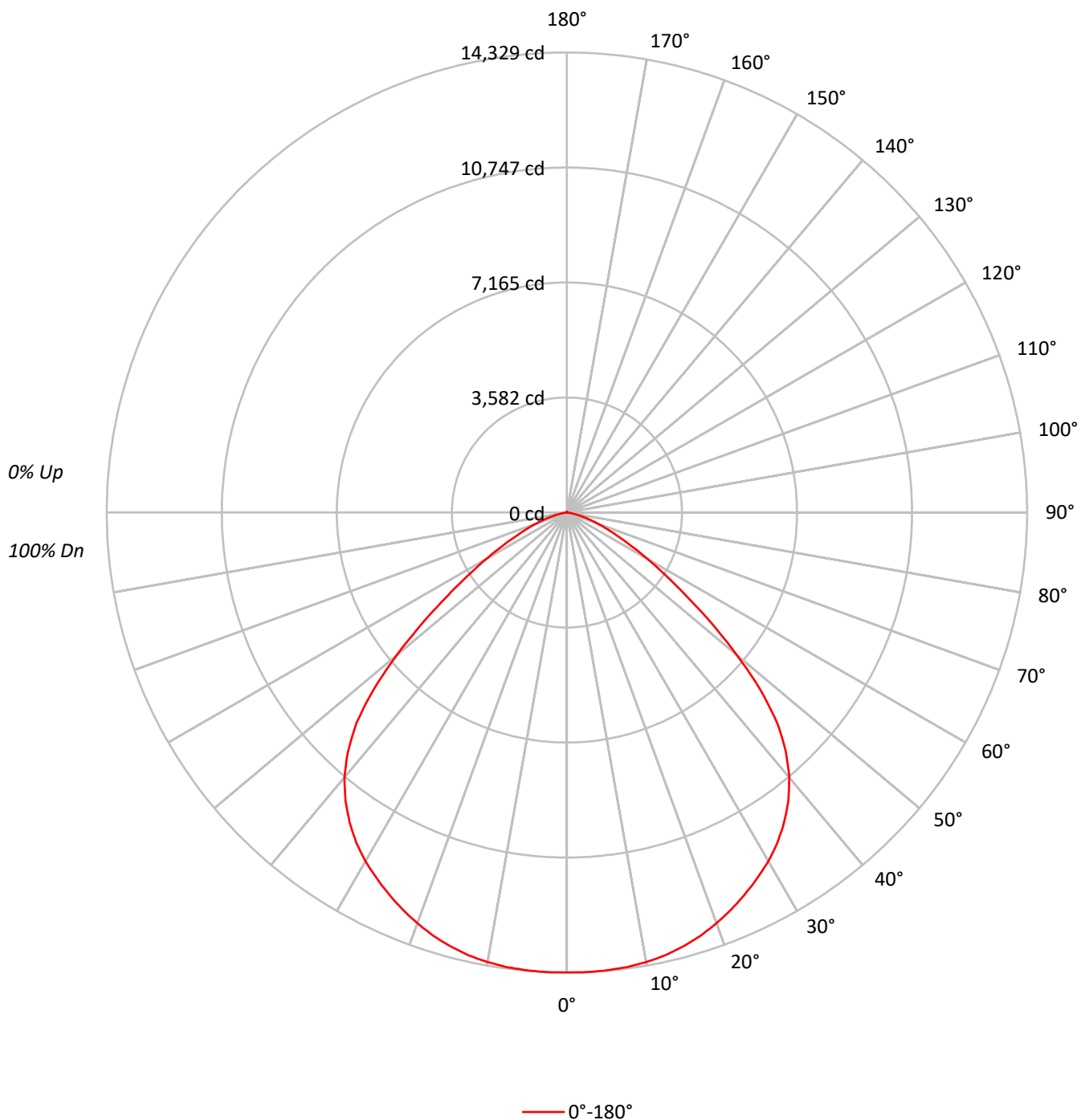
Lumens per Lamp: N/A
Luminaire Lumens: 32378.9 lumens
Efficiency: N/A
Efficacy: 166.0 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.3 / 1.36
Luminous Opening: Vertical Cylinder (Dia: 1.18' x H: 0.1')
CIE Type: Direct

Input Watts (W): 195
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°	142192
5°	141296
10°	140669
15°	139760
20°	138359
25°	136773
30°	135317
35°	132802
40°	127974
45°	117263
50°	94601
55°	68197
60°	48431
65°	33707
70°	22960
75°	14086
80°	6285
85°	2132

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 117263 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1363.5	4.2
10°-20°	3950.3	12.2
20°-30°	6051.2	18.7
30°-40°	7355.5	22.7
40°-50°	7000.1	21.6
50°-60°	4178.8	12.9
60°-70°	1813.8	5.6
70°-80°	576.7	1.8
80°-90°	64.4	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°	11365.0	35.1
0°-40°	18720.5	57.8
0°-60°	29899.3	92.3
0°-90°	32354.3	99.9
90°-120°	6.0	0.0
90°-150°	16.4	0.1
90°-180°	25.0	0.1
0°-180°	32378.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	14324	
5°	14314	###
15°	13994	3950
25°	13118	6051
35°	11790	7356
45°	9258	7000
55°	4550	4179
65°	1768	1814
75°	516	577
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°	14324.2
2.5°	14329.2
5°	14314.2
7.5°	14282.3
10°	14222.1
12.5°	14128.3
15°	13994.3
17.5°	13825.1
20°	13614.1
22.5°	13381.3
25°	13118.4
27.5°	12840.4
30°	12543.9
32.5°	12198.9
35°	11790.3
37.5°	11324.7
40°	10773.7
42.5°	10090.4
45°	9258.1
47.5°	8171.1
50°	6916.8
52.5°	5680.8
55°	4550.3
57.5°	3647.6
60°	2897.3
62.5°	2264.3
65°	1768.5
67.5°	1361.6
70°	1026.6
72.5°	748.6
75°	515.8
77.5°	326.6
80°	177.5
82.5°	85.4
85°	41.9
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°	8.4
155°	8.4
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°	15.1

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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	24.96	26.41	25.33	26.72	27.04	24.96	26.41	25.33	26.72	27.04
	3H	25.48	26.76	25.86	27.09	27.46	25.48	26.76	25.86	27.09	27.46
	4H	25.56	26.75	25.96	27.10	27.48	25.56	26.75	25.96	27.10	27.48
	6H	25.54	26.64	25.95	27.01	27.40	25.54	26.64	25.95	27.01	27.40
	8H	25.51	26.55	25.94	26.94	27.35	25.51	26.55	25.94	26.94	27.35
	12H	25.47	26.47	25.91	26.85	27.28	25.47	26.47	25.91	26.85	27.28
4H	2H	25.13	26.33	25.54	26.68	27.06	25.13	26.33	25.54	26.68	27.06
	3H	25.76	26.73	26.17	27.14	27.54	25.76	26.73	26.17	27.14	27.54
	4H	25.87	26.73	26.30	27.15	27.60	25.87	26.73	26.30	27.15	27.60
	6H	25.87	26.62	26.33	27.07	27.53	25.87	26.62	26.33	27.07	27.53
	8H	25.83	26.53	26.30	26.98	27.45	25.83	26.53	26.30	26.98	27.45
	12H	25.79	26.42	26.28	26.90	27.37	25.79	26.42	26.28	26.90	27.37
8H	4H	25.83	26.53	26.30	26.98	27.45	25.83	26.53	26.30	26.98	27.45
	6H	25.83	26.40	26.33	26.90	27.38	25.83	26.40	26.33	26.90	27.38
	8H	25.78	26.30	26.30	26.82	27.31	25.78	26.30	26.30	26.82	27.31
	12H	25.75	26.21	26.26	26.71	27.27	25.75	26.21	26.26	26.71	27.27
12H	4H	25.80	26.42	26.28	26.90	27.38	25.80	26.42	26.28	26.90	27.38
	6H	25.78	26.29	26.30	26.81	27.30	25.78	26.29	26.30	26.81	27.30
	8H	25.75	26.21	26.26	26.71	27.28	25.75	26.21	26.26	26.71	27.28