

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: P978901

Luminaire Tested: UHBS2-2436-M-L83065-MID-3000K

Issue Date: 3/27/2025

Test Information

Test Method: LM-79-2019
Report Number: P978901
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-MID-3000K
Description: UHBS2 LED High Bay at 3000K and MID lumen setting
Light Source: -
Ballast/Driver: -

Summary

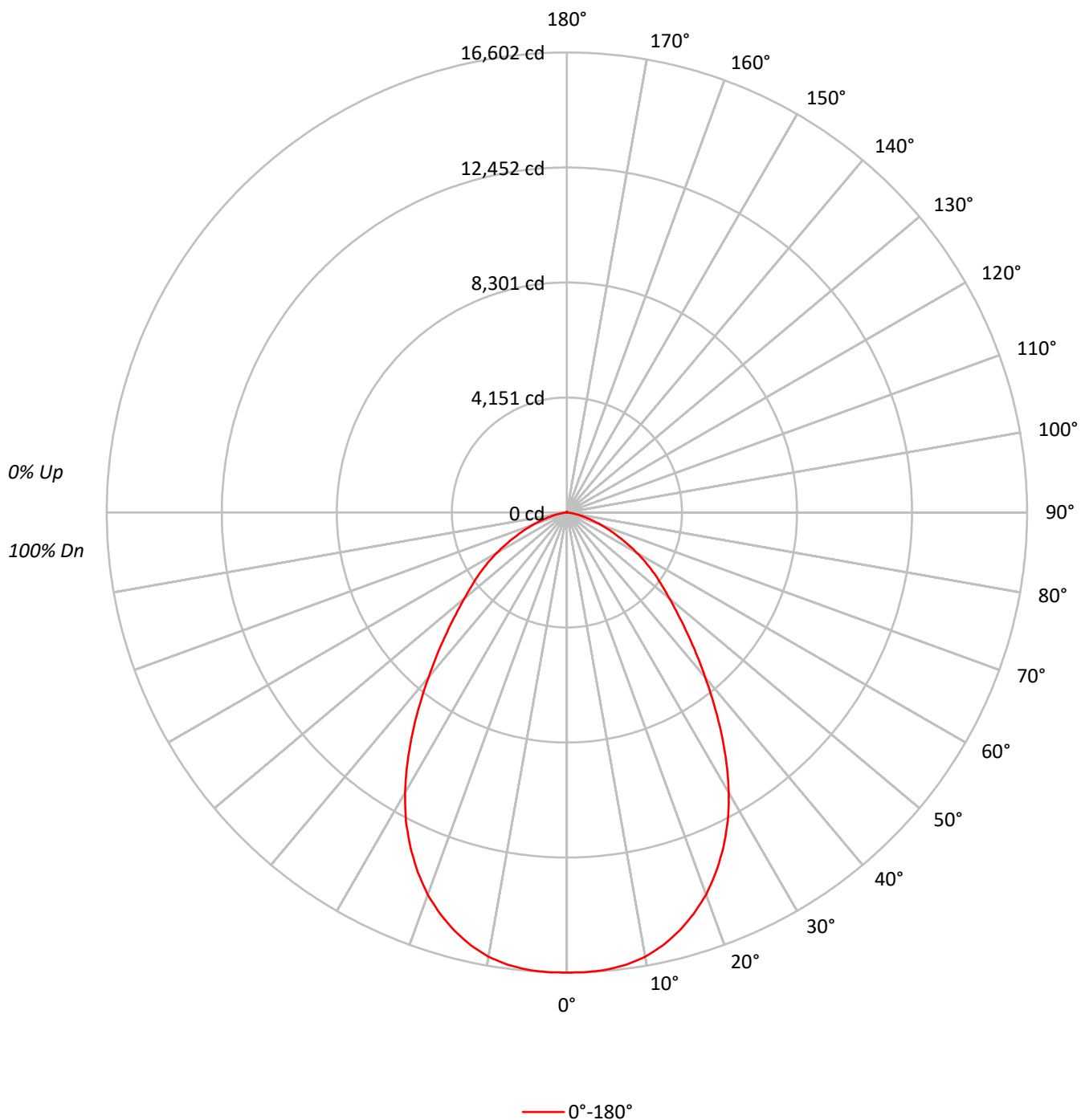
Lumens per Lamp: N/A
Luminaire Lumens: 29322.1 lumens
Efficiency: N/A
Efficacy: 150.7 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.11
Luminous Opening: Vertical Cylinder (Dia: 1.18' x H: 0.1')
CIE Type: Direct

Input Watts (W): 194.6
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		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°	164799
5°	163468
10°	161031
15°	156163
20°	149157
25°	139160
30°	125986
35°	109347
40°	92121
45°	77475
50°	65949
55°	57704
60°	48844
65°	38744
70°	29421
75°	19652
80°	10955
85°	4432

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 77475 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1571.9	5.4
10°-20°	4392.3	15.0
20°-30°	6109.8	20.8
30°-40°	6052.2	20.6
40°-50°	4757.9	16.2
50°-60°	3444.0	11.7
60°-70°	2045.5	7.0
70°-80°	795.2	2.7
80°-90°	125.3	0.4
90°-100°	3.8	0.0
100°-110°	2.4	0.0
110°-120°	2.3	0.0
120°-130°	2.3	0.0
130°-140°	3.6	0.0
140°-150°	4.1	0.0
150°-160°	4.5	0.0
160°-170°	3.6	0.0
170°-180°	1.4	0.0
0°-30°	12074.0	41.2
0°-40°	18126.2	61.8
0°-60°	26328.1	89.8
0°-90°	29294.1	99.9
90°-120°	8.5	0.0
90°-150°	18.5	0.1
90°-180°	28.0	0.1
0°-180°	29322.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	16602	
5°	16560	###
15°	15637	4392
25°	13347	6110
35°	9708	6052
45°	6117	4758
55°	3850	3444
65°	2033	2046
75°	720	795
85°	87	119
90°	12	8
95°	2	2
105°	2	2
115°	2	2
125°	2	2
135°	5	4
145°	7	4
155°	9	4
165°	14	4
175°	16	1
180°	16	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	16601.6
2.5°	16601.6
5°	16560.4
7.5°	16457.3
10°	16280.8
12.5°	15996.6
15°	15636.8
17.5°	15194.5
20°	14676.6
22.5°	14053.2
25°	13347.3
27.5°	12570.4
30°	11678.9
32.5°	10714.1
35°	9708.0
37.5°	8706.5
40°	7755.4
42.5°	6902.8
45°	6116.8
47.5°	5426.9
50°	4821.9
52.5°	4317.7
55°	3850.2
57.5°	3387.2
60°	2922.0
62.5°	2461.4
65°	2032.8
67.5°	1670.7
70°	1315.5
72.5°	996.9
75°	719.6
77.5°	492.7
80°	309.4
82.5°	176.5
85°	87.1
87.5°	36.7
90°	11.5
92.5°	2.3
95°	2.3
97.5°	2.3
100°	2.3
102.5°	2.3
105°	2.3
107.5°	2.3
110°	2.3



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	2.3
115°	2.3
117.5°	2.3
120°	2.3
122.5°	2.3
125°	2.3
127.5°	2.3
130°	4.6
132.5°	4.6
135°	4.6
137.5°	4.6
140°	4.6
142.5°	6.9
145°	6.9
147.5°	6.9
150°	6.9
152.5°	9.2
155°	9.2
157.5°	11.5
160°	11.5
162.5°	11.5
165°	13.8
167.5°	13.8
170°	13.8
172.5°	13.8
175°	16.0
177.5°	16.0
180°	16.0

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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	24.87	26.28	25.24	26.60	26.92	24.87	26.28	25.24	26.60	26.92
	3H	25.81	27.06	26.19	27.39	27.76	25.81	27.06	26.19	27.39	27.76
	4H	26.00	27.18	26.41	27.53	27.91	26.00	27.18	26.41	27.53	27.91
	6H	26.06	27.14	26.47	27.51	27.90	26.06	27.14	26.47	27.51	27.90
	8H	26.04	27.07	26.47	27.46	27.86	26.04	27.07	26.47	27.46	27.86
	12H	26.01	26.99	26.45	27.38	27.81	26.01	26.99	26.45	27.38	27.81
4H	2H	25.19	26.37	25.60	26.72	27.10	25.19	26.37	25.60	26.72	27.10
	3H	26.26	27.23	26.68	27.63	28.04	26.26	27.23	26.68	27.63	28.04
	4H	26.52	27.38	26.95	27.80	28.24	26.52	27.38	26.95	27.80	28.24
	6H	26.61	27.36	27.07	27.80	28.27	26.61	27.36	27.07	27.80	28.27
	8H	26.60	27.29	27.07	27.74	28.21	26.60	27.29	27.07	27.74	28.21
	12H	26.57	27.19	27.06	27.67	28.15	26.57	27.19	27.06	27.67	28.15
8H	4H	26.55	27.24	27.02	27.69	28.16	26.55	27.24	27.02	27.69	28.16
	6H	26.66	27.23	27.16	27.72	28.21	26.66	27.23	27.16	27.72	28.21
	8H	26.65	27.16	27.17	27.68	28.17	26.65	27.16	27.17	27.68	28.17
	12H	26.64	27.09	27.15	27.58	28.15	26.64	27.09	27.15	27.58	28.15
12H	4H	26.52	27.13	27.00	27.62	28.09	26.52	27.13	27.00	27.62	28.09
	6H	26.62	27.13	27.14	27.65	28.14	26.62	27.13	27.14	27.65	28.14
	8H	26.64	27.09	27.15	27.58	28.15	26.64	27.09	27.15	27.58	28.15