

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: P978896

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

Issue Date: 3/27/2025

Test Information

Test Method: LM-79-2019
Report Number: P978896
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-3000K
Description: UHBS2 LED High Bay at 3000K and LOW lumen setting
Light Source: -
Ballast/Driver: -

Summary

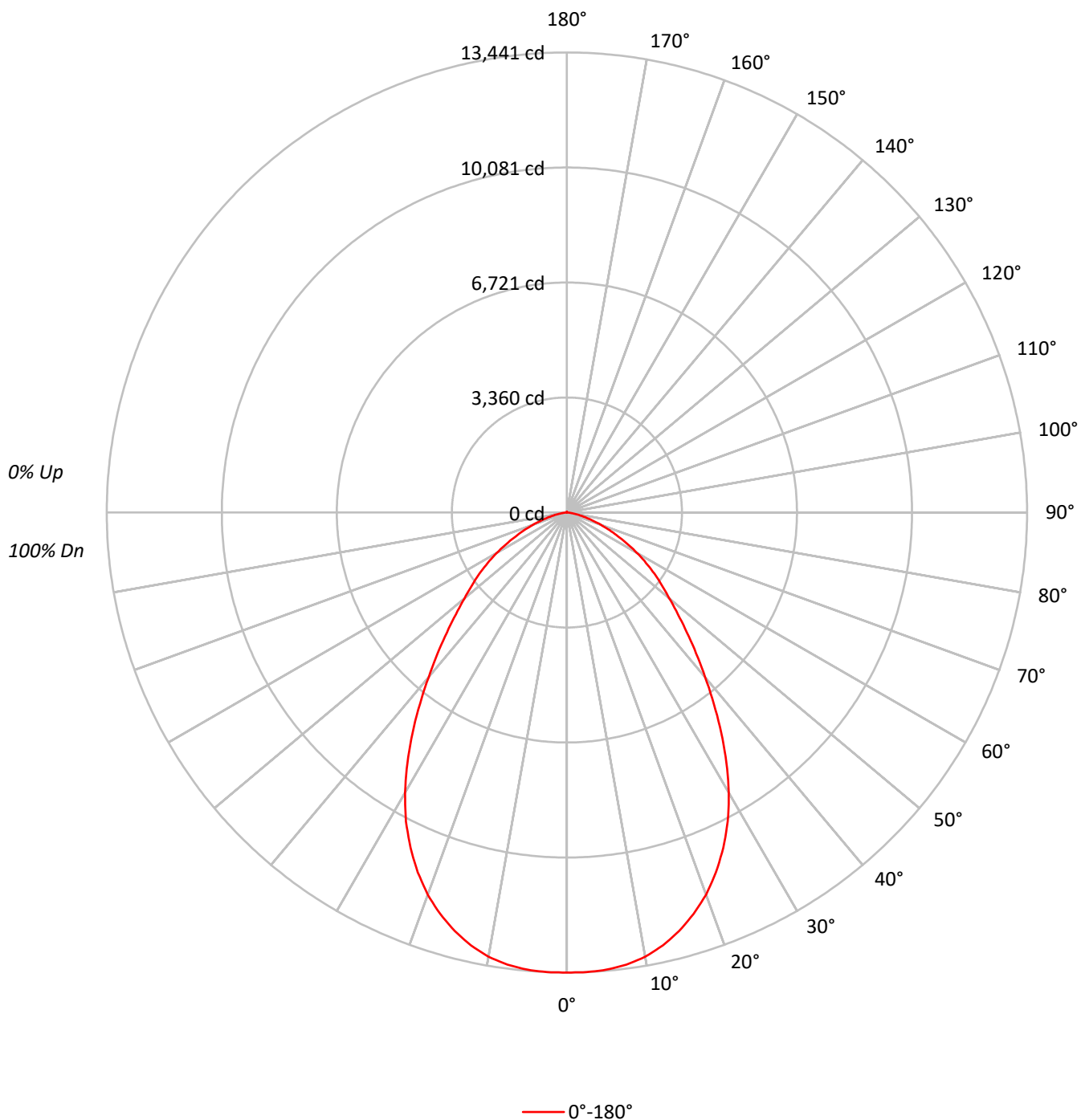
Lumens per Lamp: N/A
Luminaire Lumens: 23740.2 lumens
Efficiency: N/A
Efficacy: 152.2 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.11
Luminous Opening: Vertical Cylinder (Dia: 1.18' x H: 0.1')
CIE Type: Direct

Input Watts (W): 156
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°	133427
5°	132349
10°	130375
15°	126434
20°	120762
25°	112668
30°	102002
35°	88531
40°	74584
45°	62726
50°	53395
55°	46718
60°	39547
65°	31368
70°	23821
75°	15911
80°	8869
85°	3587

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 62726 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1272.6	5.4
10°-20°	3556.2	15.0
20°-30°	4946.6	20.8
30°-40°	4900.1	20.6
40°-50°	3852.2	16.2
50°-60°	2788.4	11.7
60°-70°	1656.1	7.0
70°-80°	643.8	2.7
80°-90°	101.4	0.4
90°-100°	3.1	0.0
100°-110°	2.0	0.0
110°-120°	1.9	0.0
120°-130°	1.9	0.0
130°-140°	2.9	0.0
140°-150°	3.4	0.0
150°-160°	3.6	0.0
160°-170°	2.9	0.0
170°-180°	1.1	0.0
0°-30°	9775.4	41.2
0°-40°	14675.5	61.8
0°-60°	21316.0	89.8
0°-90°	23717.4	99.9
90°-120°	7.0	0.0
90°-150°	15.1	0.1
90°-180°	23.0	0.1
0°-180°	23740.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	13441	
5°	13408	###
15°	12660	3556
25°	10806	4947
35°	7860	4900
45°	4952	3852
55°	3117	2788
65°	1646	1656
75°	583	644
85°	70	96
90°	9	7
95°	2	2
105°	2	2
115°	2	2
125°	2	2
135°	4	3
145°	6	3
155°	7	4
165°	11	3
175°	13	1
180°	13	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	13441.2
2.5°	13441.2
5°	13407.8
7.5°	13324.3
10°	13181.4
12.5°	12951.4
15°	12660.0
17.5°	12301.9
20°	11882.6
22.5°	11377.9
25°	10806.4
27.5°	10177.4
30°	9455.6
32.5°	8674.4
35°	7859.9
37.5°	7049.0
40°	6279.0
42.5°	5588.8
45°	4952.3
47.5°	4393.8
50°	3904.0
52.5°	3495.8
55°	3117.2
57.5°	2742.4
60°	2365.8
62.5°	1992.8
65°	1645.8
67.5°	1352.7
70°	1065.1
72.5°	807.1
75°	582.6
77.5°	398.9
80°	250.5
82.5°	142.9
85°	70.5
87.5°	29.7
90°	9.3
92.5°	1.9
95°	1.9
97.5°	1.9
100°	1.9
102.5°	1.9
105°	1.9
107.5°	1.9
110°	1.9



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	1.9
115°	1.9
117.5°	1.9
120°	1.9
122.5°	1.9
125°	1.9
127.5°	1.9
130°	3.7
132.5°	3.7
135°	3.7
137.5°	3.7
140°	3.7
142.5°	5.6
145°	5.6
147.5°	5.6
150°	5.6
152.5°	7.4
155°	7.4
157.5°	9.3
160°	9.3
162.5°	9.3
165°	11.1
167.5°	11.1
170°	11.1
172.5°	11.1
175°	13.0
177.5°	13.0
180°	13.0

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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	24.14	25.55	24.51	25.87	26.18	24.14	25.55	24.51	25.87	26.18
	3H	25.07	26.33	25.45	26.66	27.03	25.07	26.33	25.45	26.66	27.03
	4H	25.27	26.44	25.67	26.80	27.18	25.27	26.44	25.67	26.80	27.18
	6H	25.32	26.40	25.74	26.77	27.17	25.32	26.40	25.74	26.77	27.17
	8H	25.31	26.33	25.74	26.72	27.13	25.31	26.33	25.74	26.72	27.13
	12H	25.28	26.26	25.71	26.64	27.08	25.28	26.26	25.71	26.64	27.08
4H	2H	24.46	25.63	24.86	25.98	26.37	24.46	25.63	24.86	25.98	26.37
	3H	25.53	26.49	25.94	26.90	27.30	25.53	26.49	25.94	26.90	27.30
	4H	25.78	26.64	26.22	27.06	27.51	25.78	26.64	26.22	27.06	27.51
	6H	25.88	26.62	26.34	27.07	27.54	25.88	26.62	26.34	27.07	27.54
	8H	25.86	26.56	26.33	27.01	27.48	25.86	26.56	26.33	27.01	27.48
	12H	25.84	26.46	26.33	26.94	27.41	25.84	26.46	26.33	26.94	27.41
8H	4H	25.81	26.51	26.28	26.96	27.43	25.81	26.51	26.28	26.96	27.43
	6H	25.93	26.49	26.43	26.99	27.47	25.93	26.49	26.43	26.99	27.47
	8H	25.92	26.43	26.44	26.94	27.44	25.92	26.43	26.44	26.94	27.44
	12H	25.91	26.35	26.42	26.85	27.42	25.91	26.35	26.42	26.85	27.42
12H	4H	25.78	26.40	26.27	26.88	27.36	25.78	26.40	26.27	26.88	27.36
	6H	25.89	26.40	26.41	26.91	27.40	25.89	26.40	26.41	26.91	27.40
	8H	25.90	26.35	26.42	26.85	27.42	25.90	26.35	26.42	26.85	27.42

END OF REPORT