

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: P926830

Luminaire Tested: UHBS2-2436-N-L83065-HIGH-3000K

Issue Date: 12/6/2024

Test Information

Test Method: LM-79-2019
Report Number: P926830
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2405-087-3)
Test Lab: INNOVATION CENTER
Issue Date: 12/6/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: UHBS2-2436-N-L83065-HIGH-3000K
Description: UHBS2 LED High Bay at 3000K and HIGH lumen setting
Light Source: -
Ballast/Driver: -

Summary

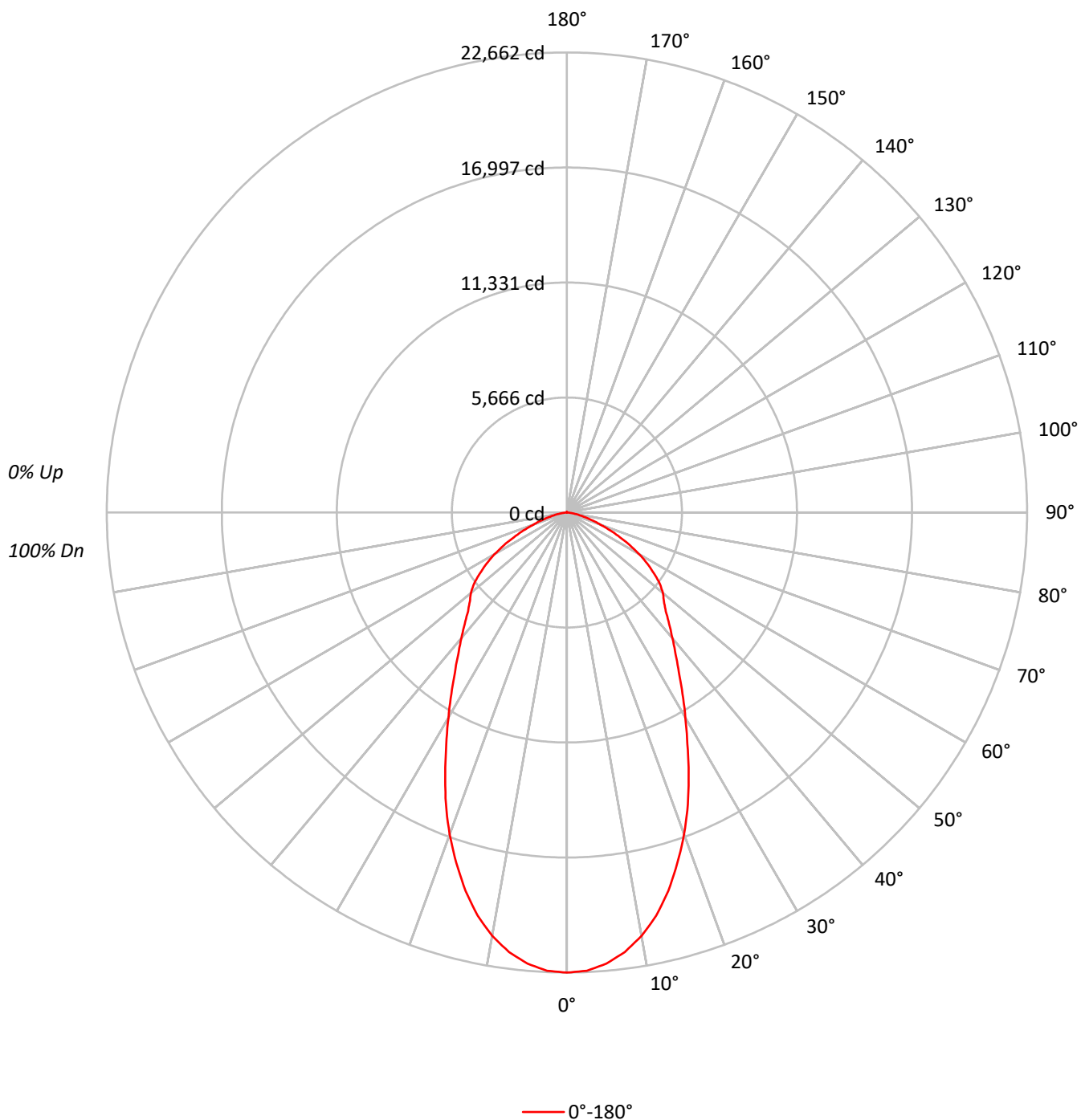
Lumens per Lamp: N/A
Luminaire Lumens: 34274.1 lumens
Efficiency: N/A
Efficacy: 143.2 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.96
Luminous Opening: Vertical Cylinder (Dia: 1.18' x H: 0.1')
CIE Type: Direct

Input Watts (W): 239.4
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.999
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	103	100	108	105	101	98	100	98	95		96	94	92		93
2	102	95	89	85	100	93	88	84	90	86	82		87	83	80		84
3	94	85	78	73	92	84	77	72	81	75	71		78	74	70		76
4	88	77	69	63	85	76	69	63	73	67	62		71	66	61		69
5	81	70	62	56	79	69	61	56	67	60	55		65	59	55		63
6	76	64	56	50	74	63	55	50	61	55	50		60	54	49		58
7	71	59	51	45	69	58	50	45	56	50	45		55	49	45		54
8	67	54	47	41	65	54	46	41	52	46	41		51	45	41		50
9	63	50	43	38	61	50	43	38	49	42	38		48	42	37		47
10	59	47	40	35	58	46	39	35	46	39	35		45	39	35		44

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	224960
5°	220172
10°	209441
15°	192672
20°	171532
25°	147770
30°	125833
35°	108215
40°	95967
45°	87215
50°	84407
55°	78469
60°	68868
65°	54987
70°	40002
75°	26616
80°	15784
85°	7327

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 87215 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2093.3	6.1
10°-20°	5376.4	15.7
20°-30°	6508.9	19.0
30°-40°	6058.6	17.7
40°-50°	5388.2	15.7
50°-60°	4657.3	13.6
60°-70°	2878.4	8.4
70°-80°	1085.5	3.2
80°-90°	193.1	0.6
90°-100°	4.9	0.0
100°-110°	3.0	0.0
110°-120°	2.8	0.0
120°-130°	3.4	0.0
130°-140°	4.3	0.0
140°-150°	4.5	0.0
150°-160°	5.4	0.0
160°-170°	4.4	0.0
170°-180°	1.8	0.0
0°-30°	13978.6	40.8
0°-40°	20037.2	58.5
0°-60°	30082.7	87.8
0°-90°	34239.7	99.9
90°-120°	10.7	0.0
90°-150°	22.8	0.1
90°-180°	34.0	0.1
0°-180°	34274.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	22662	
5°	22305	###
15°	19292	5376
25°	14173	6509
35°	9608	6059
45°	6886	5388
55°	5236	4657
65°	2885	2878
75°	975	1085
85°	144	183
90°	17	13
95°	3	2
105°	3	3
115°	3	3
125°	3	3
135°	6	4
145°	8	5
155°	11	5
165°	17	4
175°	19	2
180°	22	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	22662.1
2.5°	22595.6
5°	22304.9
7.5°	21834.2
10°	21175.2
12.5°	20333.6
15°	19292.5
17.5°	18102.0
20°	16878.2
22.5°	15565.8
25°	14173.1
27.5°	12858.0
30°	11664.7
32.5°	10587.6
35°	9607.5
37.5°	8790.7
40°	8079.2
42.5°	7447.9
45°	6885.8
47.5°	6476.1
50°	6171.5
52.5°	5770.0
55°	5235.7
57.5°	4693.0
60°	4119.9
62.5°	3505.2
65°	2885.0
67.5°	2314.7
70°	1788.6
72.5°	1351.1
75°	974.6
77.5°	681.1
80°	445.8
82.5°	274.1
85°	144.0
87.5°	60.9
90°	16.6
92.5°	2.8
95°	2.8
97.5°	2.8
100°	2.8
102.5°	2.8
105°	2.8
107.5°	2.8
110°	2.8



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	2.8
115°	2.8
117.5°	2.8
120°	2.8
122.5°	2.8
125°	2.8
127.5°	5.5
130°	5.5
132.5°	5.5
135°	5.5
137.5°	5.5
140°	5.5
142.5°	5.5
145°	8.3
147.5°	8.3
150°	8.3
152.5°	11.1
155°	11.1
157.5°	13.8
160°	13.8
162.5°	13.8
165°	16.6
167.5°	16.6
170°	16.6
172.5°	19.4
175°	19.4
177.5°	19.4
180°	22.1

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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	26.55	28.00	26.91	28.32	28.64	26.55	28.00	26.91	28.32	28.64
	3H	27.47	28.77	27.85	29.10	29.46	27.47	28.77	27.85	29.10	29.46
	4H	27.66	28.87	28.06	29.23	29.61	27.66	28.87	28.06	29.23	29.61
	6H	27.71	28.84	28.13	29.21	29.60	27.71	28.84	28.13	29.21	29.60
	8H	27.71	28.77	28.13	29.16	29.57	27.71	28.77	28.13	29.16	29.57
	12H	27.68	28.70	28.12	29.09	29.52	27.68	28.70	28.12	29.09	29.52
4H	2H	26.89	28.11	27.30	28.46	28.85	26.89	28.11	27.30	28.46	28.85
	3H	27.94	28.95	28.35	29.35	29.75	27.94	28.95	28.35	29.35	29.75
	4H	28.18	29.08	28.62	29.50	29.94	28.18	29.08	28.62	29.50	29.94
	6H	28.29	29.07	28.75	29.51	29.98	28.29	29.07	28.75	29.51	29.98
	8H	28.28	29.01	28.75	29.46	29.93	28.28	29.01	28.75	29.46	29.93
	12H	28.27	28.91	28.75	29.39	29.87	28.27	28.91	28.75	29.39	29.87
8H	4H	28.22	28.94	28.68	29.39	29.86	28.22	28.94	28.68	29.39	29.86
	6H	28.34	28.94	28.84	29.43	29.91	28.34	28.94	28.84	29.43	29.91
	8H	28.35	28.88	28.87	29.40	29.89	28.35	28.88	28.87	29.40	29.89
	12H	28.35	28.82	28.86	29.31	29.88	28.35	28.82	28.86	29.31	29.88
12H	4H	28.19	28.84	28.68	29.32	29.80	28.19	28.84	28.68	29.32	29.80
	6H	28.31	28.84	28.83	29.36	29.85	28.31	28.84	28.83	29.36	29.85
	8H	28.34	28.81	28.86	29.31	29.88	28.34	28.81	28.86	29.31	29.88

END OF REPORT