

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: P926843

Luminaire Tested: UHBS2-2436-N-L83065-MID-5000K

Issue Date: 12/6/2024

Test Information

Test Method: LM-79-2019
Report Number: P926843
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-MID-5000K
Description: UHBS2 LED High Bay at 5000K and MID lumen setting
Light Source: -
Ballast/Driver: -

Summary

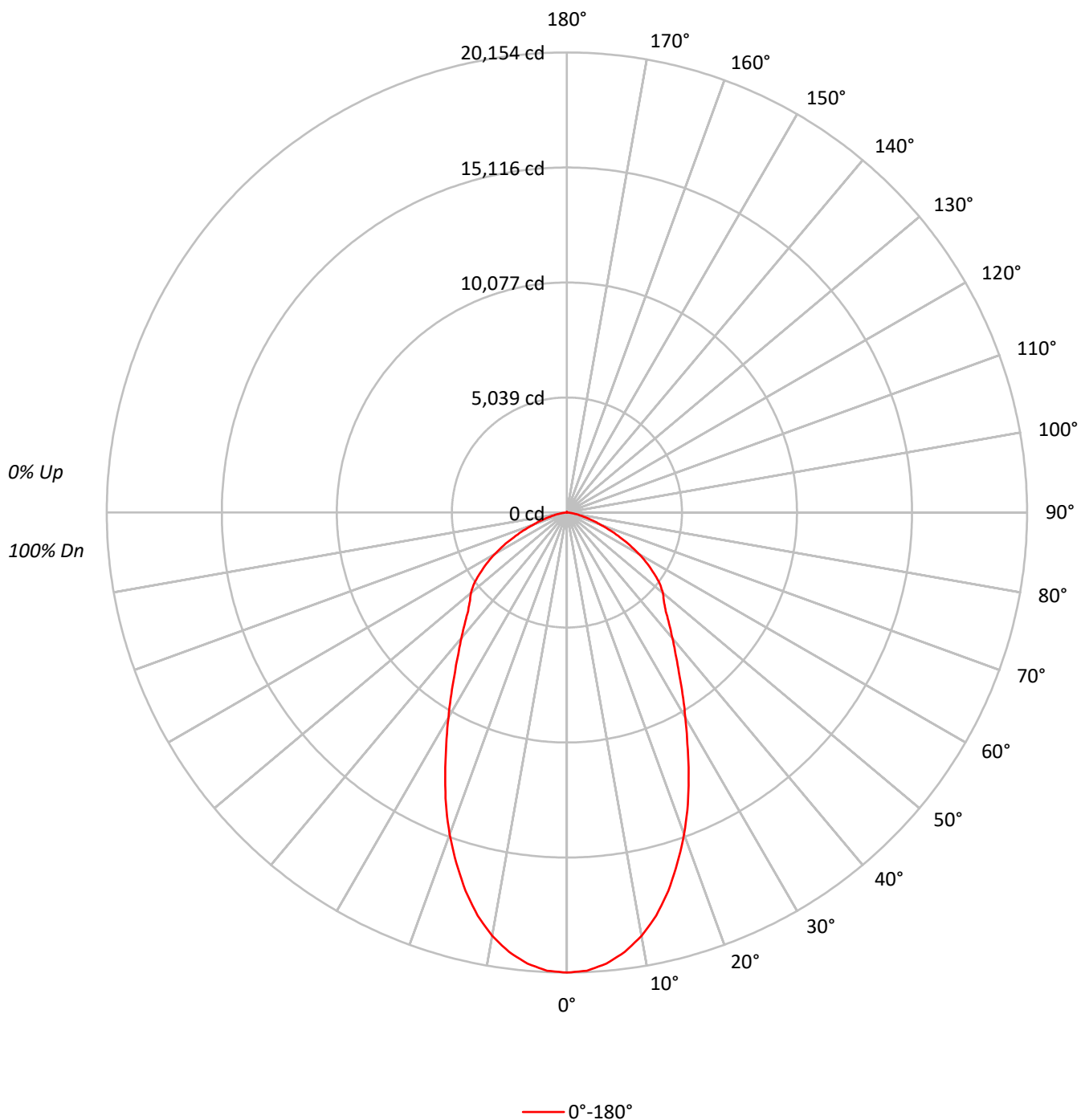
Lumens per Lamp: N/A
Luminaire Lumens: 30480.1 lumens
Efficiency: N/A
Efficacy: 159.6 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.96
Luminous Opening: Vertical Cylinder (Dia: 1.18' x H: 0.1')
CIE Type: Direct

Input Watts (W): 191
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

TEST NUMBER: P926843

CATALOG NUMBER: UHBS2-2436-N-L83065-MID-5000K

Luminous Intensity Polar Plot



TEST NUMBER: P926843

CATALOG NUMBER: UHBS2-2436-N-L83065-MID-5000K

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°	200058
5°	195800
10°	186256
15°	171344
20°	152544
25°	131412
30°	111903
35°	96236
40°	85343
45°	77561
50°	75063
55°	69782
60°	61244
65°	48901
70°	35574
75°	23669
80°	14035
85°	6513

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 77561 cd/sqm

TEST NUMBER: P926843

CATALOG NUMBER: UHBS2-2436-N-L83065-MID-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1861.6	6.1
10°-20°	4781.2	15.7
20°-30°	5788.4	19.0
30°-40°	5388.0	17.7
40°-50°	4791.7	15.7
50°-60°	4141.7	13.6
60°-70°	2559.8	8.4
70°-80°	965.3	3.2
80°-90°	171.8	0.6
90°-100°	4.4	0.0
100°-110°	2.6	0.0
110°-120°	2.5	0.0
120°-130°	3.0	0.0
130°-140°	3.8	0.0
140°-150°	4.0	0.0
150°-160°	4.8	0.0
160°-170°	3.9	0.0
170°-180°	1.6	0.0
0°-30°	12431.2	40.8
0°-40°	17819.1	58.5
0°-60°	26752.6	87.8
0°-90°	30449.5	99.9
90°-120°	9.5	0.0
90°-150°	20.4	0.1
90°-180°	31.0	0.1
0°-180°	30480.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	20154	
5°	19836	###
15°	17157	4781
25°	12604	5788
35°	8544	5388
45°	6124	4792
55°	4656	4142
65°	2566	2560
75°	867	965
85°	128	162
90°	15	12
95°	2	2
105°	2	3
115°	2	2
125°	2	3
135°	5	4
145°	7	4
155°	10	5
165°	15	4
175°	17	2
180°	20	

TEST NUMBER: P926843

CATALOG NUMBER: UHBS2-2436-N-L83065-MID-5000K

CANDELA DISTRIBUTION (FULL):

0°	
0°	20153.5
2.5°	20094.4
5°	19835.8
7.5°	19417.2
10°	18831.2
12.5°	18082.7
15°	17156.9
17.5°	16098.1
20°	15009.8
22.5°	13842.7
25°	12604.2
27.5°	11434.7
30°	10373.4
32.5°	9415.6
35°	8544.0
37.5°	7817.6
40°	7184.8
42.5°	6623.4
45°	6123.6
47.5°	5759.2
50°	5488.3
52.5°	5131.3
55°	4656.1
57.5°	4173.5
60°	3663.8
62.5°	3117.2
65°	2565.7
67.5°	2058.4
70°	1590.6
72.5°	1201.6
75°	866.7
77.5°	605.7
80°	396.4
82.5°	243.8
85°	128.0
87.5°	54.2
90°	14.8
92.5°	2.5
95°	2.5
97.5°	2.5
100°	2.5
102.5°	2.5
105°	2.5
107.5°	2.5
110°	2.5



TEST NUMBER: P926843

CATALOG NUMBER: UHBS2-2436-N-L83065-MID-5000K

CANDELA DISTRIBUTION (continued):

	0°
112.5°	2.5
115°	2.5
117.5°	2.5
120°	2.5
122.5°	2.5
125°	2.5
127.5°	4.9
130°	4.9
132.5°	4.9
135°	4.9
137.5°	4.9
140°	4.9
142.5°	4.9
145°	7.4
147.5°	7.4
150°	7.4
152.5°	9.8
155°	9.8
157.5°	12.3
160°	12.3
162.5°	12.3
165°	14.8
167.5°	14.8
170°	14.8
172.5°	17.2
175°	17.2
177.5°	17.2
180°	19.7

TEST NUMBER: P926843

CATALOG NUMBER: UHBS2-2436-N-L83065-MID-5000K

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	26.14	27.60	26.50	27.91	28.23	26.14	27.60	26.50	27.91	28.23
	3H	27.06	28.36	27.44	28.69	29.06	27.06	28.36	27.44	28.69	29.06
	4H	27.25	28.47	27.65	28.82	29.20	27.25	28.47	27.65	28.82	29.20
	6H	27.31	28.43	27.72	28.80	29.19	27.31	28.43	27.72	28.80	29.19
	8H	27.30	28.36	27.73	28.76	29.16	27.30	28.36	27.73	28.76	29.16
	12H	27.28	28.30	27.71	28.68	29.11	27.28	28.30	27.71	28.68	29.11
4H	2H	26.49	27.70	26.89	28.06	28.44	26.49	27.70	26.89	28.06	28.44
	3H	27.53	28.54	27.95	28.94	29.35	27.53	28.54	27.95	28.94	29.35
	4H	27.77	28.67	28.21	29.09	29.54	27.77	28.67	28.21	29.09	29.54
	6H	27.88	28.66	28.34	29.10	29.57	27.88	28.66	28.34	29.10	29.57
	8H	27.87	28.60	28.34	29.05	29.52	27.87	28.60	28.34	29.05	29.52
	12H	27.86	28.51	28.34	28.99	29.46	27.86	28.51	28.34	28.99	29.46
8H	4H	27.81	28.54	28.28	28.98	29.45	27.81	28.54	28.28	28.98	29.45
	6H	27.94	28.53	28.44	29.03	29.51	27.94	28.53	28.44	29.03	29.51
	8H	27.94	28.47	28.46	28.99	29.48	27.94	28.47	28.46	28.99	29.48
	12H	27.94	28.41	28.45	28.90	29.47	27.94	28.41	28.45	28.90	29.47
12H	4H	27.79	28.43	28.27	28.91	29.39	27.79	28.43	28.27	28.91	29.39
	6H	27.90	28.44	28.42	28.95	29.44	27.90	28.44	28.42	28.95	29.44
	8H	27.93	28.40	28.45	28.90	29.47	27.93	28.40	28.45	28.90	29.47