

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: PrentaLux

Report Number: P735806

Luminaire Tested: PRLX-UHBS-2436-MV-L84050-WHTE(4000K\_L36\_277V)

Issue Date: 1/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P735806  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2312-243-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-UHBS-2436-MV-L84050-WHTE(4000K\_L36\_277V)  
Description: PRENATALUX LARGE HIGH BAY LUMINAIRE WITH WHITE SHADE  
LIGHT LEVEL 3 - 36,0000 NOMINAL LUMENS  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

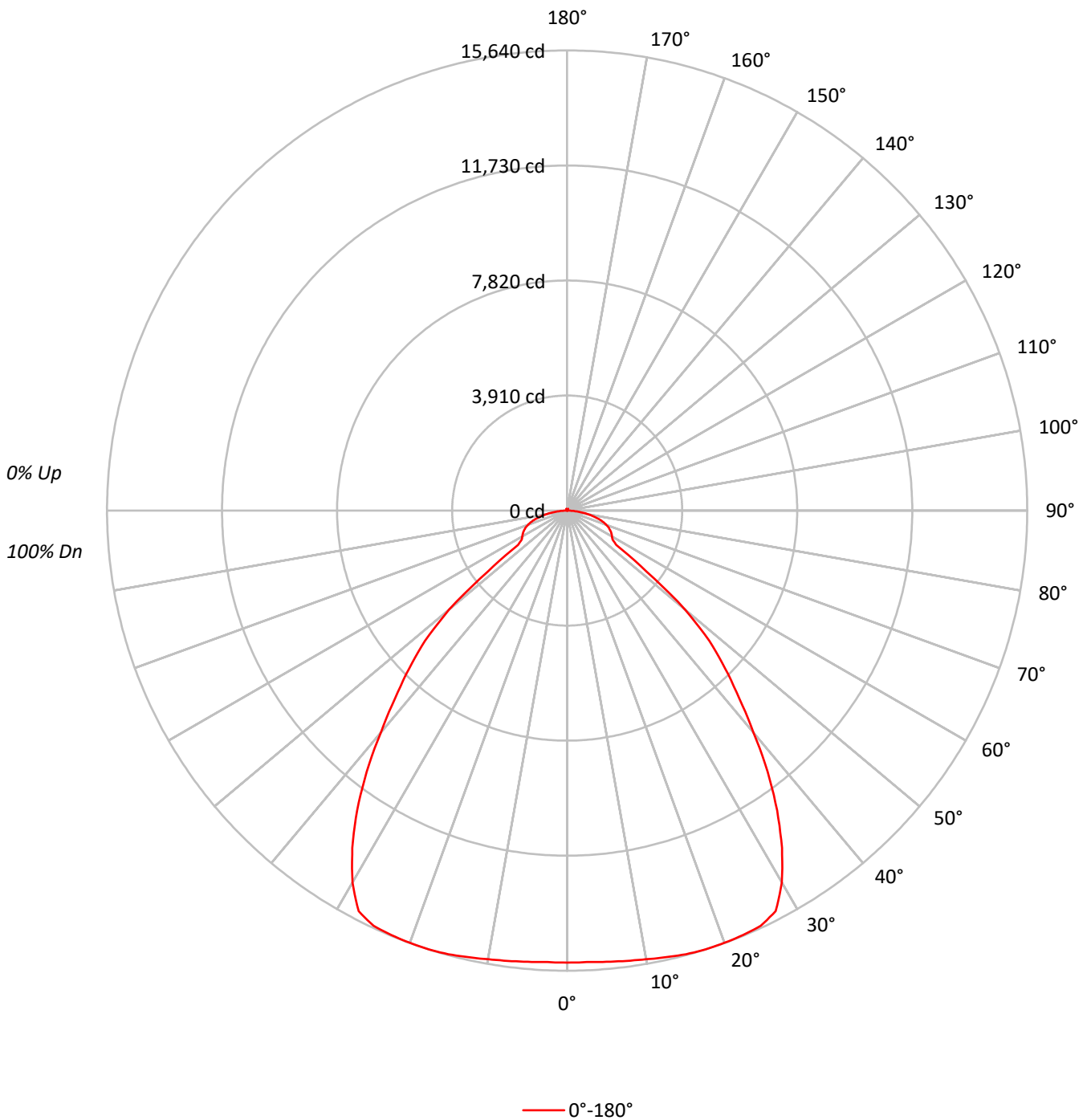
Lumens per Lamp: N/A  
Luminaire Lumens: 32220.4 lumens  
Efficiency: N/A  
Efficacy: 139.5 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.25  
Luminous Opening: Vertical Cylinder (Dia: 1.71' x H: 1.04')  
CIE Type: Direct

Input Watts (W): 230.9  
Input Voltage (V): 277  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

TEST NUMBER: P735806

CATALOG NUMBER: PRLX-UHBS-2436-MV-L84050-WHTE(4000K\_L36\_277V)

### Luminous Intensity Polar Plot





TEST NUMBER: P735806

CATALOG NUMBER: PRLX-UHBS-2436-MV-L84050-WHTE(4000K\_L36\_277V)

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	103	100	108	105	101	98	100	98	95	96	94	92	93	91	90	88
2	103	96	90	86	100	94	89	84	91	86	83	87	84	81	84	81	79	77
3	95	86	80	74	93	85	79	74	82	77	72	79	75	71	77	73	70	68
4	88	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60
5	82	71	64	58	80	70	63	57	68	62	57	66	61	56	64	60	56	54
6	77	65	57	52	75	64	57	51	62	56	51	61	55	51	59	54	50	48
7	72	60	52	47	70	59	52	46	58	51	46	56	50	46	55	49	45	44
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	45	41	40
9	63	51	44	39	62	50	43	38	49	43	38	48	42	38	47	42	38	36
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	72151
5°	67947
10°	64948
15°	62822
20°	60921
25°	59245
30°	54652
35°	46216
40°	36606
45°	28423
50°	19854
55°	7929
60°	7053
65°	6768
70°	6223
75°	5183
80°	3614
85°	1785

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 28423 cd/sqm



TEST NUMBER: P735806

CATALOG NUMBER: PRLX-UHBS-2436-MV-L84050-WHTE(4000K\_L36\_277V)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1472.4	4.6
10°-20°	4421.5	13.7
20°-30°	7123.5	22.1
30°-40°	7709.8	23.9
40°-50°	5829.5	18.1
50°-60°	2387.2	7.4
60°-70°	1597.4	5.0
70°-80°	1157.3	3.6
80°-90°	368.0	1.1
90°-100°	10.2	0.0
100°-110°	13.3	0.0
110°-120°	17.1	0.1
120°-130°	20.7	0.1
130°-140°	26.6	0.1
140°-150°	32.6	0.1
150°-160°	23.9	0.1
160°-170°	7.2	0.0
170°-180°	2.3	0.0
0°-30°	13017.3	40.4
0°-40°	20727.2	64.3
0°-60°	28943.9	89.8
0°-90°	32066.6	99.5
90°-120°	40.6	0.1
90°-150°	120.5	0.4
90°-180°	154.0	0.5
0°-180°	32220.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	15364	
5°	15393	###
15°	15610	4421
25°	15573	7123
35°	12444	7710
45°	7602	5829
55°	2042	2387
65°	1623	1597
75°	1113	1157
85°	327	348
90°	12	23
95°	9	8
105°	13	13
115°	17	17
125°	23	21
135°	34	27
145°	52	33
155°	53	24
165°	23	7
175°	24	2
180°	26	

TEST NUMBER: P735806

CATALOG NUMBER: PRLX-UHBS-2436-MV-L84050-WHTE(4000K\_L36\_277V)

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	15364.2
2.5°	15361.9
5°	15392.9
7.5°	15436.5
10°	15484.7
12.5°	15549.0
15°	15609.8
17.5°	15639.7
20°	15635.1
22.5°	15615.6
25°	15573.1
27.5°	15352.7
30°	14596.3
32.5°	13590.7
35°	12444.0
37.5°	11198.6
40°	9861.3
42.5°	8651.5
45°	7602.3
47.5°	6552.0
50°	5232.0
52.5°	3408.0
55°	2042.1
57.5°	1826.3
60°	1760.8
62.5°	1700.0
65°	1623.1
67.5°	1532.4
70°	1419.9
72.5°	1279.9
75°	1113.4
77.5°	921.7
80°	722.0
82.5°	523.4
85°	327.1
87.5°	135.4
90°	11.5
92.5°	8.0
95°	9.2
97.5°	9.2
100°	10.3
102.5°	11.5
105°	12.6
107.5°	13.8
110°	14.9

TEST NUMBER: P735806

CATALOG NUMBER: PRLX-UHBS-2436-MV-L84050-WHTE(4000K\_L36\_277V)

**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	16.1
115°	17.2
117.5°	18.4
120°	19.5
122.5°	20.7
125°	23.0
127.5°	25.3
130°	27.5
132.5°	31.0
135°	34.4
137.5°	37.9
140°	42.5
142.5°	45.9
145°	51.7
147.5°	58.5
150°	64.3
152.5°	59.7
155°	52.8
157.5°	41.3
160°	33.3
162.5°	25.3
165°	23.0
167.5°	23.0
170°	23.0
172.5°	24.1
175°	24.1
177.5°	25.3
180°	26.4

(END OF REPORT)