

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: P735850

Luminaire Tested: PRLX-UHBS-2436-MV-L84050-WHTE(5000K\_L36\_120V)

Issue Date: 1/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P735850  
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(5000K\_L36\_120V)  
Description: PRENATALUX LARGE HIGH BAY LUMINAIRE WITH WHITE SHADE  
LIGHT LEVEL 3 - 36,0000 NOMINAL LUMENS  
Light Source: 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

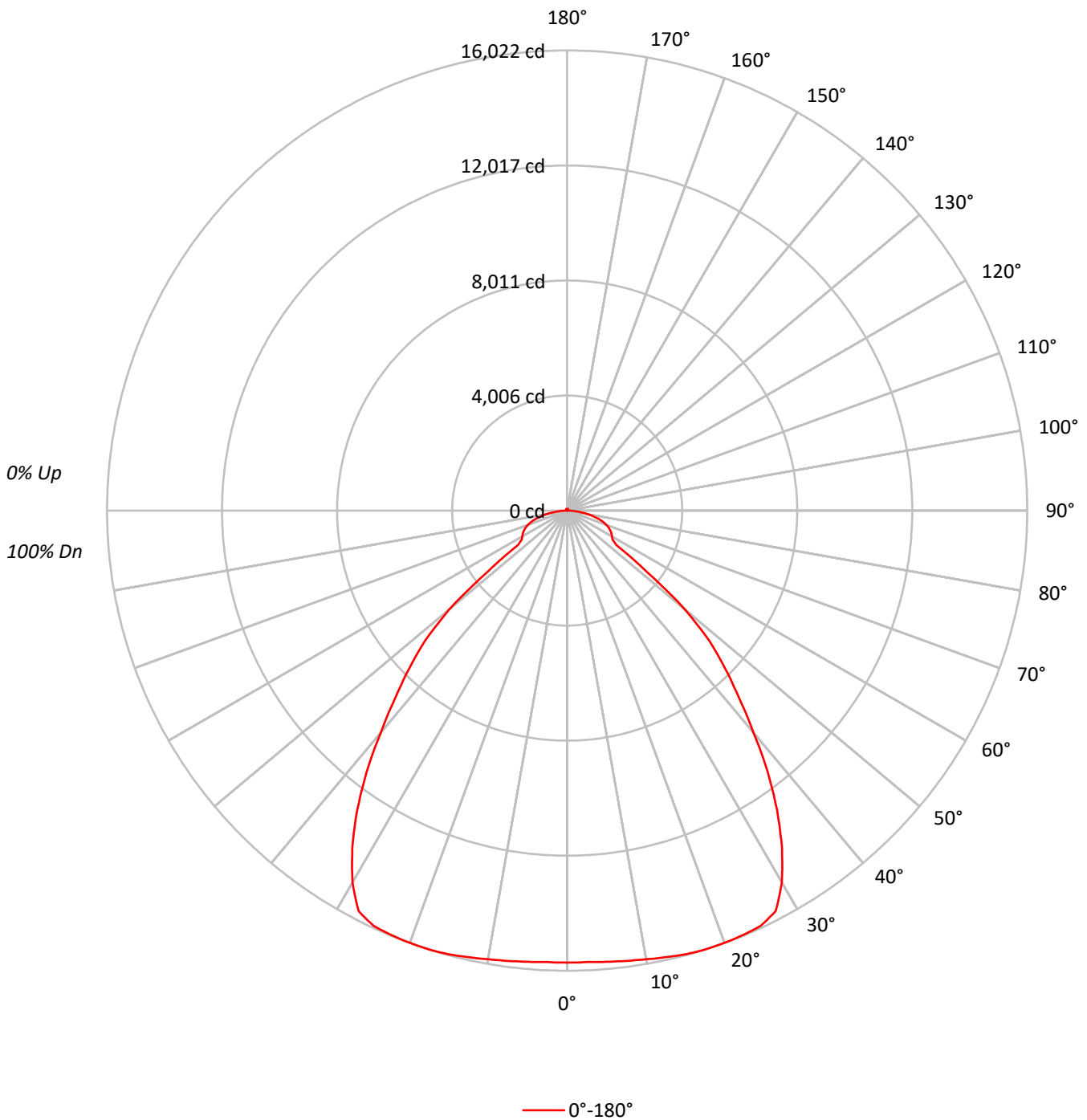
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33007.2 lumens  
Efficiency: N/A  
Efficacy: 138.4 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): 238.5  
Input Voltage (V): 120  
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

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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	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	50	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°	73913
5°	69606
10°	66534
15°	64356
20°	62409
25°	60691
30°	55987
35°	47345
40°	37500
45°	29117
50°	20339
55°	8122
60°	7225
65°	6933
70°	6375
75°	5310
80°	3702
85°	1829

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 29117 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1508.3	4.6
10°-20°	4529.5	13.7
20°-30°	7297.4	22.1
30°-40°	7898.1	23.9
40°-50°	5971.8	18.1
50°-60°	2445.5	7.4
60°-70°	1636.4	5.0
70°-80°	1185.5	3.6
80°-90°	377.0	1.1
90°-100°	10.4	0.0
100°-110°	13.7	0.0
110°-120°	17.5	0.1
120°-130°	21.2	0.1
130°-140°	27.3	0.1
140°-150°	33.4	0.1
150°-160°	24.5	0.1
160°-170°	7.3	0.0
170°-180°	2.4	0.0
0°-30°	13335.2	40.4
0°-40°	21233.3	64.3
0°-60°	29650.7	89.8
0°-90°	32849.6	99.5
90°-120°	41.6	0.1
90°-150°	123.4	0.4
90°-180°	158.0	0.5
0°-180°	33007.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	15739	
5°	15769	###
15°	15991	4529
25°	15953	7297
35°	12748	7898
45°	7788	5972
55°	2092	2445
65°	1663	1636
75°	1141	1186
85°	335	356
90°	12	23
95°	9	8
105°	13	14
115°	18	17
125°	24	21
135°	35	27
145°	53	33
155°	54	24
165°	24	7
175°	25	2
180°	27	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	15739.4
2.5°	15737.0
5°	15768.8
7.5°	15813.5
10°	15862.8
12.5°	15928.7
15°	15991.0
17.5°	16021.6
20°	16016.9
22.5°	15996.9
25°	15953.4
27.5°	15727.6
30°	14952.7
32.5°	13922.6
35°	12747.9
37.5°	11472.0
40°	10102.1
42.5°	8862.7
45°	7788.0
47.5°	6712.0
50°	5359.7
52.5°	3491.2
55°	2091.9
57.5°	1870.9
60°	1803.8
62.5°	1741.5
65°	1662.7
67.5°	1569.8
70°	1454.6
72.5°	1311.1
75°	1140.6
77.5°	944.2
80°	739.6
82.5°	536.2
85°	335.1
87.5°	138.8
90°	11.8
92.5°	8.2
95°	9.4
97.5°	9.4
100°	10.6
102.5°	11.8
105°	12.9
107.5°	14.1
110°	15.3

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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	16.5
115°	17.6
117.5°	18.8
120°	20.0
122.5°	21.2
125°	23.5
127.5°	25.9
130°	28.2
132.5°	31.7
135°	35.3
137.5°	38.8
140°	43.5
142.5°	47.0
145°	52.9
147.5°	60.0
150°	65.9
152.5°	61.1
155°	54.1
157.5°	42.3
160°	34.1
162.5°	25.9
165°	23.5
167.5°	23.5
170°	23.5
172.5°	24.7
175°	24.7
177.5°	25.9
180°	27.0

(END OF REPORT)