

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: P735805

Luminaire Tested: PRLX-UHBS-2436-MV-L84050-WHTE(4000K\_L36\_120V)

Issue Date: 1/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P735805  
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: Pentalux  
Catalog Number: PRLX-UHBS-2436-MV-L84050-WHTE(4000K\_L36\_120V)  
Description: PRENTALUX 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**

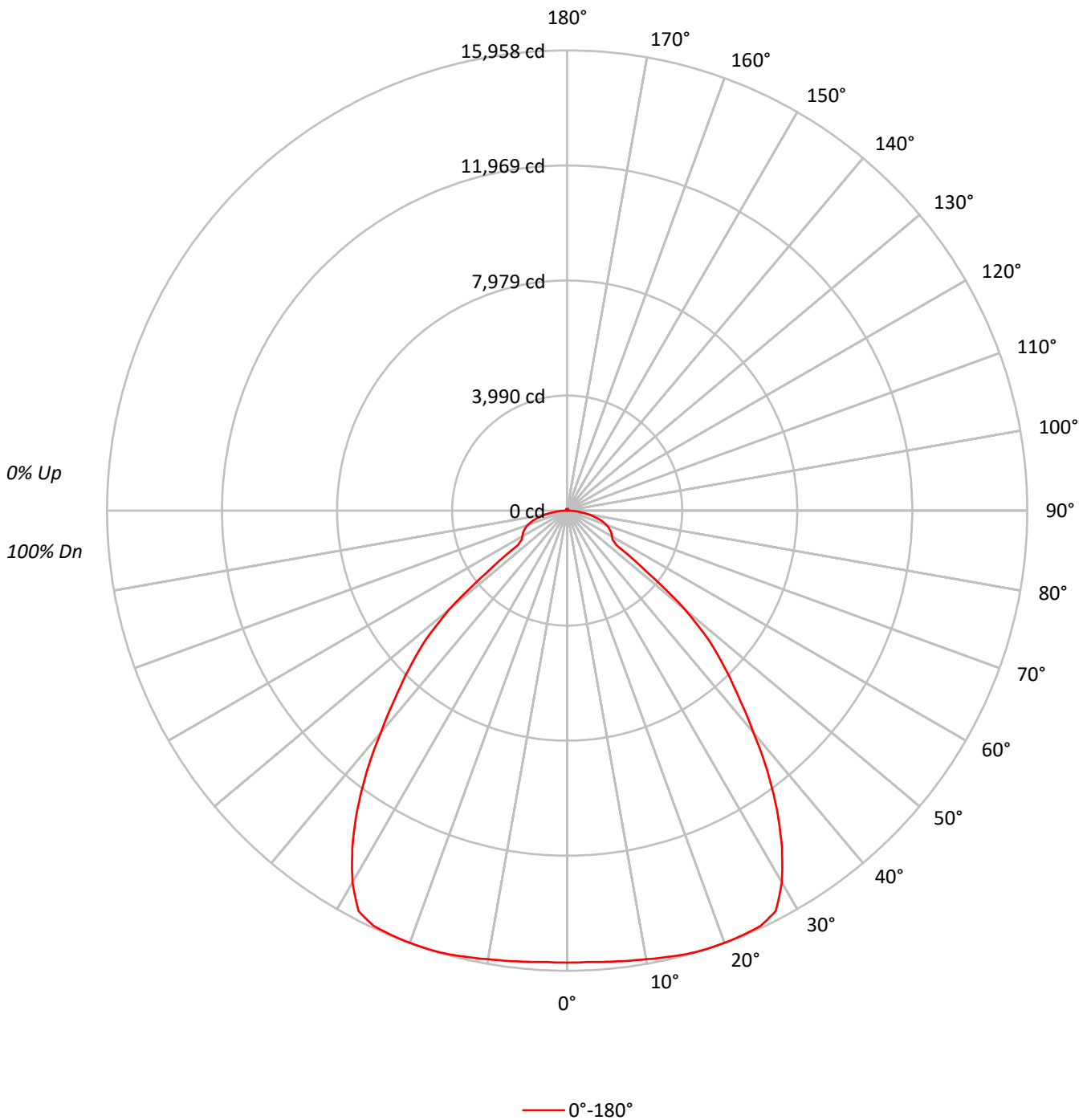
Lumens per Lamp: N/A  
Luminaire Lumens: 32875.3 lumens  
Efficiency: N/A  
Efficacy: 137.0 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.25  
Luminous Opening: Vertical Cylinder (Dia: 1.71' x H: 1.04')  
CIE Type: Direct

Input Watts (W): 239.9  
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	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°	73618
5°	69328
10°	66268
15°	64099
20°	62159
25°	60449
30°	55763
35°	47155
40°	37350
45°	29000
50°	20258
55°	8090
60°	7197
65°	6905
70°	6349
75°	5289
80°	3687
85°	1822

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 29000 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1502.3	4.6
10°-20°	4511.3	13.7
20°-30°	7268.2	22.1
30°-40°	7866.5	23.9
40°-50°	5948.0	18.1
50°-60°	2435.7	7.4
60°-70°	1629.9	5.0
70°-80°	1180.8	3.6
80°-90°	375.5	1.1
90°-100°	10.4	0.0
100°-110°	13.6	0.0
110°-120°	17.4	0.1
120°-130°	21.1	0.1
130°-140°	27.1	0.1
140°-150°	33.3	0.1
150°-160°	24.4	0.1
160°-170°	7.3	0.0
170°-180°	2.3	0.0
0°-30°	13281.9	40.4
0°-40°	21148.4	64.3
0°-60°	29532.1	89.8
0°-90°	32718.3	99.5
90°-120°	41.4	0.1
90°-150°	122.9	0.4
90°-180°	157.0	0.5
0°-180°	32875.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	15676	
5°	15706	###
15°	15927	4511
25°	15890	7268
35°	12697	7867
45°	7757	5948
55°	2084	2436
65°	1656	1630
75°	1136	1181
85°	334	355
90°	12	23
95°	9	8
105°	13	14
115°	18	17
125°	23	21
135°	35	27
145°	53	33
155°	54	24
165°	23	7
175°	25	2
180°	27	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	15676.4
2.5°	15674.1
5°	15705.7
7.5°	15750.2
10°	15799.4
12.5°	15865.0
15°	15927.1
17.5°	15957.5
20°	15952.8
22.5°	15932.9
25°	15889.6
27.5°	15664.7
30°	14892.9
32.5°	13866.9
35°	12696.9
37.5°	11426.2
40°	10061.7
42.5°	8827.3
45°	7756.8
47.5°	6685.2
50°	5338.3
52.5°	3477.3
55°	2083.6
57.5°	1863.4
60°	1796.6
62.5°	1734.5
65°	1656.1
67.5°	1563.5
70°	1448.8
72.5°	1305.9
75°	1136.1
77.5°	940.5
80°	736.7
82.5°	534.1
85°	333.8
87.5°	138.2
90°	11.7
92.5°	8.2
95°	9.4
97.5°	9.4
100°	10.5
102.5°	11.7
105°	12.9
107.5°	14.1
110°	15.2

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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	16.4
115°	17.6
117.5°	18.7
120°	19.9
122.5°	21.1
125°	23.4
127.5°	25.8
130°	28.1
132.5°	31.6
135°	35.1
137.5°	38.6
140°	43.3
142.5°	46.8
145°	52.7
147.5°	59.7
150°	65.6
152.5°	60.9
155°	53.9
157.5°	42.2
160°	34.0
162.5°	25.8
165°	23.4
167.5°	23.4
170°	23.4
172.5°	24.6
175°	24.6
177.5°	25.8
180°	26.9

(END OF REPORT)