

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: P735851

Luminaire Tested: PRLX-UHBS-2436-MV-L84050-WHTE(5000K\_L36\_277V)

Issue Date: 1/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P735851  
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\_277V)  
Description: PRENALLUX 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**

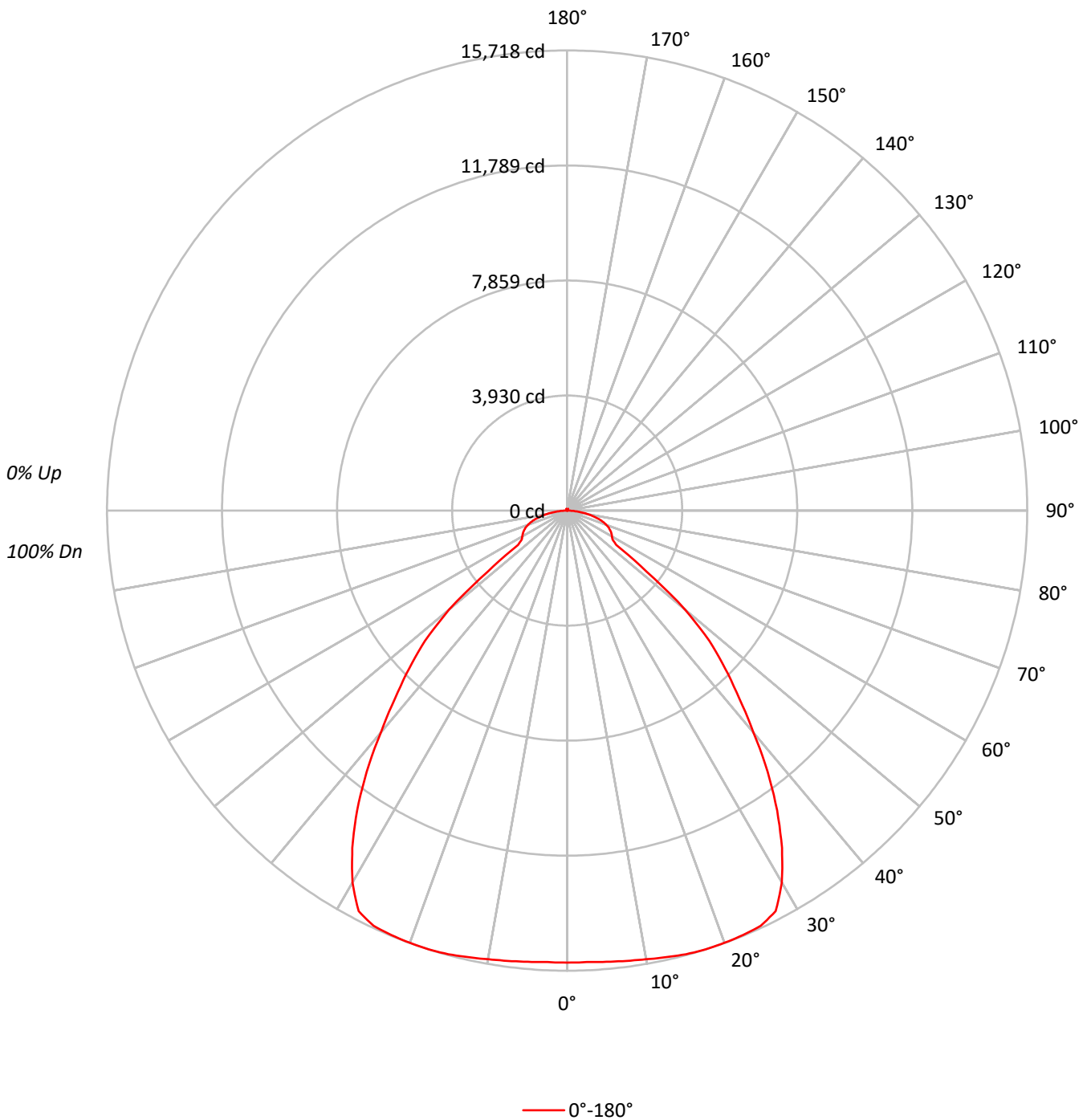
Lumens per Lamp: N/A  
Luminaire Lumens: 32381.1 lumens  
Efficiency: N/A  
Efficacy: 140.8 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.25  
Luminous Opening: Vertical Cylinder (Dia: 1.71' x H: 1.04')  
CIE Type: Direct

Input Watts (W): 229.9  
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

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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°	72511
5°	68286
10°	65272
15°	63136
20°	61225
25°	59540
30°	54925
35°	46447
40°	36788
45°	28564
50°	19953
55°	7968
60°	7088
65°	6802
70°	6254
75°	5209
80°	3632
85°	1794

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 28564 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1479.7	4.6
10°-20°	4443.5	13.7
20°-30°	7159.0	22.1
30°-40°	7748.3	23.9
40°-50°	5858.6	18.1
50°-60°	2399.1	7.4
60°-70°	1605.4	5.0
70°-80°	1163.1	3.6
80°-90°	369.8	1.1
90°-100°	10.2	0.0
100°-110°	13.4	0.0
110°-120°	17.2	0.1
120°-130°	20.8	0.1
130°-140°	26.8	0.1
140°-150°	32.8	0.1
150°-160°	24.0	0.1
160°-170°	7.2	0.0
170°-180°	2.3	0.0
0°-30°	13082.3	40.4
0°-40°	20830.6	64.3
0°-60°	29088.2	89.8
0°-90°	32226.5	99.5
90°-120°	40.8	0.1
90°-150°	121.1	0.4
90°-180°	155.0	0.5
0°-180°	32381.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	15441	
5°	15470	###
15°	15688	4444
25°	15651	7159
35°	12506	7748
45°	7640	5859
55°	2052	2399
65°	1631	1605
75°	1119	1163
85°	329	350
90°	12	23
95°	9	8
105°	13	13
115°	17	17
125°	23	21
135°	35	27
145°	52	33
155°	53	24
165°	23	7
175°	24	2
180°	26	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	15440.8
2.5°	15438.5
5°	15469.7
7.5°	15513.5
10°	15561.9
12.5°	15626.5
15°	15687.7
17.5°	15717.7
20°	15713.1
22.5°	15693.5
25°	15650.8
27.5°	15429.3
30°	14669.1
32.5°	13658.5
35°	12506.1
37.5°	11254.4
40°	9910.5
42.5°	8694.6
45°	7640.2
47.5°	6584.7
50°	5258.1
52.5°	3425.0
55°	2052.2
57.5°	1835.4
60°	1769.6
62.5°	1708.5
65°	1631.2
67.5°	1540.0
70°	1427.0
72.5°	1286.3
75°	1119.0
77.5°	926.3
80°	725.6
82.5°	526.0
85°	328.8
87.5°	136.1
90°	11.5
92.5°	8.1
95°	9.2
97.5°	9.2
100°	10.4
102.5°	11.5
105°	12.7
107.5°	13.8
110°	15.0

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CATALOG NUMBER: PRLX-UHBS-2436-MV-L84050-WHTE(5000K\_L36\_277V)

**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	16.2
115°	17.3
117.5°	18.5
120°	19.6
122.5°	20.8
125°	23.1
127.5°	25.4
130°	27.7
132.5°	31.1
135°	34.6
137.5°	38.1
140°	42.7
142.5°	46.1
145°	51.9
147.5°	58.8
150°	64.6
152.5°	60.0
155°	53.1
157.5°	41.5
160°	33.5
162.5°	25.4
165°	23.1
167.5°	23.1
170°	23.1
172.5°	24.2
175°	24.2
177.5°	25.4
180°	26.5

(END OF REPORT)