

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: P735803

Luminaire Tested: PRLX-UHBS-2436-MV-L84050-WHTE(4000K\_L31\_277V)

Issue Date: 1/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P735803  
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\_L31\_277V)  
Description: PRENATALUX LARGE HIGH BAY LUMINAIRE WITH WHITE SHADE  
LIGHT LEVEL 2 - 31,000 NOMINAL LUMENS  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

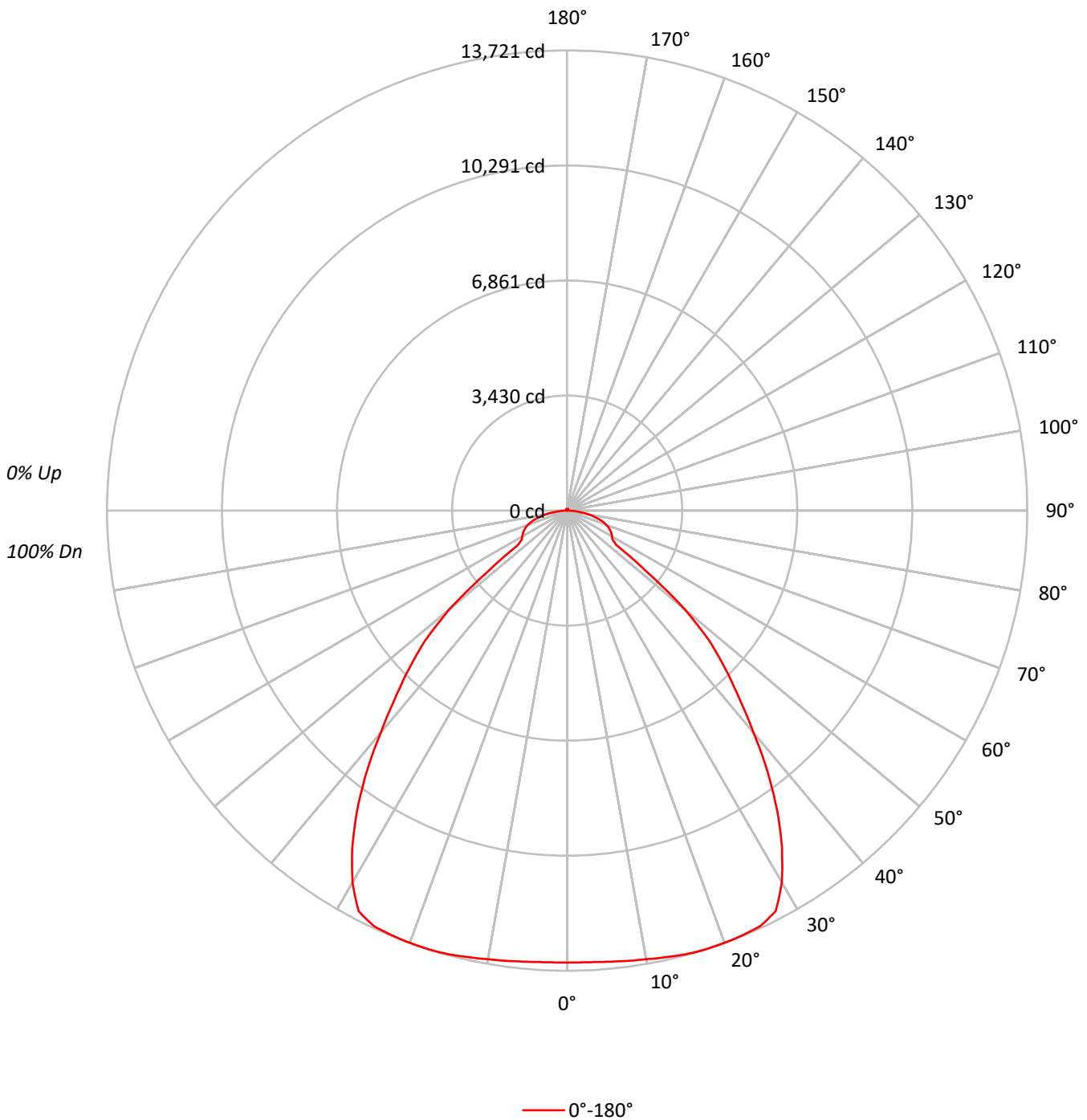
Lumens per Lamp: N/A  
Luminaire Lumens: 28267.8 lumens  
Efficiency: N/A  
Efficacy: 149.2 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.25  
Luminous Opening: Vertical Cylinder (Dia: 1.71' x H: 1.04')  
CIE Type: Direct

Input Watts (W): 189.5  
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°	63300
5°	59612
10°	56981
15°	55116
20°	53447
25°	51977
30°	47948
35°	40546
40°	32115
45°	24936
50°	17418
55°	6956
60°	6188
65°	5938
70°	5459
75°	4547
80°	3170
85°	1566

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 24936 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1291.7	4.6
10°-20°	3879.1	13.7
20°-30°	6249.6	22.1
30°-40°	6764.0	23.9
40°-50°	5114.3	18.1
50°-60°	2094.3	7.4
60°-70°	1401.5	5.0
70°-80°	1015.3	3.6
80°-90°	322.9	1.1
90°-100°	8.9	0.0
100°-110°	11.7	0.0
110°-120°	15.0	0.1
120°-130°	18.1	0.1
130°-140°	23.4	0.1
140°-150°	28.6	0.1
150°-160°	21.0	0.1
160°-170°	6.3	0.0
170°-180°	2.0	0.0
0°-30°	11420.4	40.4
0°-40°	18184.5	64.3
0°-60°	25393.1	89.8
0°-90°	28132.8	99.5
90°-120°	35.6	0.1
90°-150°	105.7	0.4
90°-180°	135.0	0.5
0°-180°	28267.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	13479	
5°	13505	###
15°	13695	3879
25°	13663	6250
35°	10917	6764
45°	6670	5114
55°	1792	2094
65°	1424	1401
75°	977	1015
85°	287	305
90°	10	20
95°	8	7
105°	11	12
115°	15	15
125°	20	18
135°	30	23
145°	45	29
155°	46	21
165°	20	6
175°	21	2
180°	23	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	13479.4
2.5°	13477.4
5°	13504.6
7.5°	13542.8
10°	13585.1
12.5°	13641.5
15°	13694.9
17.5°	13721.1
20°	13717.0
22.5°	13699.9
25°	13662.7
27.5°	13469.3
30°	12805.7
32.5°	11923.5
35°	10917.4
37.5°	9824.8
40°	8651.6
42.5°	7590.1
45°	6669.7
47.5°	5748.2
50°	4590.1
52.5°	2989.9
55°	1791.5
57.5°	1602.2
60°	1544.8
62.5°	1491.4
65°	1424.0
67.5°	1344.4
70°	1245.7
72.5°	1122.9
75°	976.8
77.5°	808.7
80°	633.4
82.5°	459.2
85°	287.0
87.5°	118.8
90°	10.1
92.5°	7.0
95°	8.1
97.5°	8.1
100°	9.1
102.5°	10.1
105°	11.1
107.5°	12.1
110°	13.1

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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	14.1
115°	15.1
117.5°	16.1
120°	17.1
122.5°	18.1
125°	20.1
127.5°	22.2
130°	24.2
132.5°	27.2
135°	30.2
137.5°	33.2
140°	37.3
142.5°	40.3
145°	45.3
147.5°	51.4
150°	56.4
152.5°	52.4
155°	46.3
157.5°	36.3
160°	29.2
162.5°	22.2
165°	20.1
167.5°	20.1
170°	20.1
172.5°	21.1
175°	21.1
177.5°	22.2
180°	23.2

(END OF REPORT)