

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: P735767

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

Issue Date: 1/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P735767  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2312-243-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-UHBS-2436-MV-L84050-BLAK(4000K\_L31\_277V)  
Description: PRENALLUX LARGE HIGH BAY LUMINAIRE WITH BLACK SHADE  
LIGHT LEVEL 2 - 31,000 NOMINAL LUMENS  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

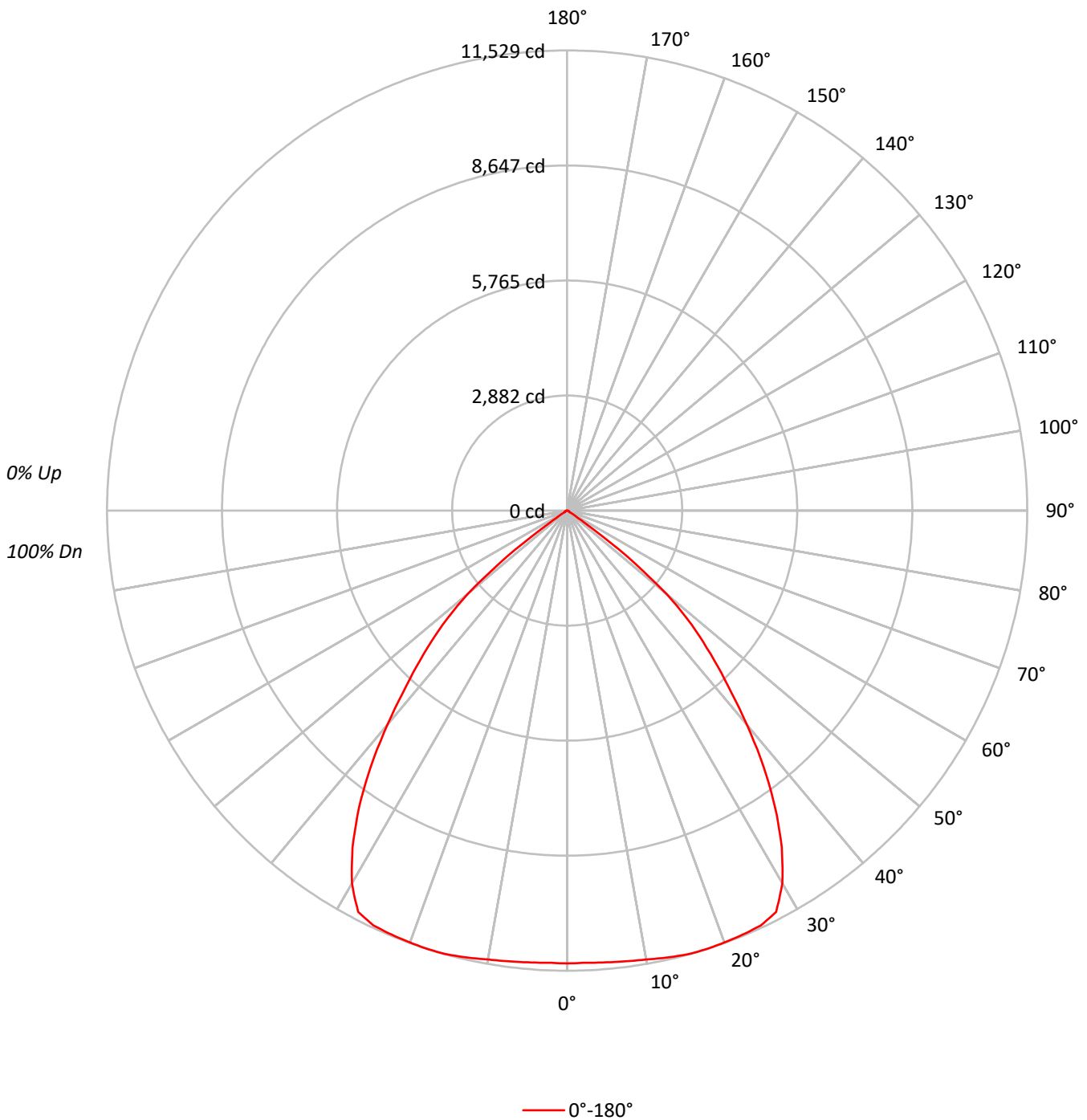
Lumens per Lamp: N/A  
Luminaire Lumens: 20143.6 lumens  
Efficiency: N/A  
Efficacy: 106.5 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.31 / 1.23  
Luminous Opening: Vertical Cylinder (Dia: 1.71' x H: 1.04')  
CIE Type: Direct

Input Watts (W): 189.1  
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	113	109	106	104	110	107	105	102	103	101	99		99	98	96		96	95	93	91
2	106	100	95	91	103	98	94	90	95	91	88		92	89	86		89	87	84	83
3	99	91	86	81	97	90	85	80	87	83	79		85	81	78		82	79	76	75
4	93	84	77	72	91	82	76	72	80	75	71		78	74	70		76	72	69	67
5	87	77	70	65	85	76	69	64	74	68	64		72	67	63		70	66	63	61
6	81	71	63	58	79	70	63	58	68	62	58		67	61	57		65	61	57	55
7	76	65	58	53	75	64	58	53	63	57	52		62	56	52		60	56	52	50
8	71	60	53	48	70	60	53	48	58	52	48		57	52	48		56	51	47	46
9	67	56	49	44	66	55	49	44	54	48	44		53	48	44		52	47	44	42
10	63	52	45	41	62	51	45	40	50	44	40		50	44	40		49	44	40	39

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

	0°
0°	53279
5°	50157
10°	47904
15°	46357
20°	44866
25°	43636
30°	40391
35°	33762
40°	25988
45°	18995
50°	12355
55°	1979
60°	250
65°	223
70°	212
75°	183
80°	131
85°	66

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 18995 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1086.4	5.4
10°-20°	3260.4	16.2
20°-30°	5252.6	26.1
30°-40°	5619.9	27.9
40°-50°	3911.9	19.4
50°-60°	904.7	4.5
60°-70°	53.4	0.3
70°-80°	40.7	0.2
80°-90°	13.7	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	9599.4	47.7
0°-40°	15219.3	75.6
0°-60°	20035.9	99.5
0°-90°	20143.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20143.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	11345	
5°	11363	###
15°	11519	3260
25°	11470	5253
35°	9091	5620
45°	5081	3912
55°	510	905
65°	53	53
75°	39	41
85°	12	14
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	11345.4
2.5°	11337.4
5°	11362.6
7.5°	11388.7
10°	11421.0
12.5°	11471.3
15°	11518.7
17.5°	11528.7
20°	11514.6
22.5°	11499.5
25°	11470.3
27.5°	11337.4
30°	10787.5
32.5°	10009.1
35°	9090.7
37.5°	8086.6
40°	7001.0
42.5°	5967.8
45°	5080.6
47.5°	4226.6
50°	3255.8
52.5°	1908.4
55°	509.6
57.5°	86.6
60°	62.4
62.5°	56.4
65°	53.4
67.5°	50.4
70°	48.3
72.5°	44.3
75°	39.3
77.5°	33.2
80°	26.2
82.5°	19.1
85°	12.1
87.5°	6.0
90°	0.0

(END OF REPORT)