

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: P735812

Luminaire Tested: PRLX-UHBS-2436-MV-L84050-BLAK(5000K\_L31\_277V)

Issue Date: 1/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P735812  
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(5000K\_L31\_277V)  
Description: PRENALLUX LARGE HIGH BAY LUMINAIRE WITH BLACK SHADE  
LIGHT LEVEL 2 - 31,000 NOMINAL LUMENS  
Light Source: 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

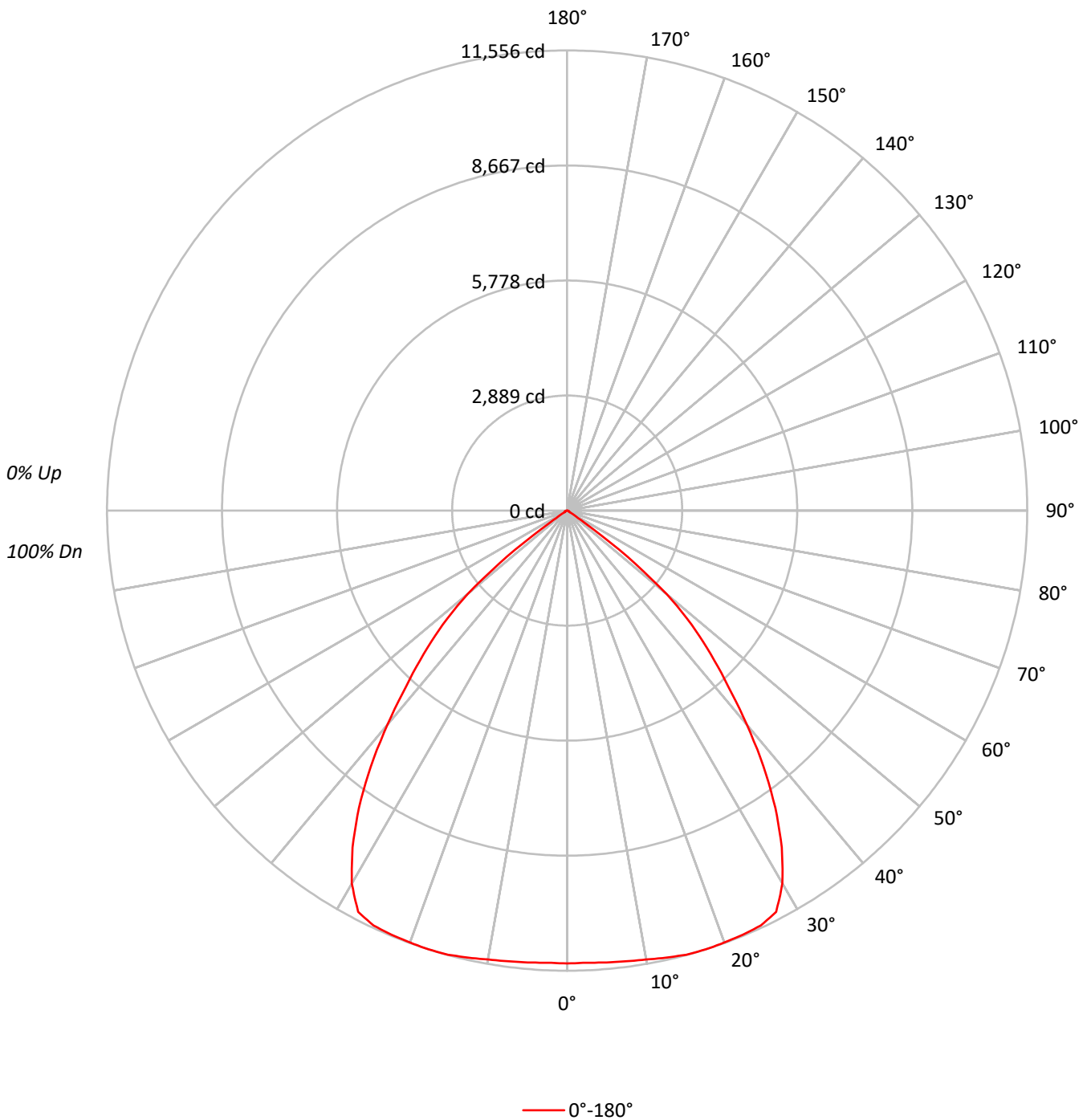
Lumens per Lamp: N/A  
Luminaire Lumens: 20191.7 lumens  
Efficiency: N/A  
Efficacy: 107.5 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.31 / 1.23  
Luminous Opening: Vertical Cylinder (Dia: 1.71' x H: 1.04')  
CIE Type: Direct

Input Watts (W): 187.9  
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	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°	53406
5°	50276
10°	48018
15°	46468
20°	44973
25°	43741
30°	40488
35°	33843
40°	26050
45°	19040
50°	12385
55°	1983
60°	251
65°	223
70°	213
75°	183
80°	131
85°	66

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 19040 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1089.0	5.4
10°-20°	3268.2	16.2
20°-30°	5265.2	26.1
30°-40°	5633.3	27.9
40°-50°	3921.2	19.4
50°-60°	906.9	4.5
60°-70°	53.5	0.3
70°-80°	40.8	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°	9622.4	47.7
0°-40°	15255.7	75.6
0°-60°	20083.7	99.5
0°-90°	20191.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20191.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	11372	
5°	11390	###
15°	11546	3268
25°	11498	5265
35°	9112	5633
45°	5093	3921
55°	511	907
65°	54	54
75°	39	41
85°	12	14
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	11372.5
2.5°	11364.5
5°	11389.7
7.5°	11416.0
10°	11448.3
12.5°	11498.7
15°	11546.2
17.5°	11556.3
20°	11542.1
22.5°	11527.0
25°	11497.7
27.5°	11364.5
30°	10813.3
32.5°	10033.0
35°	9112.4
37.5°	8105.9
40°	7017.7
42.5°	5982.0
45°	5092.7
47.5°	4236.7
50°	3263.6
52.5°	1912.9
55°	510.8
57.5°	86.8
60°	62.6
62.5°	56.5
65°	53.5
67.5°	50.5
70°	48.5
72.5°	44.4
75°	39.4
77.5°	33.3
80°	26.2
82.5°	19.2
85°	12.1
87.5°	6.1
90°	0.0

(END OF REPORT)