

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: P735764

Luminaire Tested: PRLX-UHBS-2436-MV-L84050-BLAK(4000K\_L24\_277V)

Issue Date: 1/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P735764  
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: PrentaLux  
Catalog Number: PRLX-UHBS-2436-MV-L84050-BLAK(4000K\_L24\_277V)  
Description: PRENTALUX LARGE HIGH BAY LUMINAIRE WITH BLACK SHADE  
LIGHT LEVEL 1 - 24,0000 NOMINAL LUMENS  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

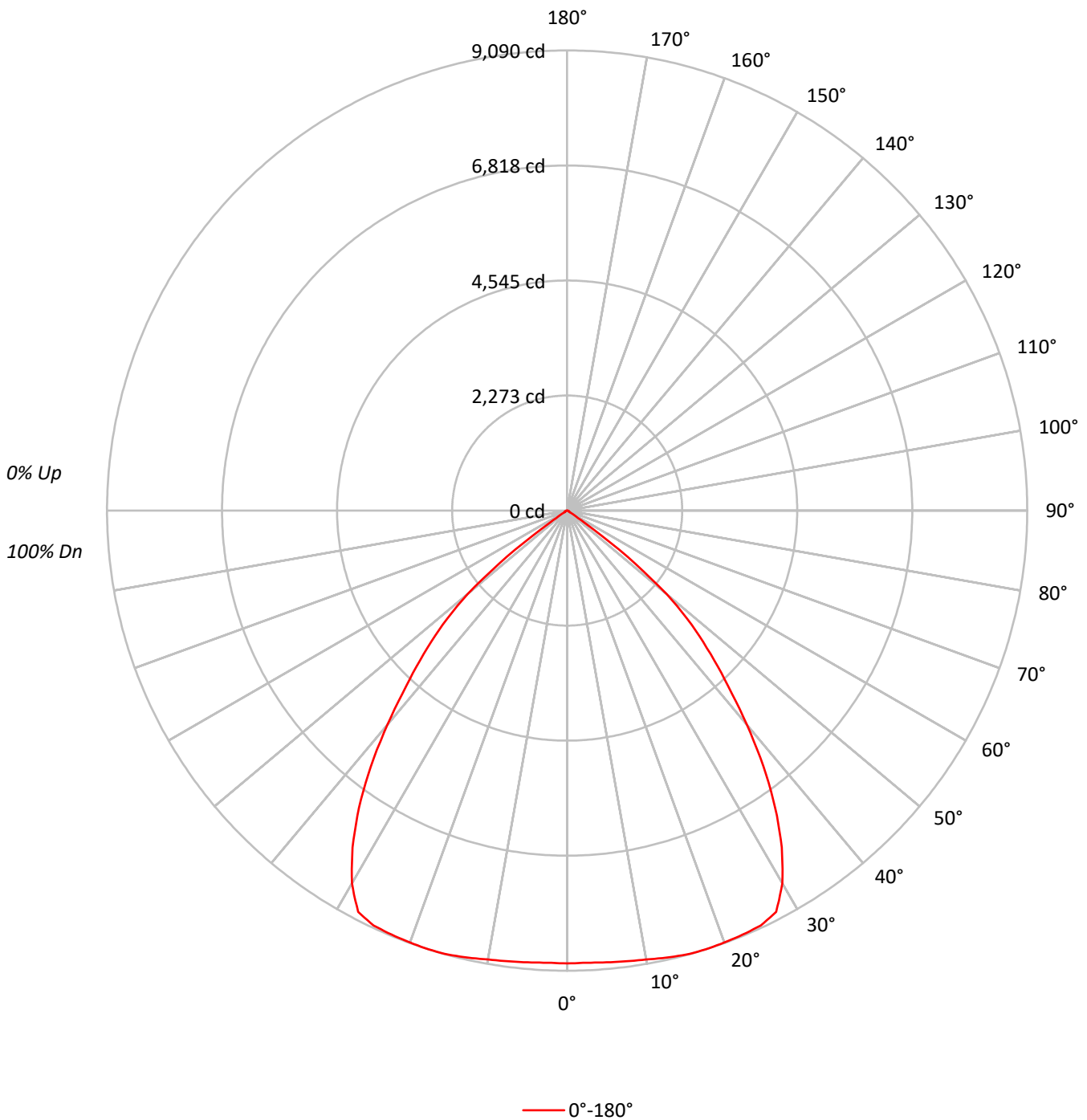
Lumens per Lamp: N/A  
Luminaire Lumens: 15881.9 lumens  
Efficiency: N/A  
Efficacy: 110.1 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.31 / 1.23  
Luminous Opening: Vertical Cylinder (Dia: 1.71' x H: 1.04')  
CIE Type: Direct

Input Watts (W): 144.3  
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°	42007
5°	39545
10°	37769
15°	36550
20°	35374
25°	34405
30°	31846
35°	26619
40°	20490
45°	14976
50°	9741
55°	1560
60°	197
65°	176
70°	167
75°	144
80°	103
85°	52

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 14976 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	856.6	5.4
10°-20°	2570.6	16.2
20°-30°	4141.4	26.1
30°-40°	4430.9	27.9
40°-50°	3084.2	19.4
50°-60°	713.3	4.5
60°-70°	42.1	0.3
70°-80°	32.1	0.2
80°-90°	10.8	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°	7568.5	47.7
0°-40°	11999.4	75.6
0°-60°	15797.0	99.5
0°-90°	15881.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15881.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	8945	
5°	8959	857
15°	9082	2571
25°	9044	4141
35°	7167	4431
45°	4006	3084
55°	402	713
65°	42	42
75°	31	32
85°	10	11
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	8945.1
2.5°	8938.8
5°	8958.6
7.5°	8979.3
10°	9004.7
12.5°	9044.4
15°	9081.7
17.5°	9089.6
20°	9078.5
22.5°	9066.6
25°	9043.6
27.5°	8938.8
30°	8505.3
32.5°	7891.5
35°	7167.4
37.5°	6375.8
40°	5519.8
42.5°	4705.2
45°	4005.7
47.5°	3332.4
50°	2567.0
52.5°	1504.6
55°	401.8
57.5°	68.3
60°	49.2
62.5°	44.5
65°	42.1
67.5°	39.7
70°	38.1
72.5°	34.9
75°	31.0
77.5°	26.2
80°	20.6
82.5°	15.1
85°	9.5
87.5°	4.8
90°	0.0

(END OF REPORT)