

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: P735814

Luminaire Tested: PRLX-UHBS-2436-MV-L84050-BLAK(5000K\_L36\_120V)

Issue Date: 1/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P735814  
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\_L36\_120V)  
Description: PRENATALUX LARGE HIGH BAY LUMINAIRE WITH BLACK SHADE  
LIGHT LEVEL 3 - 36,0000 NOMINAL LUMENS  
Light Source: 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

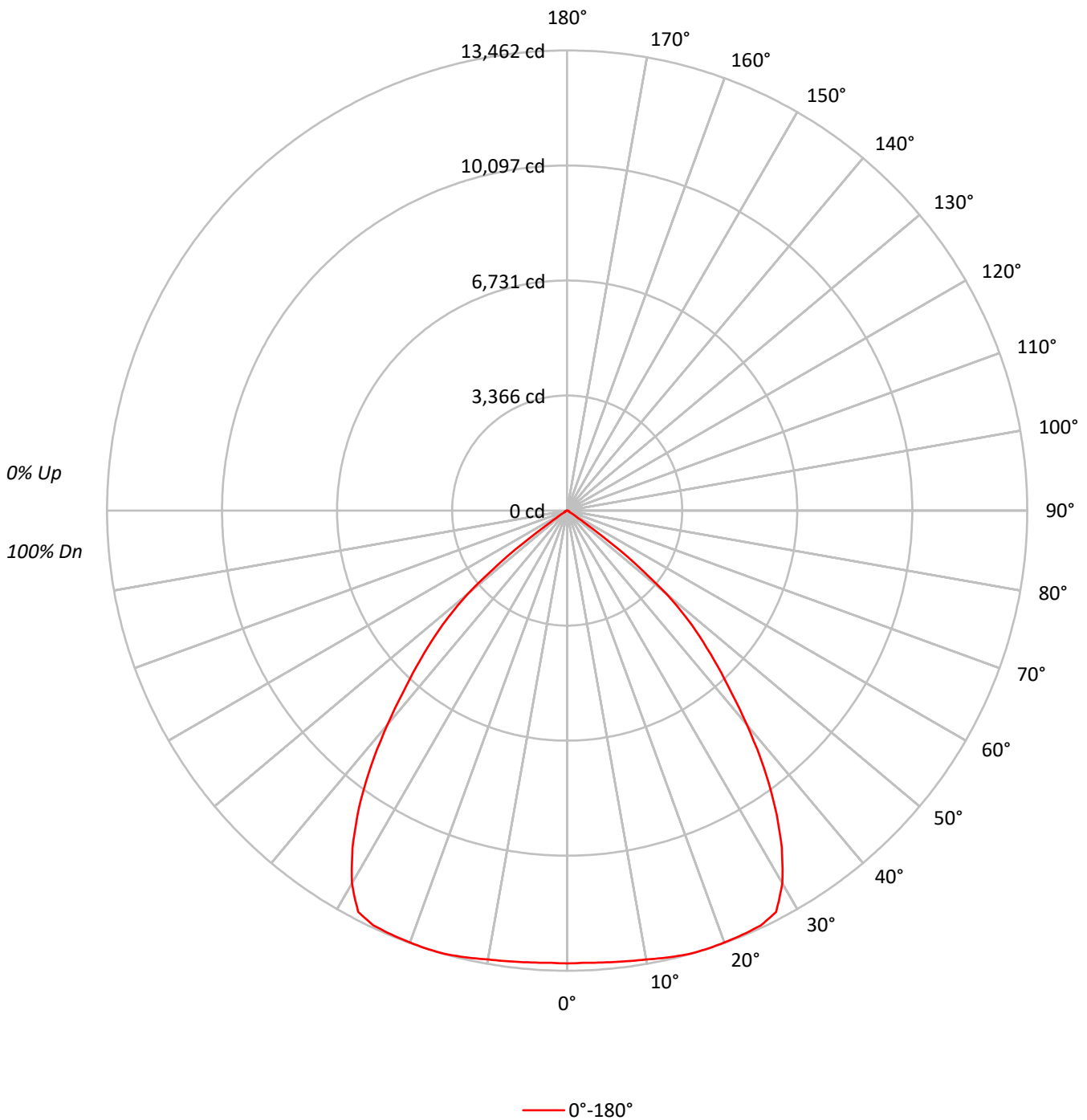
Lumens per Lamp: N/A  
Luminaire Lumens: 23520.9 lumens  
Efficiency: N/A  
Efficacy: 98.6 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.31 / 1.23  
Luminous Opening: Vertical Cylinder (Dia: 1.71' x H: 1.04')  
CIE Type: Direct

Input Watts (W): 238.5  
Input Voltage (V): 120  
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°	62212
5°	58566
10°	55935
15°	54130
20°	52388
25°	50953
30°	47163
35°	39422
40°	30345
45°	22179
50°	14427
55°	2310
60°	292
65°	260
70°	247
75°	214
80°	153
85°	77

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 22179 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1268.6	5.4
10°-20°	3807.0	16.2
20°-30°	6133.3	26.1
30°-40°	6562.1	27.9
40°-50°	4567.7	19.4
50°-60°	1056.4	4.5
60°-70°	62.3	0.3
70°-80°	47.5	0.2
80°-90°	16.0	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°	11208.9	47.7
0°-40°	17771.0	75.6
0°-60°	23395.1	99.5
0°-90°	23520.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23520.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	13248	
5°	13268	###
15°	13450	3807
25°	13394	6133
35°	10615	6562
45°	5932	4568
55°	595	1056
65°	62	62
75°	46	47
85°	14	16
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	13247.7
2.5°	13238.2
5°	13267.6
7.5°	13298.2
10°	13335.8
12.5°	13394.6
15°	13449.9
17.5°	13461.7
20°	13445.2
22.5°	13427.6
25°	13393.5
27.5°	13238.2
30°	12596.2
32.5°	11687.2
35°	10614.8
37.5°	9442.5
40°	8174.8
42.5°	6968.4
45°	5932.4
47.5°	4935.2
50°	3801.7
52.5°	2228.3
55°	595.0
57.5°	101.1
60°	72.9
62.5°	65.9
65°	62.3
67.5°	58.8
70°	56.4
72.5°	51.7
75°	45.9
77.5°	38.8
80°	30.6
82.5°	22.3
85°	14.1
87.5°	7.1
90°	0.0

(END OF REPORT)