

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: P735769

Luminaire Tested: PRLX-UHBS-2436-MV-L84050-BLAK(4000K_L36_120V)

Issue Date: 1/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P735769
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_L36_120V)
Description: PRENATALUX LARGE HIGH BAY LUMINAIRE WITH BLACK SHADE
LIGHT LEVEL 3 - 36,0000 NOMINAL LUMENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

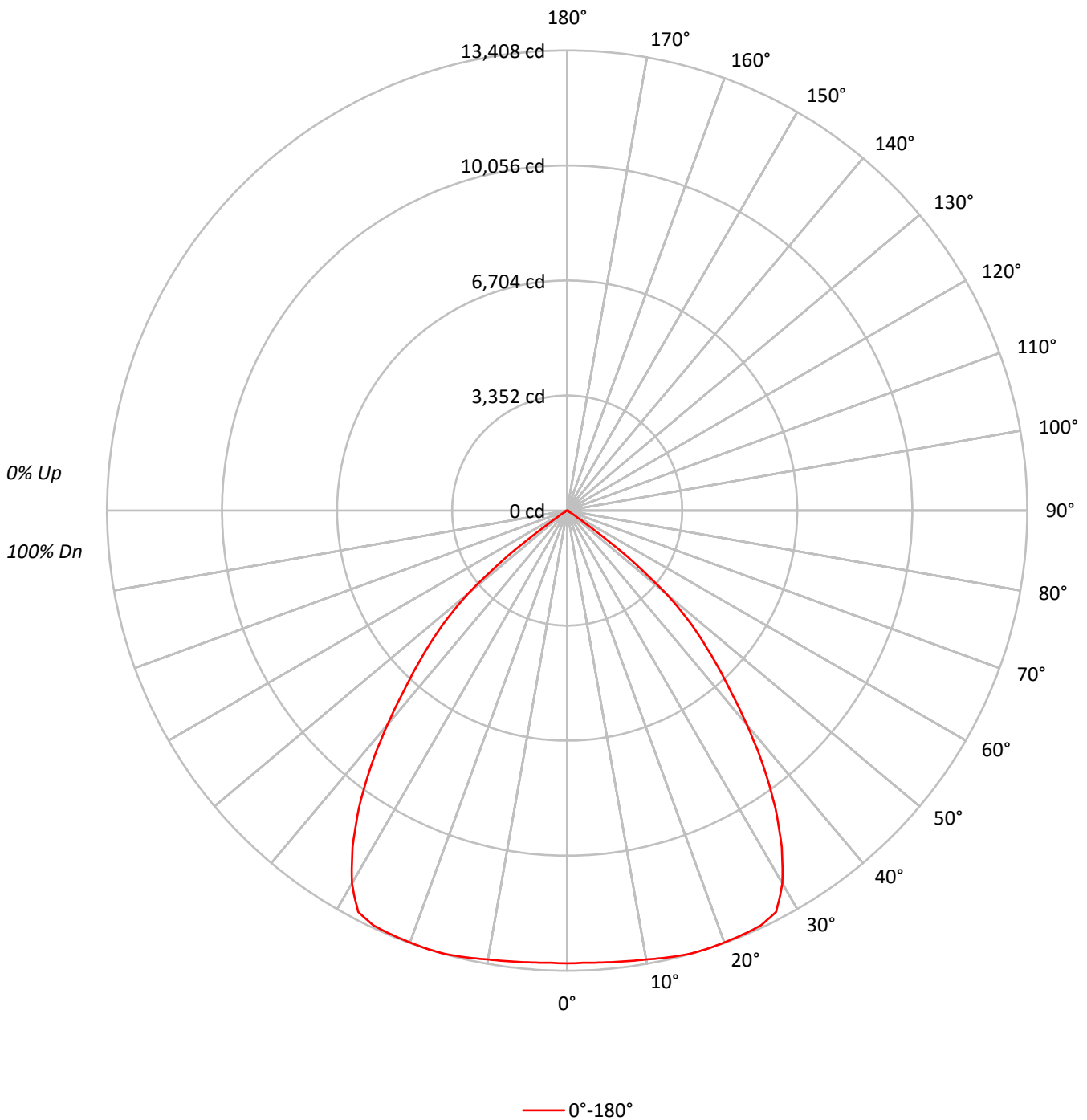
Lumens per Lamp: N/A
Luminaire Lumens: 23426.9 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.31 / 1.23
Luminous Opening: Vertical Cylinder (Dia: 1.71' x H: 1.04')
CIE Type: Direct

Input Watts (W): 239.9
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°	61963
5°	58332
10°	55711
15°	53913
20°	52179
25°	50749
30°	46975
35°	39265
40°	30224
45°	22091
50°	14369
55°	2301
60°	291
65°	259
70°	246
75°	213
80°	153
85°	77

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 22091 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1263.5	5.4
10°-20°	3791.8	16.2
20°-30°	6108.8	26.1
30°-40°	6535.9	27.9
40°-50°	4549.5	19.4
50°-60°	1052.2	4.5
60°-70°	62.1	0.3
70°-80°	47.3	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°	11164.1	47.7
0°-40°	17699.9	75.6
0°-60°	23301.6	99.5
0°-90°	23426.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23426.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	13195	
5°	13215	###
15°	13396	3792
25°	13340	6109
35°	10572	6536
45°	5909	4549
55°	593	1052
65°	62	62
75°	46	47
85°	14	16
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	13194.7
2.5°	13185.3
5°	13214.6
7.5°	13245.0
10°	13282.5
12.5°	13341.1
15°	13396.1
17.5°	13407.8
20°	13391.4
22.5°	13373.9
25°	13339.9
27.5°	13185.3
30°	12545.8
32.5°	11640.5
35°	10572.4
37.5°	9404.7
40°	8142.1
42.5°	6940.5
45°	5908.7
47.5°	4915.5
50°	3786.5
52.5°	2219.4
55°	592.6
57.5°	100.7
60°	72.6
62.5°	65.6
65°	62.1
67.5°	58.6
70°	56.2
72.5°	51.5
75°	45.7
77.5°	38.6
80°	30.5
82.5°	22.3
85°	14.1
87.5°	7.0
90°	0.0

(END OF REPORT)