

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: P735815

Luminaire Tested: PRLX-UHBS-2436-MV-L84050-BLAK(5000K_L36_277V)

Issue Date: 1/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P735815
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_277V)
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

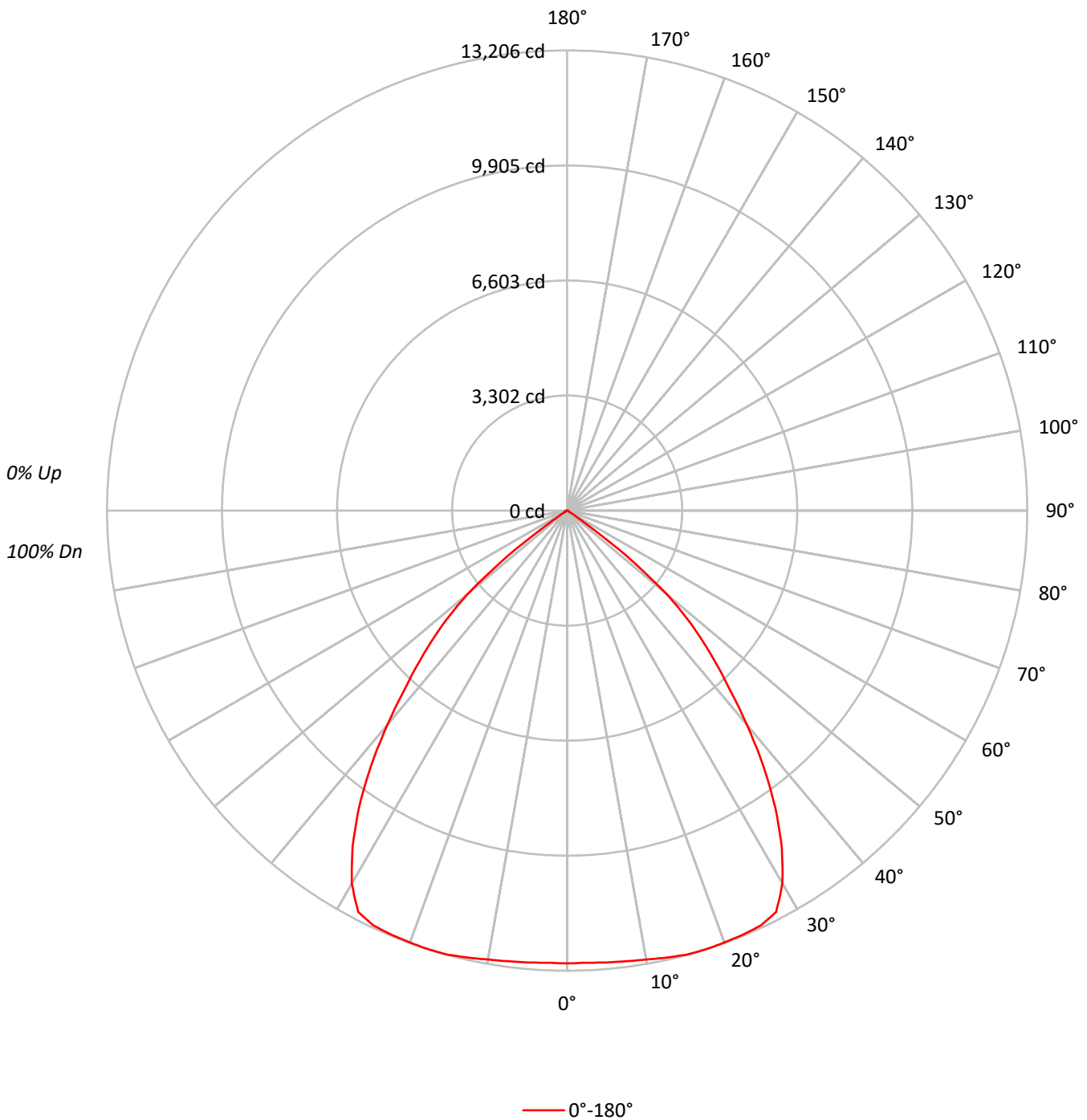
Lumens per Lamp: N/A
Luminaire Lumens: 23074.8 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.31 / 1.23
Luminous Opening: Vertical Cylinder (Dia: 1.71' x H: 1.04')
CIE Type: Direct

Input Watts (W): 229.9
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°	61032
5°	57455
10°	54874
15°	53103
20°	51395
25°	49986
30°	46269
35°	38675
40°	29770
45°	21759
50°	14153
55°	2266
60°	286
65°	255
70°	243
75°	209
80°	150
85°	75

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 21759 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1244.5	5.4
10°-20°	3734.8	16.2
20°-30°	6017.0	26.1
30°-40°	6437.6	27.9
40°-50°	4481.1	19.4
50°-60°	1036.4	4.5
60°-70°	61.2	0.3
70°-80°	46.6	0.2
80°-90°	15.7	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°	10996.3	47.7
0°-40°	17433.9	75.6
0°-60°	22951.4	99.5
0°-90°	23074.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23074.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	12996	
5°	13016	###
15°	13195	3735
25°	13139	6017
35°	10414	6438
45°	5820	4481
55°	584	1036
65°	61	61
75°	45	47
85°	14	16
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	12996.4
2.5°	12987.1
5°	13016.0
7.5°	13046.0
10°	13082.9
12.5°	13140.6
15°	13194.8
17.5°	13206.3
20°	13190.2
22.5°	13172.9
25°	13139.4
27.5°	12987.1
30°	12357.3
32.5°	11465.5
35°	10413.5
37.5°	9263.3
40°	8019.8
42.5°	6836.2
45°	5819.9
47.5°	4841.6
50°	3729.6
52.5°	2186.1
55°	583.7
57.5°	99.2
60°	71.5
62.5°	64.6
65°	61.1
67.5°	57.7
70°	55.4
72.5°	50.8
75°	45.0
77.5°	38.1
80°	30.0
82.5°	21.9
85°	13.8
87.5°	6.9
90°	0.0

(END OF REPORT)