

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: P735802

Luminaire Tested: PRLX-UHBS-2436-MV-L84050-WHTE(4000K_L31_120V)

Issue Date: 1/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P735802
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2312-243-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-UHBS-2436-MV-L84050-WHTE(4000K_L31_120V)
Description: PRENATALUX LARGE HIGH BAY LUMINAIRE WITH WHITE SHADE
LIGHT LEVEL 2 - 31,000 NOMINAL LUMENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

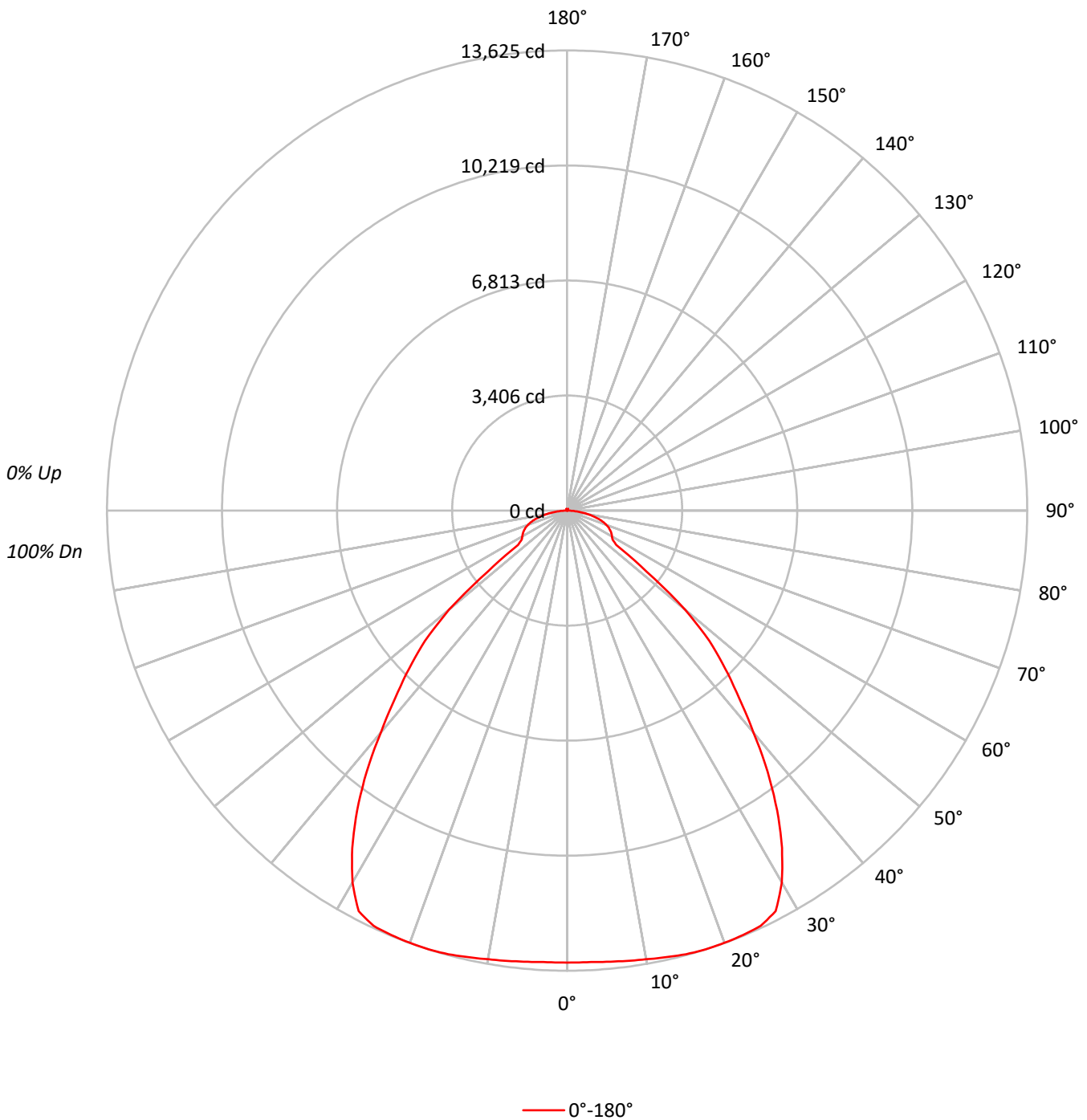
Lumens per Lamp: N/A
Luminaire Lumens: 28069.9 lumens
Efficiency: N/A
Efficacy: 143.7 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.25
Luminous Opening: Vertical Cylinder (Dia: 1.71' x H: 1.04')
CIE Type: Direct

Input Watts (W): 195.4
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

TEST NUMBER: P735802

CATALOG NUMBER: PRLX-UHBS-2436-MV-L84050-WHTE(4000K_L31_120V)

Luminous Intensity Polar Plot





TEST NUMBER: P735802

CATALOG NUMBER: PRLX-UHBS-2436-MV-L84050-WHTE(4000K_L31_120V)

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	111	107	103	100	108	105	101	98	100	98	95	96	94	92	93	91	90	88
2	103	96	90	86	100	94	89	84	91	86	83	87	84	81	84	81	79	77
3	95	86	80	74	93	85	79	74	82	77	72	79	75	71	77	73	70	68
4	88	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60
5	82	71	64	58	80	70	63	57	68	62	57	66	61	56	64	60	56	54
6	77	65	57	52	75	64	57	51	62	56	51	61	55	51	59	54	50	48
7	72	60	52	47	70	59	52	46	58	51	46	56	50	46	55	49	45	44
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	45	41	40
9	63	51	44	39	62	50	43	38	49	43	38	48	42	38	47	42	38	36
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	62857
5°	59194
10°	56582
15°	54730
20°	53073
25°	51613
30°	47612
35°	40262
40°	31890
45°	24761
50°	17296
55°	6907
60°	6145
65°	5896
70°	5421
75°	4516
80°	3148
85°	1555

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 24761 cd/sqm



TEST NUMBER: P735802

CATALOG NUMBER: PRLX-UHBS-2436-MV-L84050-WHTE(4000K_L31_120V)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1282.7	4.6
10°-20°	3851.9	13.7
20°-30°	6205.8	22.1
30°-40°	6716.7	23.9
40°-50°	5078.6	18.1
50°-60°	2079.7	7.4
60°-70°	1391.7	5.0
70°-80°	1008.2	3.6
80°-90°	320.6	1.1
90°-100°	8.9	0.0
100°-110°	11.6	0.0
110°-120°	14.9	0.1
120°-130°	18.0	0.1
130°-140°	23.2	0.1
140°-150°	28.4	0.1
150°-160°	20.8	0.1
160°-170°	6.2	0.0
170°-180°	2.0	0.0
0°-30°	11340.5	40.4
0°-40°	18057.1	64.3
0°-60°	25215.4	89.8
0°-90°	27935.9	99.5
90°-120°	35.3	0.1
90°-150°	105.0	0.4
90°-180°	134.0	0.5
0°-180°	28069.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	13385	
5°	13410	###
15°	13599	3852
25°	13567	6206
35°	10841	6717
45°	6623	5079
55°	1779	2080
65°	1414	1392
75°	970	1008
85°	285	303
90°	10	20
95°	8	7
105°	11	12
115°	15	15
125°	20	18
135°	30	23
145°	45	28
155°	46	21
165°	20	6
175°	21	2
180°	23	

TEST NUMBER: P735802

CATALOG NUMBER: PRLX-UHBS-2436-MV-L84050-WHTE(4000K_L31_120V)

CANDELA DISTRIBUTION (FULL):

0°	
0°	13385
2.5°	13383
5°	13410
7.5°	13448
10°	13490
12.5°	13546
15°	13599
17.5°	13625
20°	13621
22.5°	13604
25°	13567
27.5°	13375
30°	12716
32.5°	11840
35°	10841
37.5°	9756
40°	8591
42.5°	7537
45°	6623
47.5°	5708
50°	4558
52.5°	2969
55°	1779
57.5°	1591
60°	1534
62.5°	1481
65°	1414
67.5°	1335
70°	1237
72.5°	1115
75°	970
77.5°	803
80°	629
82.5°	456
85°	285
87.5°	118
90°	10
92.5°	7
95°	8
97.5°	8
100°	9
102.5°	10
105°	11
107.5°	12
110°	13

TEST NUMBER: P735802

CATALOG NUMBER: PRLX-UHBS-2436-MV-L84050-WHTE(4000K_L31_120V)

CANDELA DISTRIBUTION (continued):

	0°
112.5°	14
115°	15
117.5°	16
120°	17
122.5°	18
125°	20
127.5°	22
130°	24
132.5°	27
135°	30
137.5°	33
140°	37
142.5°	40
145°	45
147.5°	51
150°	56
152.5°	52
155°	46
157.5°	36
160°	29
162.5°	22
165°	20
167.5°	20
170°	20
172.5°	21
175°	21
177.5°	22
180°	23

(END OF REPORT)