

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: P735775

Luminaire Tested: PRLX-UHBS-2436-MV-L84050-CLER(4000K\_L31\_120V)

Issue Date: 1/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P735775  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2312-243-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-UHBS-2436-MV-L84050-CLER(4000K\_L31\_120V)  
Description: PRENTALUX LARGE HIGH BAY LUMINAIRE WITH CLEAR SHADE  
LIGHT LEVEL 2 - 31,000 NOMINAL LUMENS  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

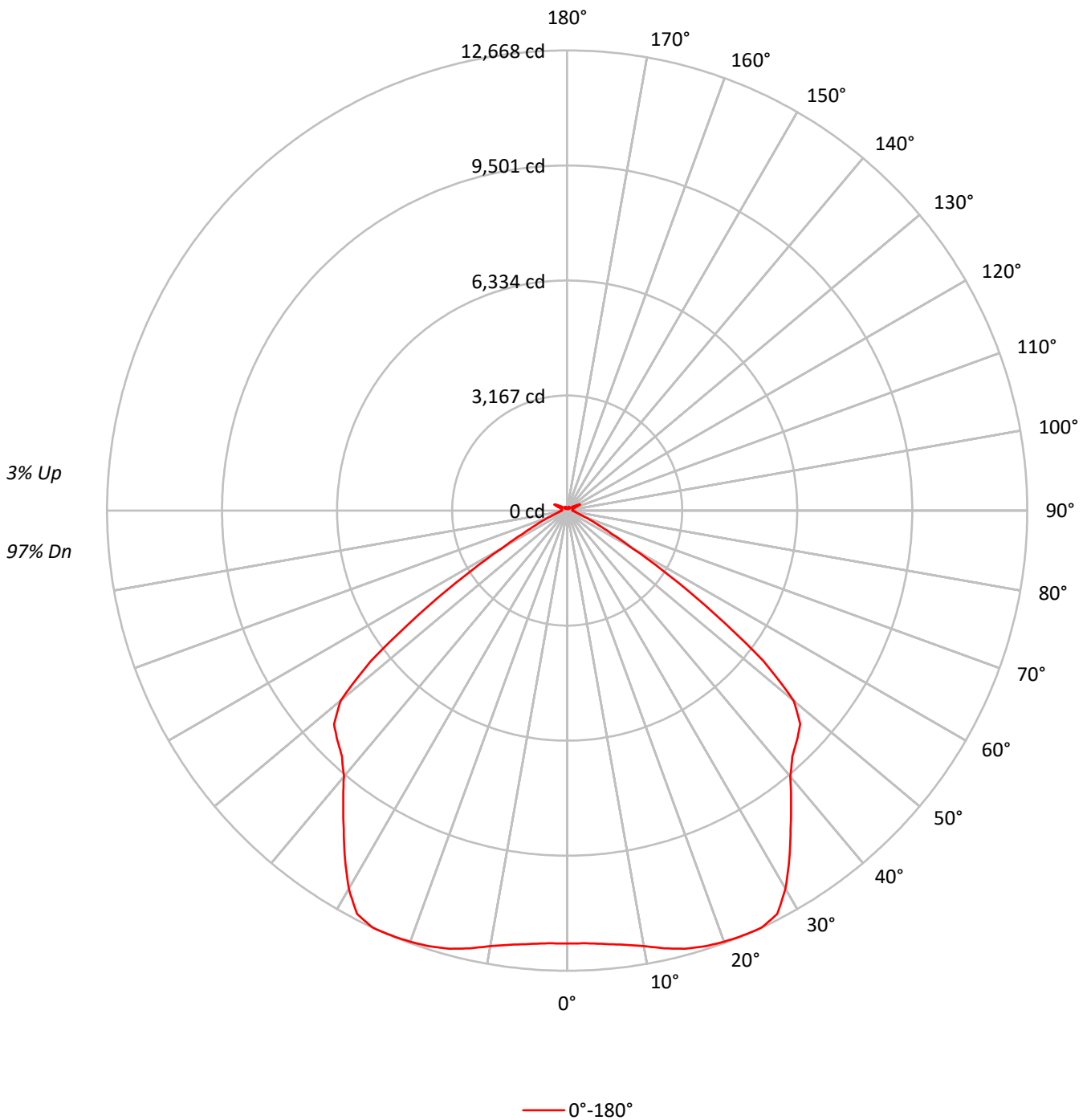
Lumens per Lamp: N/A  
Luminaire Lumens: 31255.2 lumens  
Efficiency: N/A  
Efficacy: 160.4 lumens/watt  
Spacing Criteria (0/90/45): 1.39 / 1.39 / 1.46  
Luminous Opening: Vertical Cylinder (Dia: 1.71' x H: 1.04')  
CIE Type: Direct

Input Watts (W): 194.9  
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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	97
1	110	106	103	100	107	104	101	98	99	97	94	95	93	91	91	89	88	86
2	102	95	90	85	99	93	88	84	89	85	81	86	82	79	82	79	77	75
3	94	85	78	73	92	84	77	72	80	75	70	77	73	69	74	71	67	65
4	87	77	69	63	85	75	68	63	72	66	61	70	65	60	67	63	59	57
5	81	69	61	55	78	68	60	55	65	59	54	63	58	53	61	56	52	50
6	75	63	55	49	73	62	54	48	59	53	48	58	52	47	56	51	47	45
7	69	57	49	43	68	56	48	43	54	48	43	53	47	42	51	46	42	40
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	42	37	36
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	43	38	34	32
10	57	44	37	32	55	44	36	32	42	36	31	41	35	31	40	35	31	29

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	55963
5°	52864
10°	51049
15°	50262
20°	49212
25°	48193
30°	45017
35°	39824
40°	35491
45°	33439
50°	30893
55°	19176
60°	8372
65°	4057
70°	2310
75°	1504
80°	1181
85°	1020

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 33439 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1149.2	3.7
10°-20°	3536.8	11.3
20°-30°	5799.9	18.6
30°-40°	6726.5	21.5
40°-50°	6893.9	22.1
50°-60°	4477.8	14.3
60°-70°	1076.6	3.4
70°-80°	363.8	1.2
80°-90°	206.2	0.7
90°-100°	153.4	0.5
100°-110°	176.1	0.6
110°-120°	325.1	1.0
120°-130°	176.5	0.6
130°-140°	60.1	0.2
140°-150°	54.7	0.2
150°-160°	52.3	0.2
160°-170°	21.7	0.1
170°-180°	4.4	0.0
0°-30°	10485.9	33.5
0°-40°	17212.4	55.1
0°-60°	28584.2	91.5
0°-90°	30230.8	96.7
90°-120°	654.7	2.1
90°-150°	946.0	3.0
90°-180°	1024.0	3.3
0°-180°	31255.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	11917	
5°	11976	###
15°	12489	3537
25°	12668	5800
35°	10723	6727
45°	8944	6894
55°	4939	4478
65°	973	1077
75°	323	364
85°	187	163
90°	147	83
95°	137	114
105°	156	176
115°	392	325
125°	193	176
135°	69	60
145°	88	55
155°	116	52
165°	74	22
175°	44	4
180°	44	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	11917
2.5°	11922
5°	11976
7.5°	12055
10°	12171
12.5°	12342
15°	12489
17.5°	12581
20°	12630
22.5°	12659
25°	12668
27.5°	12523
30°	12023
32.5°	11382
35°	10723
37.5°	10127
40°	9561
42.5°	9175
45°	8944
47.5°	8704
50°	8141
52.5°	6814
55°	4939
57.5°	3341
60°	2090
62.5°	1387
65°	973
67.5°	708
70°	527
72.5°	403
75°	323
77.5°	272
80°	236
82.5°	208
85°	187
87.5°	170
90°	147
92.5°	140
95°	137
97.5°	139
100°	146
102.5°	151
105°	156
107.5°	176
110°	222



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	307
115°	392
117.5°	361
120°	282
122.5°	234
125°	193
127.5°	154
130°	117
132.5°	88
135°	69
137.5°	61
140°	62
142.5°	72
145°	88
147.5°	104
150°	116
152.5°	119
155°	116
157.5°	108
160°	98
162.5°	86
165°	74
167.5°	62
170°	51
172.5°	46
175°	44
177.5°	44
180°	44

(END OF REPORT)