

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: P735779

Luminaire Tested: PRLX-UHBS-2436-MV-L84050-CLER(4000K\_L36\_277V)

Issue Date: 1/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P735779  
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: PrentaLux  
Catalog Number: PRLX-UHBS-2436-MV-L84050-CLER(4000K\_L36\_277V)  
Description: PRENTALUX LARGE HIGH BAY LUMINAIRE WITH CLEAR SHADE  
LIGHT LEVEL 3 - 36,0000 NOMINAL LUMENS  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

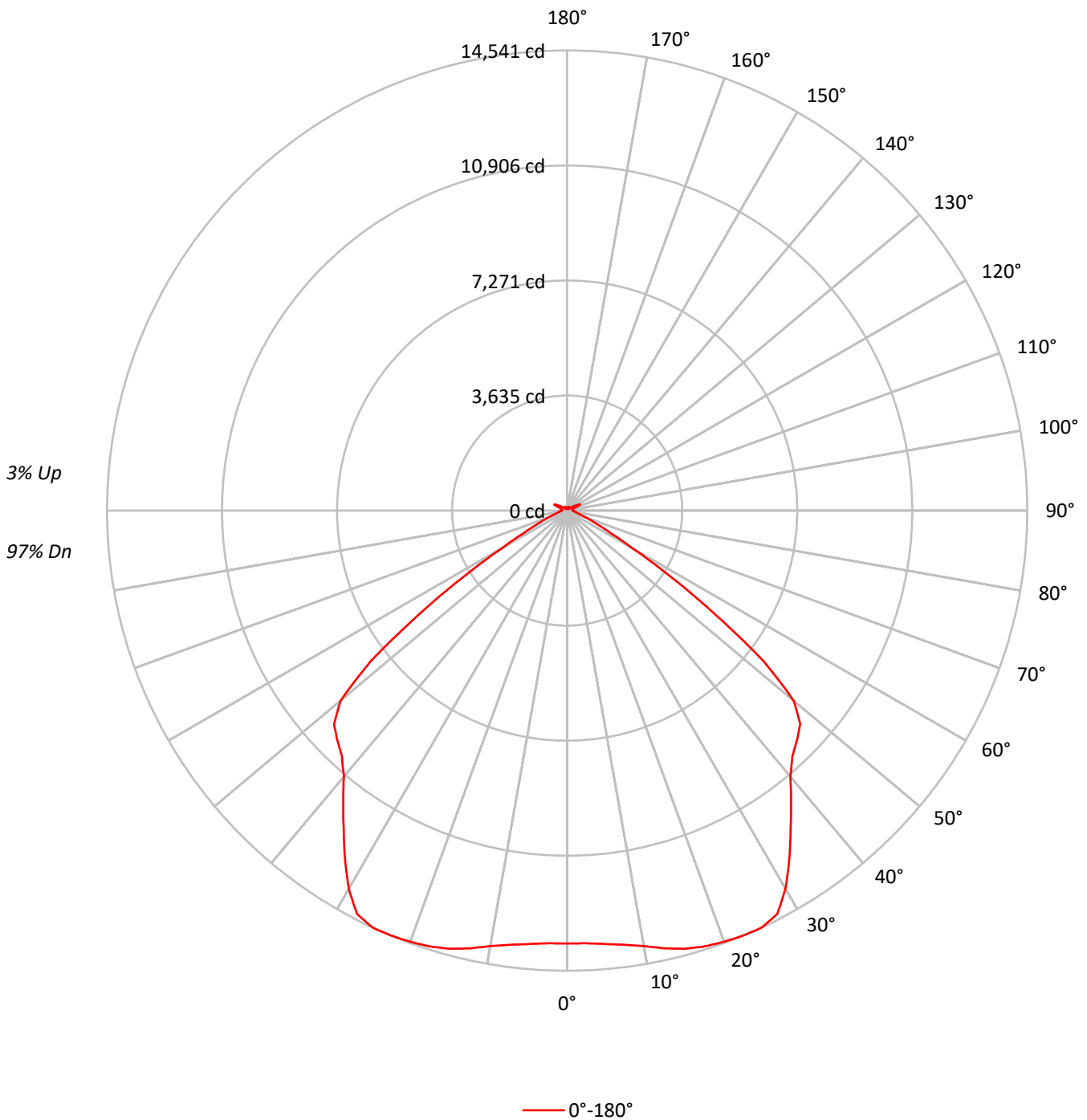
Lumens per Lamp: N/A  
Luminaire Lumens: 35876.9 lumens  
Efficiency: N/A  
Efficacy: 155.4 lumens/watt  
Spacing Criteria (0/90/45): 1.39 / 1.39 / 1.46  
Luminous Opening: Vertical Cylinder (Dia: 1.71' x H: 1.04')  
CIE Type: Direct

Input Watts (W): 230.9  
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	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°	64238
5°	60681
10°	58598
15°	57694
20°	56489
25°	55319
30°	51674
35°	45713
40°	40739
45°	38383
50°	35461
55°	22011
60°	9610
65°	4657
70°	2651
75°	1726
80°	1356
85°	1172

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 38383 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1319.2	3.7
10°-20°	4059.8	11.3
20°-30°	6657.5	18.6
30°-40°	7721.2	21.5
40°-50°	7913.3	22.1
50°-60°	5139.9	14.3
60°-70°	1235.8	3.4
70°-80°	417.5	1.2
80°-90°	236.7	0.7
90°-100°	176.1	0.5
100°-110°	202.2	0.6
110°-120°	373.2	1.0
120°-130°	202.5	0.6
130°-140°	69.0	0.2
140°-150°	62.8	0.2
150°-160°	60.1	0.2
160°-170°	24.9	0.1
170°-180°	5.1	0.0
0°-30°	12036.4	33.5
0°-40°	19757.6	55.1
0°-60°	32810.8	91.5
0°-90°	34700.9	96.7
90°-120°	751.5	2.1
90°-150°	1085.9	3.0
90°-180°	1176.0	3.3
0°-180°	35876.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	13679	
5°	13747	###
15°	14336	4060
25°	14541	6657
35°	12309	7721
45°	10266	7913
55°	5669	5140
65°	1117	1236
75°	371	418
85°	215	187
90°	169	95
95°	157	131
105°	179	202
115°	450	373
125°	222	203
135°	79	69
145°	101	63
155°	133	60
165°	85	25
175°	50	5
180°	50	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	13679.1
2.5°	13684.9
5°	13746.9
7.5°	13837.5
10°	13970.7
12.5°	14167.0
15°	14335.7
17.5°	14441.3
20°	14497.6
22.5°	14530.8
25°	14541.2
27.5°	14374.7
30°	13800.8
32.5°	13065.0
35°	12308.6
37.5°	11624.4
40°	10974.8
42.5°	10531.7
45°	10266.5
47.5°	9991.0
50°	9344.8
52.5°	7821.6
55°	5669.3
57.5°	3835.0
60°	2399.0
62.5°	1592.1
65°	1116.9
67.5°	812.7
70°	604.9
72.5°	462.6
75°	370.8
77.5°	312.2
80°	270.9
82.5°	238.8
85°	214.7
87.5°	195.1
90°	168.7
92.5°	160.7
95°	157.3
97.5°	159.6
100°	167.6
102.5°	173.3
105°	179.1
107.5°	202.0
110°	254.8

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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	352.4
115°	450.0
117.5°	414.4
120°	323.7
122.5°	268.6
125°	221.5
127.5°	176.8
130°	134.3
132.5°	101.0
135°	79.2
137.5°	70.0
140°	71.2
142.5°	82.6
145°	101.0
147.5°	119.4
150°	133.2
152.5°	136.6
155°	133.2
157.5°	124.0
160°	112.5
162.5°	98.7
165°	84.9
167.5°	71.2
170°	58.5
172.5°	52.8
175°	50.5
177.5°	50.5
180°	50.5

(END OF REPORT)