

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: P735826

Luminaire Tested: PRLX-UHBS-2436-MV-L84050-TRWH(5000K\_L24\_120V)

Issue Date: 1/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P735826  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2312-243-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-UHBS-2436-MV-L84050-TRWH(5000K\_L24\_120V)  
Description: PRENTALUX LARGE HIGH BAY LUMINAIRE WITH TRANSLUCENT WHITE SHADE  
LIGHT LEVEL 1 - 24,000 NOMINAL LUMENS  
Light Source: 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

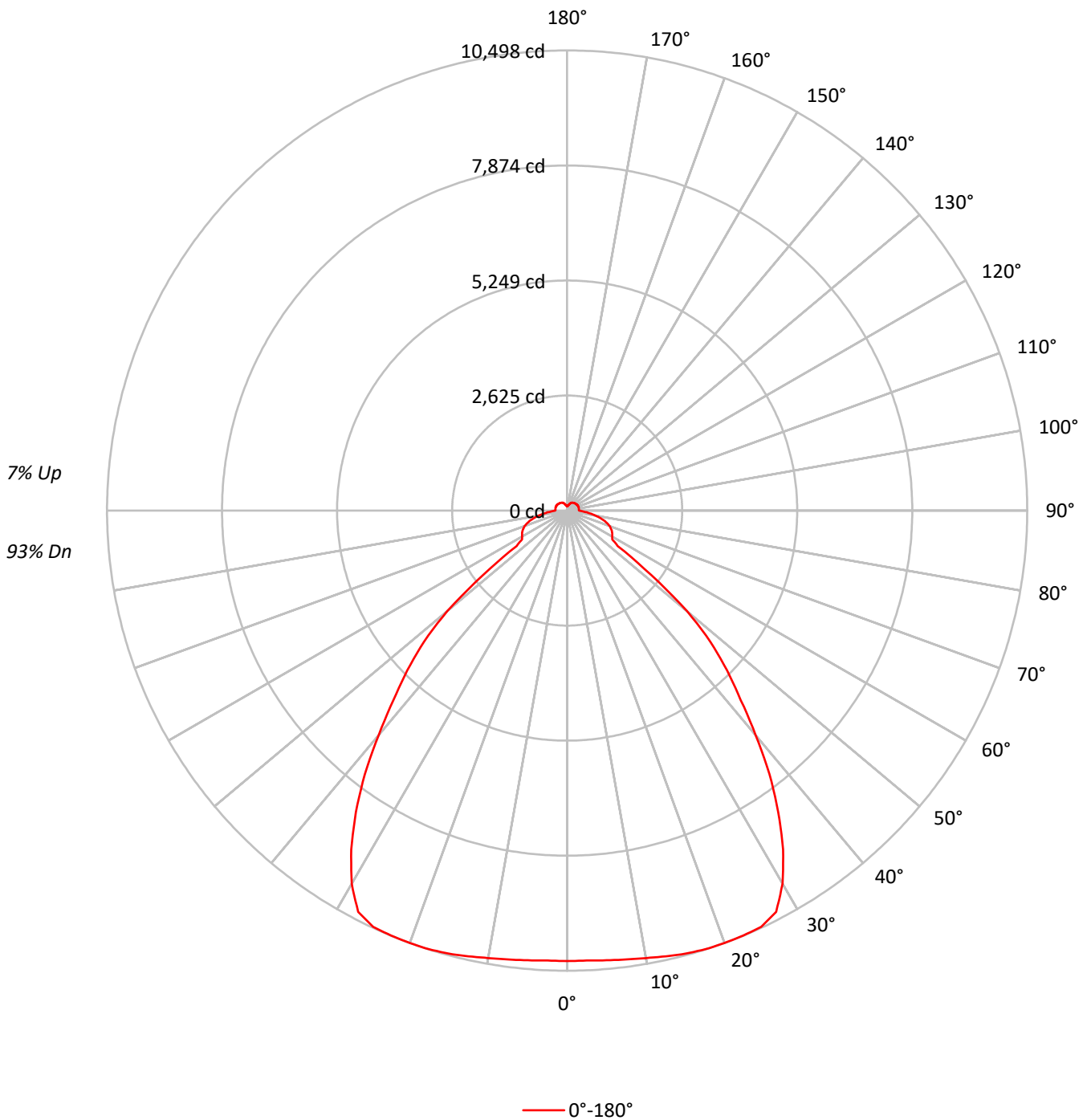
Lumens per Lamp: N/A  
Luminaire Lumens: 23583.7 lumens  
Efficiency: N/A  
Efficacy: 161.8 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.26  
Luminous Opening: Vertical Cylinder (Dia: 1.71' x H: 1.04')  
CIE Type: Direct

Input Watts (W): 145.8  
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	117	117	117	117	114	114	114	114	107	107	107	102	102	102	96	96	96	93
1	109	105	101	98	105	102	98	95	96	94	91	91	89	87	87	85	84	81
2	101	94	88	83	98	91	86	81	87	82	79	83	79	76	79	76	73	71
3	93	84	77	72	90	82	76	71	78	73	69	75	70	67	72	68	65	63
4	86	76	69	63	84	74	67	62	71	65	60	68	63	59	65	61	58	55
5	80	69	61	56	78	68	60	55	65	59	54	62	57	53	60	55	52	50
6	75	63	55	50	73	62	54	49	60	53	48	57	52	47	55	50	46	44
7	70	58	50	45	68	57	49	44	55	48	43	53	47	43	51	46	42	40
8	65	53	46	40	64	52	45	40	51	44	39	49	43	39	47	42	38	36
9	61	49	42	37	60	48	41	36	47	40	36	45	40	35	44	39	35	33
10	58	46	38	34	56	45	38	33	43	37	33	42	37	33	41	36	32	30

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

	0°
0°	48261
5°	45459
10°	43479
15°	42113
20°	40906
25°	39851
30°	36799
35°	31196
40°	24839
45°	19278
50°	13540
55°	5467
60°	4760
65°	4702
70°	4516
75°	4040
80°	3275
85°	2392

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 19278 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	985.2	4.2
10°-20°	2964.5	12.6
20°-30°	4789.6	20.3
30°-40°	5208.6	22.1
40°-50°	3953.8	16.8
50°-60°	1642.3	7.0
60°-70°	1111.5	4.7
70°-80°	906.4	3.8
80°-90°	485.9	2.1
90°-100°	293.8	1.2
100°-110°	288.4	1.2
110°-120°	266.2	1.1
120°-130°	229.3	1.0
130°-140°	184.7	0.8
140°-150°	138.1	0.6
150°-160°	86.6	0.4
160°-170°	38.7	0.2
170°-180°	10.3	0.0
0°-30°	8739.2	37.1
0°-40°	13947.8	59.1
0°-60°	19543.9	82.9
0°-90°	22047.6	93.5
90°-120°	848.4	3.6
90°-150°	1400.5	5.9
90°-180°	1536.0	6.5
0°-180°	23583.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	10277	
5°	10298	985
15°	10464	2964
25°	10475	4790
35°	8400	5209
45°	5156	3954
55°	1408	1642
65°	1128	1111
75°	868	906
85°	438	403
90°	271	157
95°	269	220
105°	273	288
115°	269	266
125°	256	229
135°	238	185
145°	219	138
155°	186	87
165°	133	39
175°	106	10
180°	101	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	10276.8
2.5°	10275.2
5°	10298.3
7.5°	10328.6
10°	10366.0
12.5°	10414.6
15°	10464.0
17.5°	10491.9
20°	10498.3
22.5°	10492.7
25°	10475.2
27.5°	10322.2
30°	9828.1
32.5°	9169.8
35°	8399.9
37.5°	7581.5
40°	6691.3
42.5°	5864.8
45°	5156.3
47.5°	4435.1
50°	3568.0
52.5°	2409.2
55°	1408.2
57.5°	1218.5
60°	1188.3
62.5°	1161.2
65°	1127.7
67.5°	1084.7
70°	1030.5
72.5°	957.9
75°	867.9
77.5°	764.3
80°	654.3
82.5°	545.9
85°	438.3
87.5°	336.3
90°	271.0
92.5°	266.2
95°	268.6
97.5°	271.0
100°	271.8
102.5°	272.6
105°	273.4
107.5°	272.6
110°	271.8

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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	270.2
115°	268.6
117.5°	266.2
120°	263.0
122.5°	259.8
125°	255.8
127.5°	251.0
130°	247.1
132.5°	243.1
135°	238.3
137.5°	233.5
140°	229.5
142.5°	224.7
145°	219.2
147.5°	214.4
150°	209.6
152.5°	199.2
155°	186.5
157.5°	172.1
160°	158.6
162.5°	145.0
165°	133.1
167.5°	122.7
170°	112.4
172.5°	110.0
175°	106.0
177.5°	102.8
180°	101.2

(END OF REPORT)