

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: G2-2210-802-7

Luminaire Tested: PRLX-413-FIL-120-CL-RHL-TFWHST-DW-WH

Test Date: 1/9/2023



**Test Information**

Test Method: LM-79-2019  
Report Number: G2-2210-802-7  
Test Lab: COOPER LIGHTING SOLUTIONS  
Test Date: 1/9/2023  
Issue Date: 1/9/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-413-FIL-120-CL-RHL-TFWHST-DW-WH  
Description: 400-SERIES 3D PRINTED LED LAMP BASED DECORATIVE LUMINAIRE, CLEAR (TRANSLUCENT) SHADE, FILAMENT LAMP  
Light Source: 1 PHILIPS 60W CLEAR BULB  
FILAMENT BULB - 60W EQUIVALENT 929001969604  
8A19/PER/927-922/CL/G/E26/WGX 1FB T20. PHILIPS  
Ballast/Driver: INTEGRAL TO LAMP

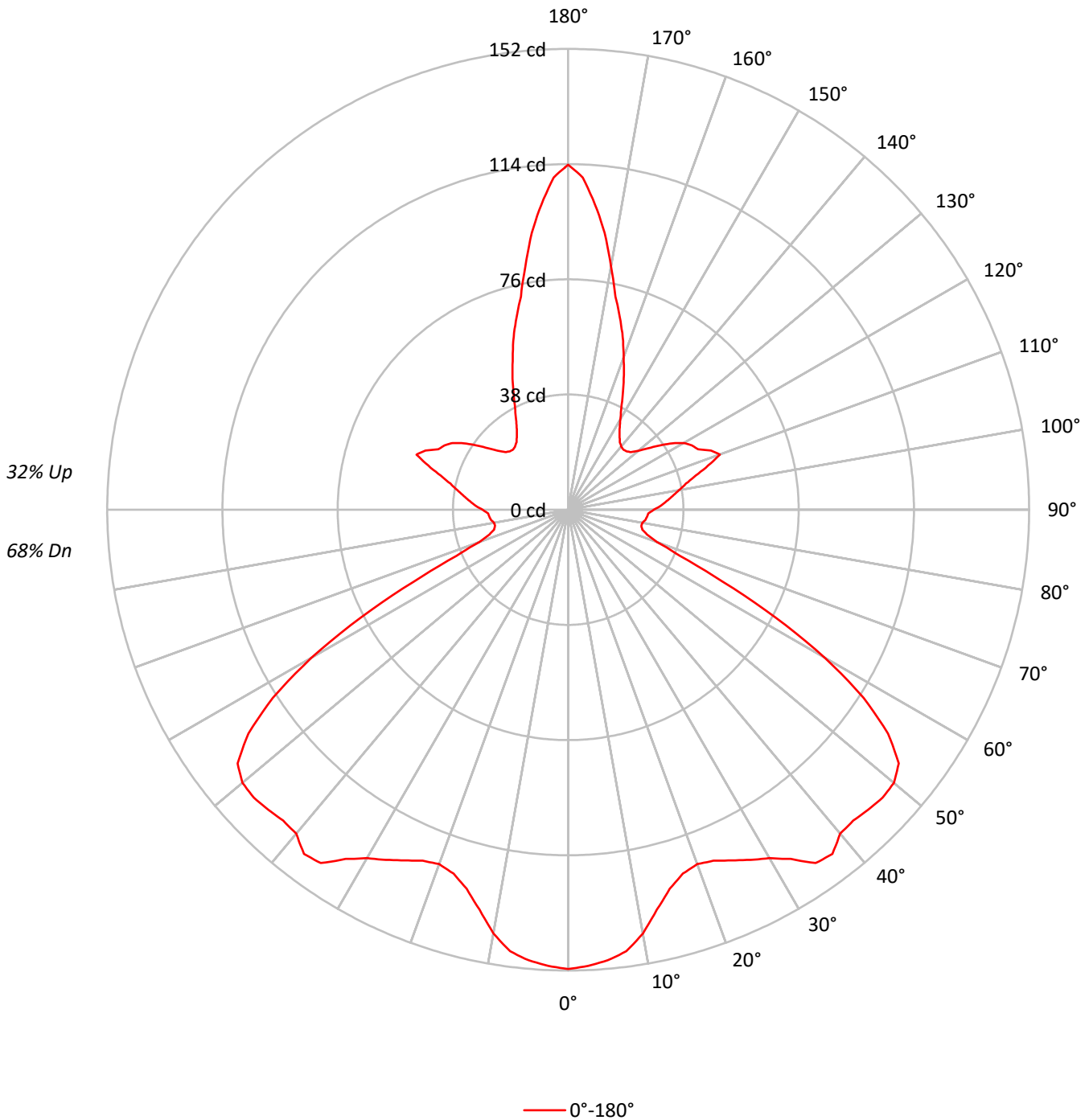
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 784.0 lumens  
Efficiency: N/A  
Efficacy: 100.5 lumens/watt  
Spacing Criteria (0/90/45): 1.45 / 1.45 / 1.67  
Luminous Opening: Vertical Cylinder (Dia: 1.58' x H: 1')  
CIE Type: Semi-Direct

Input Watts (W): 7.8  
Input Voltage (V): 120.0  
Input Current (Ain): 0.0794  
Voltage Rise (V): NR  
Power Factor: 0.8152  
Total Harmonic Distortion (THDi): 70.6%  
Frequency (hertz): 60  
Stabilization Time: 0.333 HR  
Operation Time: 3 HR  
Ambient Temperature (°C): 25.5  
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	111	111	111	111	105	105	105	105	93	93	93		83	83	83		73	73	73	68
1	101	96	91	87	95	90	87	83	80	77	75		71	69	67		63	61	59	55
2	91	83	76	71	86	79	73	67	70	65	61		62	58	55		54	52	49	45
3	83	73	65	58	78	69	61	56	61	55	51		54	50	46		48	44	41	38
4	76	64	55	49	71	60	53	47	54	48	43		48	43	39		42	38	35	32
5	69	56	48	41	65	53	45	39	48	41	36		42	37	33		38	33	30	27
6	63	50	42	35	59	48	40	34	43	36	31		38	33	28		34	29	26	23
7	58	45	37	31	55	43	35	29	38	32	27		34	29	25		30	26	22	20
8	54	41	33	27	51	39	31	26	35	28	24		31	26	22		28	23	20	18
9	50	37	29	24	47	35	28	23	32	26	21		29	23	19		25	21	18	16
10	47	34	26	21	44	32	25	20	29	23	19		26	21	17		23	19	16	14

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

	0°
0°	828
5°	765
10°	690
15°	603
20°	560
25°	560
30°	572
35°	608
40°	594
45°	600
50°	609
55°	571
60°	447
65°	267
70°	155
75°	134
80°	140
85°	161

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 50°  
 Luminance: 609 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	14.0	1.8
10°-20°	36.8	4.7
20°-30°	59.3	7.6
30°-40°	87.8	11.2
40°-50°	108.3	13.8
50°-60°	111.9	14.3
60°-70°	58.5	7.5
70°-80°	27.8	3.5
80°-90°	28.6	3.6
90°-100°	35.6	4.5
100°-110°	46.7	6.0
110°-120°	47.9	6.1
120°-130°	33.4	4.3
130°-140°	21.5	2.7
140°-150°	18.7	2.4
150°-160°	19.7	2.5
160°-170°	18.4	2.3
170°-180°	9.1	1.2
0°-30°	110.2	14.1
0°-40°	198.0	25.2
0°-60°	418.2	53.3
0°-90°	533.1	68.0
90°-120°	130.2	16.6
90°-150°	203.8	26.0
90°-180°	251.0	32.0
0°-180°	784.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	152	
5°	149	14
15°	129	37
25°	128	59
35°	142	88
45°	140	108
55°	129	112
65°	56	59
75°	25	28
85°	26	21
90°	28	16
95°	33	28
105°	44	47
115°	47	48
125°	37	33
135°	27	22
145°	30	19
155°	43	20
165°	66	18
175°	101	9
180°	114	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	151.5
2.5°	150.6
5°	149.2
7.5°	146.9
10°	141.9
12.5°	135.1
15°	129.4
17.5°	125.8
20°	124.4
22.5°	125.3
25°	127.6
27.5°	130.2
30°	132.7
32.5°	136.6
35°	142.3
37.5°	143.1
40°	139.5
42.5°	139.1
45°	139.9
47.5°	140.6
50°	140.2
52.5°	137.4
55°	128.7
57.5°	115.5
60°	97.8
62.5°	77.1
65°	56.2
67.5°	39.8
70°	31.2
72.5°	27.2
75°	25.3
77.5°	24.7
80°	24.8
82.5°	25.7
85°	26.1
87.5°	26.5
90°	28.2
92.5°	30.6
95°	32.6
97.5°	34.7
100°	37.1
102.5°	39.8
105°	43.5
107.5°	48.4
110°	53.2



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	50.9
115°	47.2
117.5°	46.0
120°	44.0
122.5°	40.8
125°	37.0
127.5°	33.3
130°	30.2
132.5°	28.1
135°	27.2
137.5°	26.9
140°	27.2
142.5°	28.0
145°	29.5
147.5°	31.5
150°	34.3
152.5°	37.9
155°	42.6
157.5°	48.0
160°	53.4
162.5°	59.8
165°	65.7
167.5°	72.0
170°	81.4
172.5°	92.1
175°	101.1
177.5°	109.7
180°	113.8

(END OF REPORT)