

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: G2-2210-802-10

Luminaire Tested: PRLX-401-FR-120-CL-RHL-TFWHST-DW-WH

Test Date: 12/07/22



**Test Information**

Test Method: LM-79-2019  
Report Number: G2-2210-802-10  
Test Lab: COOPER LIGHTING SOLUTIONS  
Test Date: 12/07/22  
Issue Date: 12/07/22  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-401-FR-120-CL-RHL-TFWHST-DW-WH  
Description: 400-SERIES 3D PRINTED LED LAMP BASED DECORATIVE LUMINAIRE, CLEAR (TRANSLUCENT) SHADE, FROSTED LAMP  
Light Source: 1 PHILIPS 60W FROSTED LAMP  
FROSTED BULB - 60W EQUIVALENT 929002036204 8.8A19/PER/930/P/E26/DIM  
6/1FB T20. PHILIPS  
Ballast/Driver: INTEGRAL TO LAMP  
1 PHILIPS 60W FROSTED LAMP

**Summary**

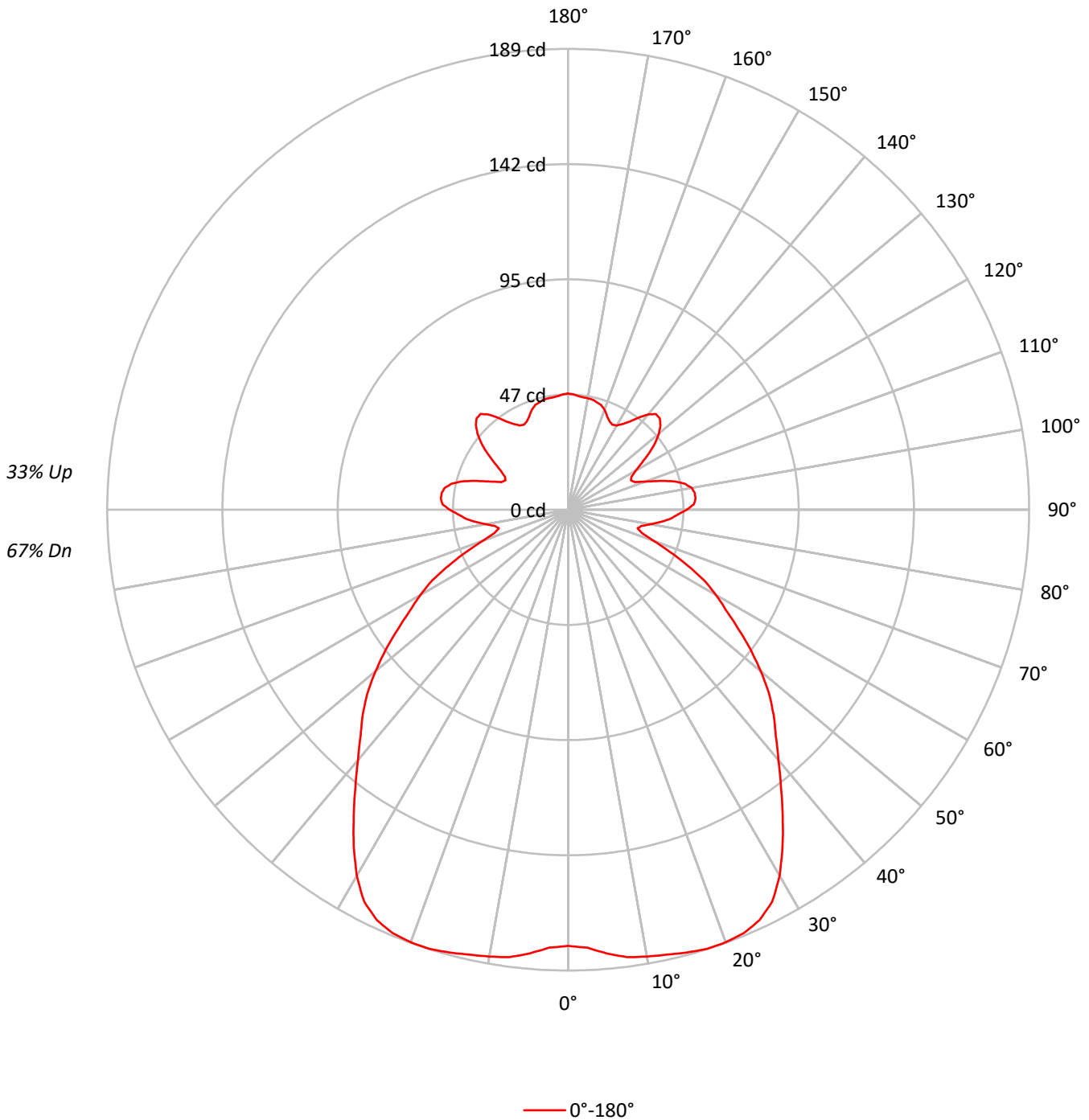
Lumens per Lamp: N/A  
Luminaire Lumens: 825.4 lumens  
Efficiency: N/A  
Efficacy: 110.1 lumens/watt  
Spacing Criteria (0/90/45): 1.35 / 1.35 / 1.37  
Luminous Opening: Vertical Cylinder (Dia: 0.67' x H: 0.92')  
CIE Type: Semi-Direct

Input Watts (W): 7.5  
Input Voltage (V): 120.0  
Input Current (A<sub>in</sub>): 0.0673  
Voltage Rise (V): NR  
Power Factor: 0.9481  
Total Harmonic Distortion (THDi): 24.9%  
Frequency (hertz): 60  
Stabilization Time: 0.333 HR  
Operation Time: 3 HR  
Ambient Temperature (°C): 24.9  
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	82	82	82	72	72	72	67
1	100	95	90	86	94	90	86	82	79	76	73	70	67	65	61	59	58	53
2	91	83	76	70	85	78	72	67	69	65	61	61	58	54	54	51	48	45
3	83	73	65	59	78	69	62	56	61	56	51	54	50	46	48	44	41	38
4	76	65	56	50	71	61	54	48	55	48	44	48	44	40	43	39	36	33
5	70	58	49	43	66	55	47	41	49	43	38	44	38	34	39	34	31	28
6	65	52	44	37	61	49	42	36	44	38	33	40	34	30	35	31	28	25
7	60	47	39	33	56	45	37	32	40	34	29	36	31	27	32	28	25	22
8	56	43	35	29	52	41	33	28	37	31	26	33	28	24	30	25	22	20
9	52	39	31	26	49	37	30	25	34	28	23	30	25	22	27	23	20	18
10	49	36	29	24	46	34	27	23	31	25	21	28	23	20	25	21	18	16

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

	0°
0°	5517
5°	4904
10°	4453
15°	4085
20°	3784
25°	3479
30°	3069
35°	2593
40°	2186
45°	1888
50°	1603
55°	1307
60°	1071
65°	827
70°	576
75°	465
80°	556
85°	709

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1888 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	17.6	2.1
10°-20°	53.3	6.5
20°-30°	85.0	10.3
30°-40°	95.9	11.6
40°-50°	91.7	11.1
50°-60°	76.5	9.3
60°-70°	53.2	6.4
70°-80°	33.7	4.1
80°-90°	45.5	5.5
90°-100°	56.3	6.8
100°-110°	46.5	5.6
110°-120°	29.8	3.6
120°-130°	36.1	4.4
130°-140°	40.1	4.9
140°-150°	28.2	3.4
150°-160°	18.8	2.3
160°-170°	12.8	1.6
170°-180°	4.5	0.5
0°-30°	155.8	18.9
0°-40°	251.7	30.5
0°-60°	420.0	50.9
0°-90°	552.4	66.9
90°-120°	132.5	16.1
90°-150°	236.9	28.7
90°-180°	273.0	33.1
0°-180°	825.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	179	
5°	183	18
15°	188	53
25°	186	85
35°	153	96
45°	119	92
55°	85	77
65°	54	53
75°	29	34
85°	42	33
90°	49	27
95°	52	43
105°	45	47
115°	28	30
125°	40	36
135°	53	40
145°	44	28
155°	40	19
165°	46	13
175°	47	4
180°	48	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	178.9
2.5°	179.8
5°	182.7
7.5°	185.1
10°	186.1
12.5°	186.9
15°	188.0
17.5°	188.9
20°	188.8
22.5°	188.0
25°	185.7
27.5°	181.2
30°	173.3
32.5°	163.6
35°	153.3
37.5°	143.3
40°	134.1
42.5°	126.0
45°	119.1
47.5°	111.7
50°	103.1
52.5°	94.2
55°	85.1
57.5°	76.7
60°	70.0
62.5°	62.9
65°	53.9
67.5°	45.0
70°	37.1
72.5°	31.6
75°	29.4
77.5°	30.7
80°	34.2
82.5°	38.4
85°	42.1
87.5°	45.0
90°	48.6
92.5°	51.6
95°	52.4
97.5°	52.3
100°	51.4
102.5°	49.0
105°	44.9
107.5°	39.2
110°	33.5



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	29.6
115°	28.4
117.5°	29.2
120°	31.9
122.5°	35.8
125°	40.5
127.5°	44.9
130°	48.5
132.5°	51.3
135°	53.1
137.5°	53.2
140°	51.0
142.5°	47.6
145°	44.2
147.5°	41.6
150°	39.9
152.5°	39.3
155°	40.0
157.5°	41.6
160°	43.6
162.5°	45.0
165°	45.6
167.5°	46.2
170°	46.4
172.5°	46.5
175°	46.8
177.5°	47.4
180°	47.6

(END OF REPORT)