

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: G2-2210-802-17

Luminaire Tested: PRLX-415-FR-120-CL-RHL-TFWHST-DW-WH

Test Date: 1/12/2023



**Test Information**

Test Method: LM-79-2019  
Report Number: G2-2210-802-17  
Test Lab: COOPER LIGHTING SOLUTIONS  
Test Date: 1/12/2023  
Issue Date: 1/12/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-415-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 BULB  
FROSTED BULB - 60W EQUIVALENT 929002036204 8.8A19/PER/930/P/E26/DIM  
6/1FB T20. PHILIPS  
Ballast/Driver: INTEGRAL TO LAMP

**Summary**

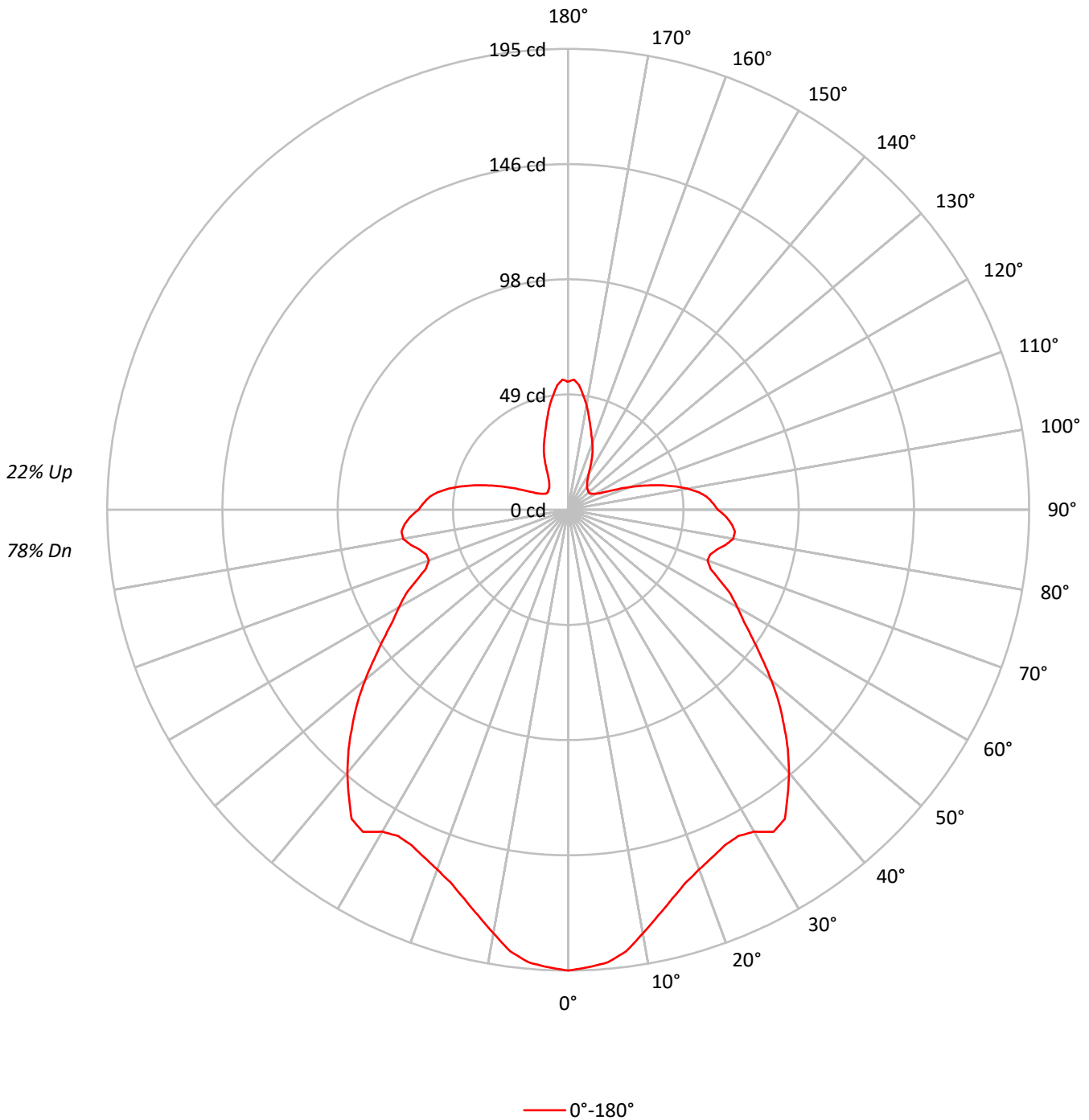
Lumens per Lamp: N/A  
Luminaire Lumens: 817.5 lumens  
Efficiency: N/A  
Efficacy: 103.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Vertical Cylinder (Dia: 1.58' x H: 0.83')  
CIE Type: Semi-Direct

Input Watts (W): 7.9  
Input Voltage (V): 120.0  
Input Current (A<sub>in</sub>): 0.0687  
Voltage Rise (V): NR  
Power Factor: 0.9528  
Total Harmonic Distortion (THDi): 23.6%  
Frequency (hertz): 60  
Stabilization Time: 0.333 HR  
Operation Time: 3 HR  
Ambient Temperature (°C): 24.7  
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	114	114	114	114	109	109	109	109	99	99	99		90	90	90		82	82	82	78
1	100	94	89	84	95	90	85	81	82	78	74		74	71	68		67	64	62	58
2	91	81	73	67	86	77	70	64	70	64	59		63	59	55		57	54	50	47
3	82	71	62	55	78	67	59	53	61	55	49		56	50	45		50	46	42	39
4	75	62	53	46	71	60	51	44	54	47	41		49	43	39		45	40	36	33
5	69	56	46	39	65	53	44	38	48	41	36		44	38	33		40	35	31	28
6	63	50	41	34	60	48	39	33	44	36	31		40	34	29		36	31	27	25
7	59	45	36	30	56	43	35	29	40	32	27		36	30	26		33	28	24	22
8	55	41	32	26	52	39	31	26	36	29	24		33	27	23		30	25	21	19
9	51	37	29	24	48	36	28	23	33	26	22		31	25	20		28	23	19	17
10	48	34	27	21	45	33	26	21	31	24	20		28	23	19		26	21	17	16

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

	0°
0°	1066
5°	997
10°	904
15°	817
20°	758
25°	720
30°	716
35°	725
40°	664
45°	598
50°	530
55°	464
60°	418
65°	375
70°	353
75°	393
80°	465
85°	503

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 598 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	18.0	2.2
10°-20°	48.1	5.9
20°-30°	73.0	8.9
30°-40°	98.0	12.0
40°-50°	99.6	12.2
50°-60°	85.9	10.5
60°-70°	70.8	8.7
70°-80°	69.6	8.5
80°-90°	74.8	9.2
90°-100°	63.8	7.8
100°-110°	42.2	5.2
110°-120°	19.1	2.3
120°-130°	10.8	1.3
130°-140°	9.1	1.1
140°-150°	8.9	1.1
150°-160°	10.7	1.3
160°-170°	10.2	1.2
170°-180°	4.8	0.6
0°-30°	139.1	17.0
0°-40°	237.1	29.0
0°-60°	422.6	51.7
0°-90°	637.9	78.0
90°-120°	125.0	15.3
90°-150°	153.9	18.8
90°-180°	180.0	22.0
0°-180°	817.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	195	
5°	192	18
15°	170	48
25°	157	73
35°	160	98
45°	129	100
55°	95	86
65°	71	71
75°	65	70
85°	69	57
90°	63	35
95°	59	47
105°	40	42
115°	18	19
125°	12	11
135°	12	9
145°	14	9
155°	24	11
165°	36	10
175°	53	5
180°	54	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	195.0
2.5°	193.8
5°	192.3
7.5°	188.4
10°	182.0
12.5°	175.9
15°	170.3
17.5°	165.4
20°	162.0
22.5°	159.2
25°	156.7
27.5°	155.7
30°	157.3
32.5°	161.6
35°	159.7
37.5°	152.5
40°	145.3
42.5°	137.5
45°	129.1
47.5°	120.9
50°	112.1
52.5°	103.3
55°	95.2
57.5°	88.1
60°	82.6
62.5°	77.5
65°	70.7
67.5°	65.1
70°	62.7
72.5°	63.0
75°	65.1
77.5°	68.3
80°	70.9
82.5°	71.1
85°	69.4
87.5°	66.8
90°	63.3
92.5°	61.3
95°	59.2
97.5°	55.9
100°	51.3
102.5°	45.8
105°	39.9
107.5°	33.9
110°	28.1



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	22.6
115°	17.9
117.5°	15.1
120°	13.5
122.5°	12.5
125°	11.8
127.5°	11.4
130°	11.4
132.5°	11.5
135°	11.8
137.5°	12.0
140°	12.4
142.5°	13.1
145°	14.0
147.5°	15.3
150°	17.2
152.5°	20.1
155°	23.6
157.5°	26.9
160°	29.9
162.5°	32.8
165°	36.2
167.5°	40.4
170°	44.9
172.5°	48.7
175°	52.9
177.5°	55.1
180°	54.2

(END OF REPORT)