

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: G2-2210-802-9

Luminaire Tested: PRLX-417-FIL-120-CL-RHL-TFWHST-DW-WH

Test Date: 1/12/2023



**Test Information**

Test Method: LM-79-2019  
Report Number: G2-2210-802-9  
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-417-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**

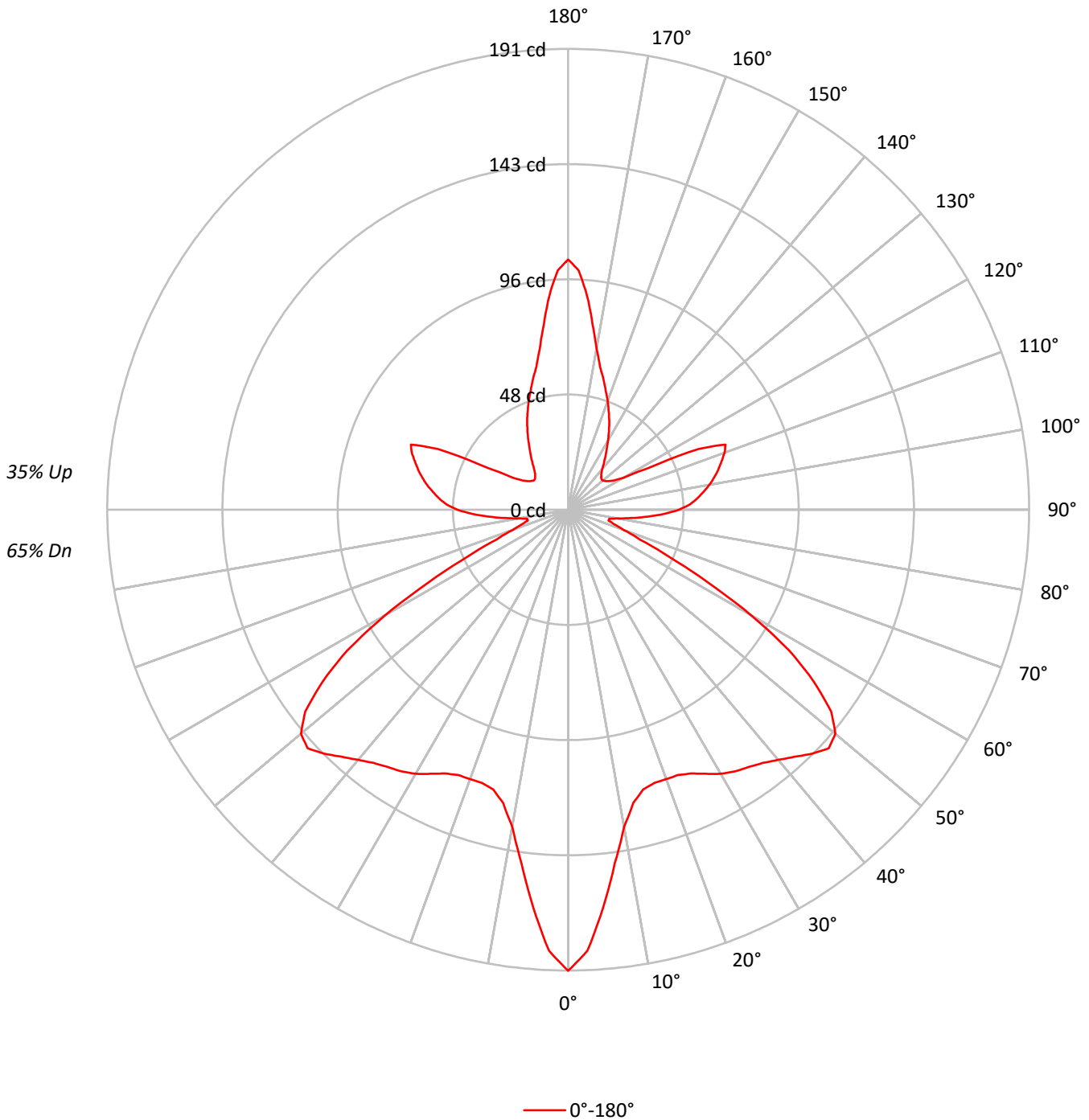
Lumens per Lamp: N/A  
Luminaire Lumens: 785.1 lumens  
Efficiency: N/A  
Efficacy: 100.7 lumens/watt  
Spacing Criteria (0/90/45): 0.79 / 0.79 / 1.48  
Luminous Opening: Vertical Cylinder (Dia: 1.58' x H: 0.83')  
CIE Type: Semi-Direct

Input Watts (W): 7.8  
Input Voltage (V): 120.0  
Input Current (A<sub>in</sub>): 0.0795  
Voltage Rise (V): NR  
Power Factor: 0.8149  
Total Harmonic Distortion (THDi): 70.7%  
Frequency (hertz): 60  
Stabilization Time: 0.333 HR  
Operation Time: 3 HR  
Ambient Temperature (°C): 24.8  
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	104	104	104	104	92	92	92	80	80	80	70	70	70	65
1	100	95	91	87	94	89	85	82	79	76	73	69	67	65	60	58	57	52
2	91	83	76	70	85	78	72	67	69	64	60	60	57	53	52	50	47	43
3	83	72	64	58	77	68	61	55	60	55	50	53	48	45	46	43	40	36
4	75	64	55	48	70	60	52	46	53	47	42	47	42	38	41	37	34	30
5	69	56	48	41	64	53	45	39	47	41	36	42	36	32	36	32	29	26
6	63	50	42	35	59	47	40	34	42	36	31	37	32	28	33	28	25	22
7	58	45	37	31	54	43	35	29	38	31	27	34	28	24	29	25	22	19
8	54	41	32	27	50	39	31	26	34	28	24	31	25	21	27	22	19	17
9	50	37	29	24	47	35	28	23	31	25	21	28	23	19	25	20	17	15
10	47	34	26	21	44	32	25	20	29	23	19	26	21	17	23	18	15	13

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

	0°
0°	1045
5°	858
10°	662
15°	576
20°	556
25°	554
30°	575
35°	591
40°	618
45°	662
50°	683
55°	605
60°	444
65°	244
70°	138
75°	104
80°	136
85°	239

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 47.5°  
 Luminance: 684 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	14.8	1.9
10°-20°	34.5	4.4
20°-30°	56.3	7.2
30°-40°	82.1	10.5
40°-50°	110.1	14.0
50°-60°	108.6	13.8
60°-70°	49.0	6.2
70°-80°	20.4	2.6
80°-90°	36.2	4.6
90°-100°	58.2	7.4
100°-110°	68.0	8.7
110°-120°	53.8	6.8
120°-130°	19.2	2.4
130°-140°	15.2	1.9
140°-150°	16.8	2.1
150°-160°	18.4	2.3
160°-170°	15.8	2.0
170°-180°	7.8	1.0
0°-30°	105.6	13.4
0°-40°	187.6	23.9
0°-60°	406.3	51.8
0°-90°	512.0	65.2
90°-120°	179.9	22.9
90°-150°	231.1	29.4
90°-180°	273.0	34.8
0°-180°	785.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	191	
5°	166	15
15°	120	34
25°	121	56
35°	130	82
45°	143	110
55°	124	109
65°	46	49
75°	17	20
85°	33	24
90°	46	25
95°	54	45
105°	64	68
115°	60	54
125°	21	19
135°	19	15
145°	27	17
155°	40	18
165°	56	16
175°	89	8
180°	104	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	191.1
2.5°	183.0
5°	165.6
7.5°	147.9
10°	133.4
12.5°	124.5
15°	120.0
17.5°	118.7
20°	118.8
22.5°	119.0
25°	120.6
27.5°	123.4
30°	126.4
32.5°	128.6
35°	130.2
37.5°	132.3
40°	135.3
42.5°	138.9
45°	143.0
47.5°	146.4
50°	144.5
52.5°	137.3
55°	124.3
57.5°	108.5
60°	87.8
62.5°	65.0
65°	45.9
67.5°	32.2
70°	24.5
72.5°	19.9
75°	17.3
77.5°	17.4
80°	20.7
82.5°	26.3
85°	33.0
87.5°	39.9
90°	45.9
92.5°	50.5
95°	53.7
97.5°	56.5
100°	59.4
102.5°	62.0
105°	64.4
107.5°	66.6
110°	68.9



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	70.6
115°	59.6
117.5°	37.5
120°	26.4
122.5°	22.6
125°	20.6
127.5°	19.5
130°	18.8
132.5°	18.7
135°	19.3
137.5°	20.3
140°	21.9
142.5°	24.2
145°	26.8
147.5°	29.6
150°	32.9
152.5°	36.5
155°	40.2
157.5°	43.9
160°	47.8
162.5°	51.7
165°	56.2
167.5°	60.7
170°	67.7
172.5°	77.4
175°	89.2
177.5°	99.3
180°	103.7

(END OF REPORT)