

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: G2-2210-802-18

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

Test Date: 1/12/2023



**Test Information**

Test Method: LM-79-2019  
Report Number: G2-2210-802-18  
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-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**

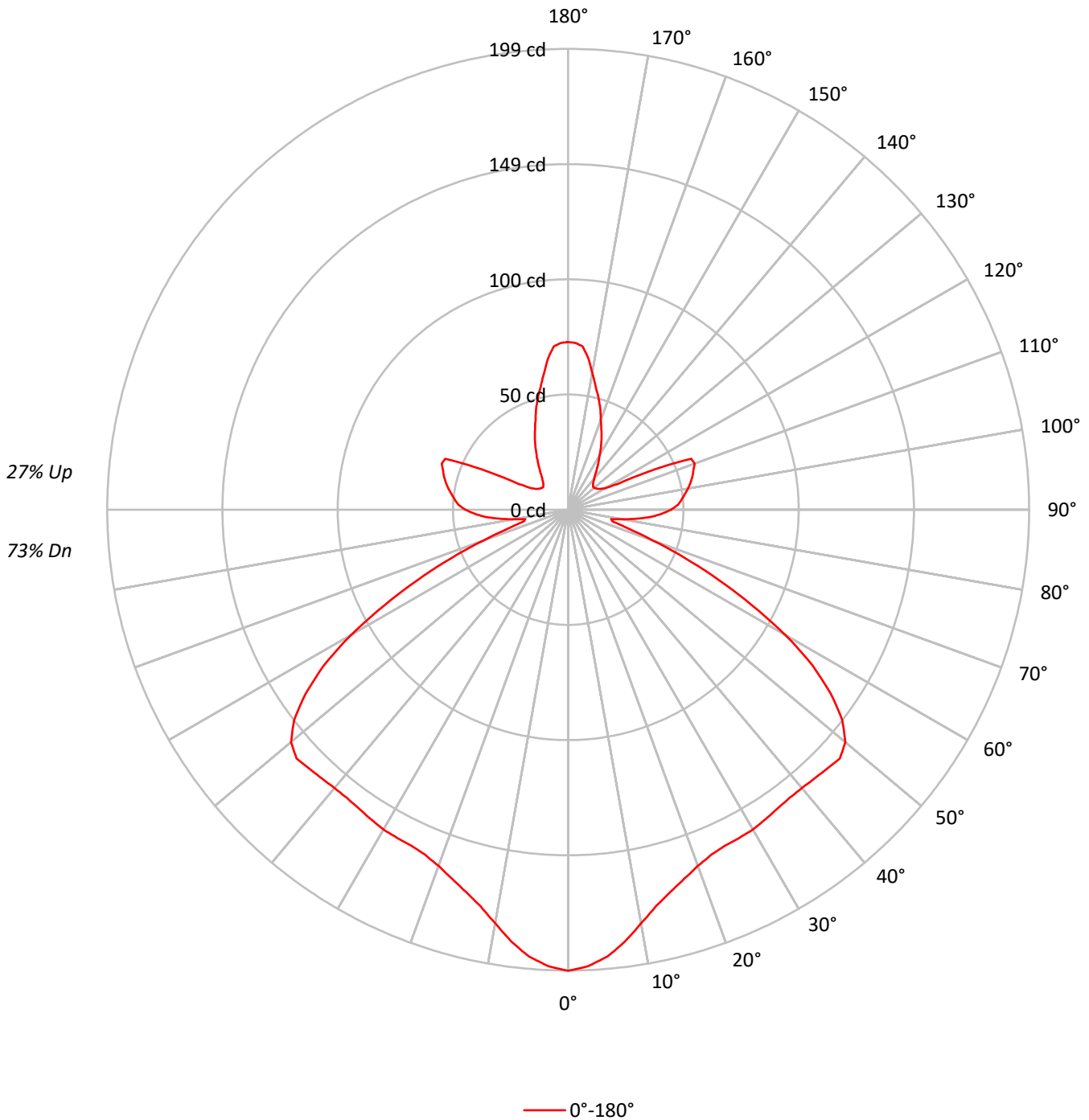
Lumens per Lamp: N/A  
Luminaire Lumens: 847.3 lumens  
Efficiency: N/A  
Efficacy: 107.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.53  
Luminous Opening: Vertical Cylinder (Dia: 1.58' x H: 0.83')  
CIE Type: Semi-Direct

Input Watts (W): 7.9  
Input Voltage (V): 120.0  
Input Current (A<sub>in</sub>): 0.0687  
Voltage Rise (V): NR  
Power Factor: 0.953  
Total Harmonic Distortion (THDi): 23.4%  
Frequency (hertz): 60  
Stabilization Time: 0.333 HR  
Operation Time: 3 HR  
Ambient Temperature (°C): 25.0  
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	113	113	113	113	107	107	107	107	96	96	96		86	86	86		77	77	77	73
1	102	97	92	88	96	92	88	84	83	80	77		74	72	70		67	65	63	59
2	92	84	77	72	87	80	74	69	72	67	63		65	61	58		58	55	53	49
3	84	74	66	59	79	70	63	57	63	57	52		57	52	48		51	47	44	41
4	77	65	56	50	72	62	54	48	56	49	44		50	45	41		45	41	38	35
5	70	58	49	42	66	55	47	41	50	43	38		45	39	35		40	36	32	29
6	65	51	43	36	61	49	41	35	45	38	33		40	35	30		36	32	28	25
7	60	46	38	32	56	44	36	31	40	33	29		37	31	27		33	28	25	22
8	55	42	34	28	52	40	32	27	37	30	25		33	28	24		30	25	22	20
9	51	38	30	25	49	37	29	24	33	27	22		30	25	21		28	23	20	17
10	48	35	27	22	45	34	26	21	31	24	20		28	23	19		26	21	18	16

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

	0°
0°	1088
5°	1004
10°	900
15°	820
20°	766
25°	736
30°	726
35°	715
40°	717
45°	732
50°	739
55°	674
60°	549
65°	381
70°	221
75°	120
80°	155
85°	259

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 47.5°  
 Luminance: 743 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	18.1	2.1
10°-20°	48.3	5.7
20°-30°	74.3	8.8
30°-40°	99.1	11.7
40°-50°	122.2	14.4
50°-60°	121.7	14.4
60°-70°	71.4	8.4
70°-80°	25.8	3.0
80°-90°	38.2	4.5
90°-100°	53.4	6.3
100°-110°	58.6	6.9
110°-120°	40.3	4.8
120°-130°	14.4	1.7
130°-140°	11.9	1.4
140°-150°	13.6	1.6
150°-160°	15.6	1.8
160°-170°	14.0	1.7
170°-180°	6.4	0.8
0°-30°	140.8	16.6
0°-40°	239.8	28.3
0°-60°	483.8	57.1
0°-90°	619.1	73.1
90°-120°	152.2	18.0
90°-150°	192.2	22.7
90°-180°	228.0	26.9
0°-180°	847.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	199	
5°	194	18
15°	171	48
25°	160	74
35°	158	99
45°	158	122
55°	138	122
65°	72	71
75°	20	26
85°	36	27
90°	44	24
95°	49	41
105°	56	59
115°	41	40
125°	16	14
135°	15	12
145°	22	14
155°	34	16
165°	50	14
175°	71	6
180°	72	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	199.1
2.5°	197.3
5°	193.7
7.5°	188.1
10°	181.3
12.5°	175.3
15°	170.8
17.5°	167.0
20°	163.7
22.5°	161.3
25°	160.1
27.5°	159.8
30°	159.5
32.5°	158.5
35°	157.5
37.5°	156.9
40°	156.9
42.5°	157.4
45°	158.1
47.5°	159.0
50°	156.2
52.5°	149.1
55°	138.3
57.5°	124.9
60°	108.4
62.5°	89.5
65°	71.7
67.5°	54.5
70°	39.2
72.5°	27.4
75°	19.9
77.5°	19.0
80°	23.7
82.5°	29.7
85°	35.8
87.5°	40.3
90°	44.4
92.5°	47.4
95°	49.1
97.5°	50.7
100°	52.5
102.5°	54.1
105°	55.5
107.5°	56.7
110°	58.1



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	57.5
115°	41.2
117.5°	23.9
120°	18.6
122.5°	16.8
125°	15.7
127.5°	15.1
130°	14.7
132.5°	14.6
135°	15.1
137.5°	16.0
140°	17.4
142.5°	19.3
145°	21.6
147.5°	24.3
150°	27.3
152.5°	30.6
155°	34.0
157.5°	37.4
160°	41.2
162.5°	45.9
165°	50.3
167.5°	54.5
170°	60.0
172.5°	66.1
175°	70.8
177.5°	72.1
180°	72.4

(END OF REPORT)