

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: G2-2210-802-21

Luminaire Tested: PRLX-405-FIL-120-WHST-RHL-TFIN-DW-WH

Test Date: 01/04/23



**Test Information**

Test Method: LM-79-2019  
Report Number: G2-2210-802-21  
Test Lab: COOPER LIGHTING SOLUTIONS  
Test Date: 01/04/23  
Issue Date: 01/04/23  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-405-FIL-120-WHST-RHL-TFIN-DW-WH  
Description: 400-SERIES 3D PRINTED LED LAMP BASED DECORATIVE LUMINAIRE, WHITE (OPAQUE) 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

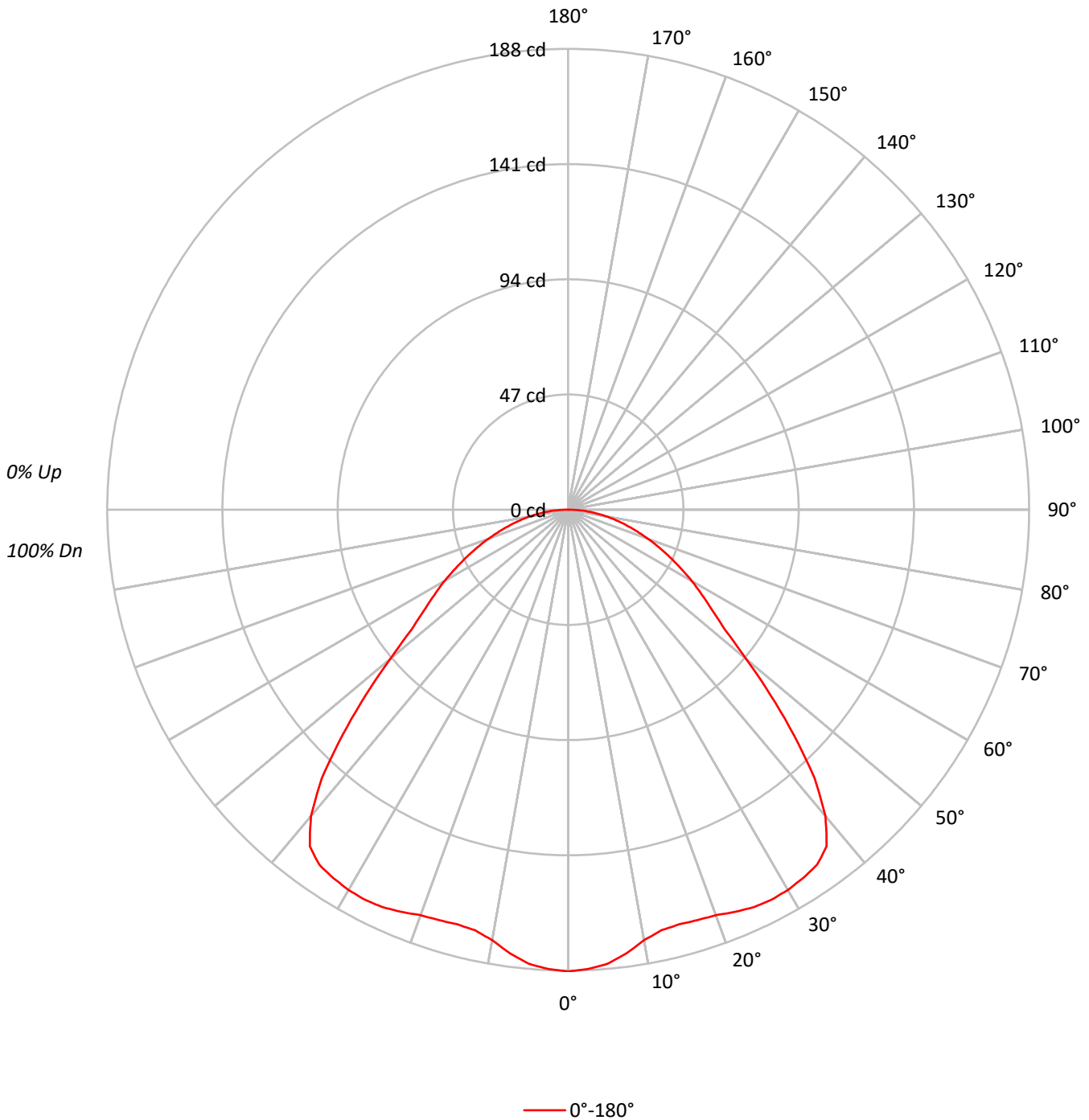
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 505.4 lumens  
Efficiency: N/A  
Efficacy: 64.8 lumens/watt  
Spacing Criteria (0/90/45): 1.44 / 1.44 / 1.4  
Luminous Opening: Vertical Cylinder (Dia: 0.67' x H: 0.92')  
CIE Type: 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): 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	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	110	105	101	97	107	103	99	96	99	96	93		95	92	90		91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81	78	75	72
3	92	82	74	68	90	80	73	68	77	71	66		75	70	65		72	68	64	62
4	85	73	65	58	82	72	64	58	69	63	57		67	61	56		65	60	56	54
5	78	66	57	51	76	65	56	50	62	55	50		61	54	49		59	53	49	47
6	72	59	51	45	70	58	50	44	57	49	44		55	48	44		53	48	43	41
7	67	54	45	39	65	53	45	39	52	44	39		50	44	39		49	43	38	37
8	62	49	41	35	61	49	41	35	47	40	35		46	40	35		45	39	35	33
9	58	45	37	32	57	45	37	32	43	36	32		42	36	31		41	36	31	29
10	55	42	34	29	53	41	34	29	40	33	29		39	33	28		38	33	28	27

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

	0°
0°	5810
5°	4990
10°	4266
15°	3805
20°	3528
25°	3351
30°	3172
35°	2992
40°	2661
45°	2064
50°	1470
55°	1103
60°	892
65°	701
70°	537
75°	387
80°	258
85°	133

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2064 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	17.5	3.5
10°-20°	49.8	9.9
20°-30°	82.6	16.3
30°-40°	109.7	21.7
40°-50°	99.9	19.8
50°-60°	65.5	13.0
60°-70°	45.5	9.0
70°-80°	26.2	5.2
80°-90°	8.7	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	149.9	29.7
0°-40°	259.6	51.4
0°-60°	425.0	84.1
0°-90°	505.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	505.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	188	
5°	186	17
15°	175	50
25°	179	83
35°	177	110
45°	130	100
55°	72	66
65°	46	45
75°	24	26
85°	8	9
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	188.4
2.5°	187.5
5°	185.9
7.5°	182.5
10°	178.3
12.5°	175.7
15°	175.1
17.5°	175.5
20°	176.0
22.5°	177.6
25°	178.9
27.5°	179.4
30°	179.1
32.5°	178.2
35°	176.9
37.5°	173.1
40°	163.2
42.5°	148.7
45°	130.2
47.5°	111.9
50°	94.6
52.5°	80.6
55°	71.8
57.5°	64.7
60°	58.3
62.5°	51.7
65°	45.7
67.5°	40.0
70°	34.6
72.5°	29.4
75°	24.5
77.5°	20.2
80°	15.9
82.5°	11.8
85°	7.9
87.5°	4.4
90°	0.0

(END OF REPORT)