

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: G2-2210-802-27

Luminaire Tested: PRLX-417-FIL-120-WHST-RHL-TFIN-DW-WH

Test Date: 1/11/2023



Test Information

Test Method: LM-79-2019
Report Number: G2-2210-802-27
Test Lab: COOPER LIGHTING SOLUTIONS
Test Date: 1/11/2023
Issue Date: 1/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-417-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

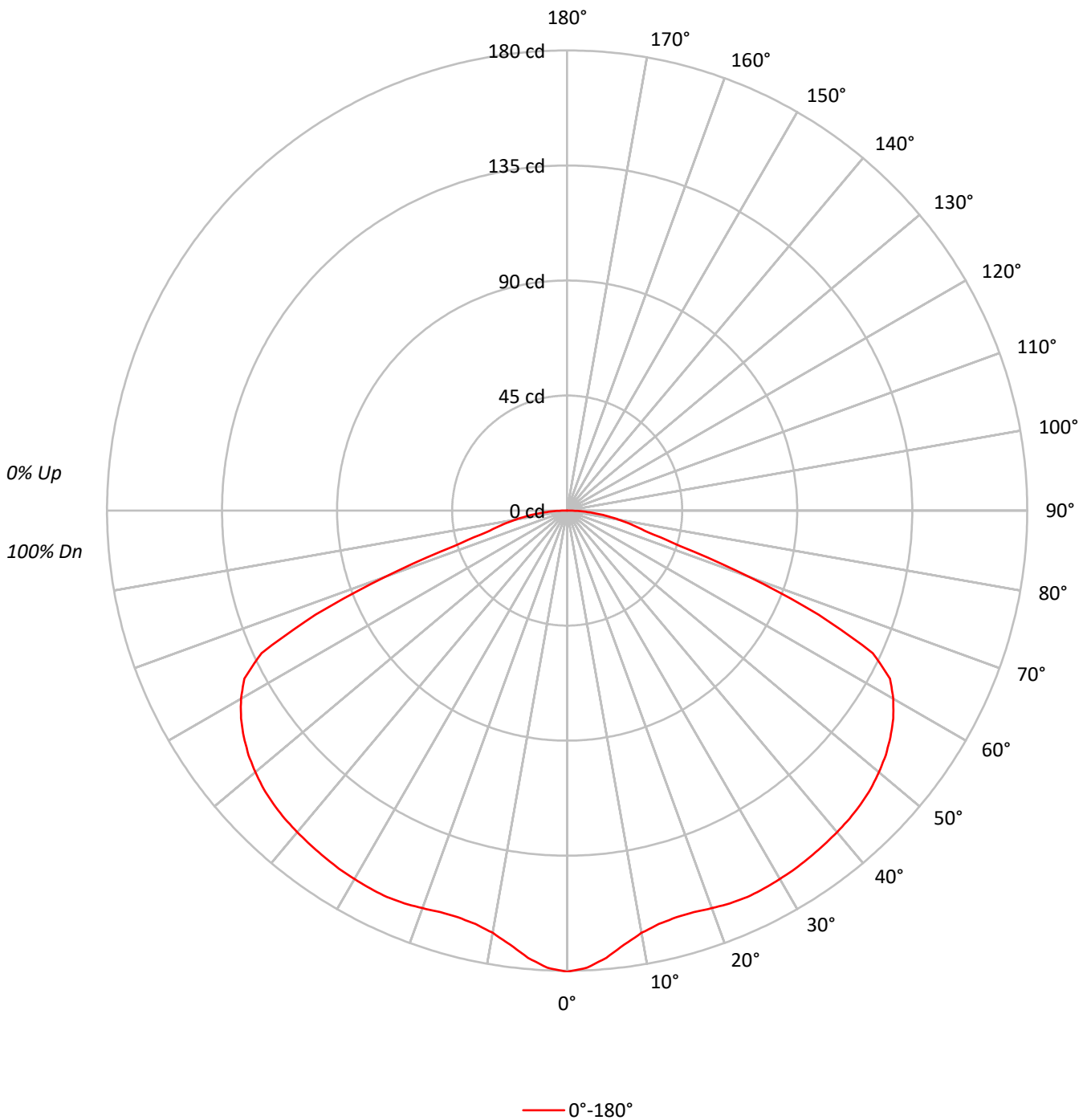
Lumens per Lamp: N/A
Luminaire Lumens: 681.1 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Spacing Criteria (0/90/45): 1.41 / 1.41 / 1.63
Luminous Opening: Vertical Cylinder (Dia: 1.58' x H: 0.83')
CIE Type: Direct

Input Watts (W): 7.8
Input Voltage (V): 120.0
Input Current (A_{in}): 0.0795
Voltage Rise (V): NR
Power Factor: 0.8147
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	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89	87	85	83
2	98	89	81	75	95	87	80	74	83	78	73		80	75	71		77	73	69	67
3	88	77	68	61	85	75	67	60	72	65	59		69	63	58		67	62	57	55
4	80	67	58	50	77	66	57	50	63	55	49		61	54	49		58	53	48	46
5	73	59	49	42	71	58	49	42	56	48	42		54	47	41		52	46	41	38
6	67	53	43	36	65	52	43	36	50	42	36		48	41	35		46	40	35	33
7	62	47	38	31	60	46	38	31	45	37	31		43	36	31		42	35	30	28
8	57	43	34	28	55	42	33	27	41	33	27		39	32	27		38	32	27	25
9	53	39	30	24	52	38	30	24	37	30	24		36	29	24		35	29	24	22
10	50	36	27	22	48	35	27	22	34	27	22		33	26	22		32	26	21	20

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	986
5°	910
10°	833
15°	790
20°	774
25°	767
30°	757
35°	752
40°	750
45°	752
50°	753
55°	752
60°	745
65°	700
70°	425
75°	195
80°	136
85°	72

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 47.5°
 Luminance: 753 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.5	2.4
10°-20°	46.9	6.9
20°-30°	77.0	11.3
30°-40°	103.9	15.3
40°-50°	125.5	18.4
50°-60°	138.1	20.3
60°-70°	121.7	17.9
70°-80°	40.3	5.9
80°-90°	11.1	1.6
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°	140.4	20.6
0°-40°	244.3	35.9
0°-60°	507.9	74.6
0°-90°	681.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	681.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	180	
5°	176	16
15°	165	47
25°	167	77
35°	166	104
45°	162	126
55°	154	138
65°	132	122
75°	32	40
85°	10	11
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	180.4
2.5°	179.0
5°	175.6
7.5°	171.2
10°	167.7
12.5°	165.6
15°	164.7
17.5°	164.7
20°	165.5
22.5°	166.3
25°	166.8
27.5°	166.7
30°	166.4
32.5°	166.1
35°	165.5
37.5°	164.9
40°	164.2
42.5°	163.5
45°	162.4
47.5°	161.1
50°	159.2
52.5°	157.1
55°	154.4
57.5°	151.3
60°	147.3
62.5°	142.4
65°	131.9
67.5°	106.5
70°	75.6
72.5°	46.3
75°	32.4
77.5°	26.4
80°	20.7
82.5°	15.3
85°	10.0
87.5°	5.1
90°	0.0

(END OF REPORT)