

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: G2-2210-802-2

Luminaire Tested: PRLX-403-FIL-120-CL-RHL-TFWHST-DW-WH

Test Date: 12/12/22



Test Information

Test Method: LM-79-2019
Report Number: G2-2210-802-2
Test Lab: COOPER LIGHTING SOLUTIONS
Test Date: 12/12/22
Issue Date: 12/12/22
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-403-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 LAMP
FILAMENT BULB - 60W EQUIVALENT 929001969604
8A19/PER/927-922/CL/G/E26/WGX 1FB T20. PHILIPS
Ballast/Driver: INTEGRAL TO LAMP

Summary

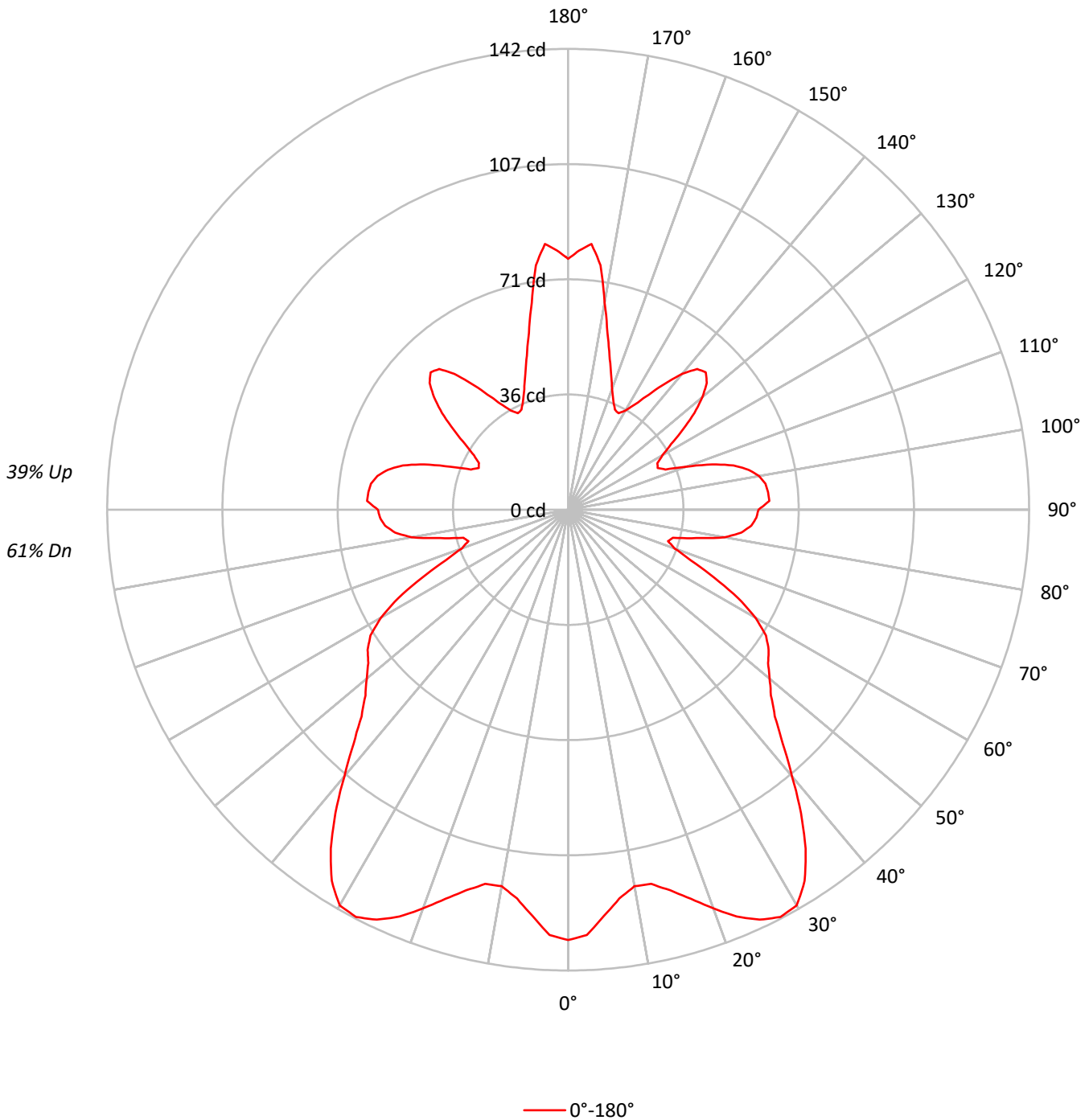
Lumens per Lamp: N/A
Luminaire Lumens: 778.5 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Spacing Criteria (0/90/45): 1.44 / 1.44 / 1.39
Luminous Opening: Vertical Cylinder (Dia: 0.67' x H: 0.92')
CIE Type: Semi-Direct

Input Watts (W): 7.7
Input Voltage (V): 120.0
Input Current (A_{in}): 0.0793
Voltage Rise (V): NR
Power Factor: 0.8154
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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	66	66	66	61
1	98	92	87	82	91	86	81	77	75	71	68	64	61	59	54	52	51	46
2	88	80	72	66	82	74	68	63	65	60	55	56	52	48	47	44	42	37
3	80	70	61	55	75	65	58	52	57	51	46	49	44	40	42	38	35	31
4	73	62	53	46	68	58	50	44	50	44	39	43	38	34	37	33	30	27
5	67	55	46	39	63	51	43	37	45	38	33	39	34	30	33	29	26	23
6	62	49	40	34	58	46	38	32	40	34	29	35	30	26	30	26	23	20
7	57	44	36	30	53	42	34	28	37	30	26	32	27	23	27	23	20	18
8	53	40	32	26	50	38	30	25	33	27	23	29	24	20	25	21	18	16
9	50	37	29	23	46	35	27	22	31	24	20	27	22	18	23	19	16	14
10	46	34	26	21	43	32	25	20	28	22	18	25	20	16	22	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4089
5°	3374
10°	2818
15°	2638
20°	2620
25°	2611
30°	2493
35°	2156
40°	1749
45°	1427
50°	1259
55°	1158
60°	1020
65°	763
70°	542
75°	528
80°	796
85°	953

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1427 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.7	1.5
10°-20°	34.9	4.5
20°-30°	64.1	8.2
30°-40°	78.9	10.1
40°-50°	70.7	9.1
50°-60°	67.0	8.6
60°-70°	49.5	6.4
70°-80°	39.2	5.0
80°-90°	60.6	7.8
90°-100°	66.6	8.6
100°-110°	54.4	7.0
110°-120°	32.2	4.1
120°-130°	38.7	5.0
130°-140°	44.7	5.7
140°-150°	27.8	3.6
150°-160°	16.3	2.1
160°-170°	13.9	1.8
170°-180°	7.2	0.9
0°-30°	110.7	14.2
0°-40°	189.6	24.4
0°-60°	327.2	42.0
0°-90°	476.6	61.2
90°-120°	153.2	19.7
90°-150°	264.5	34.0
90°-180°	302.0	38.8
0°-180°	778.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	133	
5°	126	12
15°	121	35
25°	139	64
35°	128	79
45°	90	71
55°	75	67
65°	50	50
75°	33	39
85°	57	45
90°	59	33
95°	62	50
105°	53	54
115°	30	32
125°	43	39
135°	60	45
145°	43	28
155°	34	16
165°	49	14
175°	82	7
180°	77	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	132.6
2.5°	131.2
5°	125.7
7.5°	120.8
10°	117.8
12.5°	118.1
15°	121.4
17.5°	125.7
20°	130.7
22.5°	135.7
25°	139.4
27.5°	141.5
30°	140.8
32.5°	135.6
35°	127.5
37.5°	117.8
40°	107.3
42.5°	97.8
45°	90.0
47.5°	84.7
50°	81.0
52.5°	77.6
55°	75.4
57.5°	72.2
60°	66.7
62.5°	59.0
65°	49.7
67.5°	40.9
70°	34.9
72.5°	32.2
75°	33.4
77.5°	40.4
80°	49.0
82.5°	53.8
85°	56.6
87.5°	58.0
90°	58.6
92.5°	62.0
95°	61.8
97.5°	61.3
100°	59.7
102.5°	56.9
105°	52.7
107.5°	46.5
110°	38.6



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	32.4
115°	30.4
117.5°	31.0
120°	33.5
122.5°	37.6
125°	43.2
127.5°	49.0
130°	54.0
132.5°	57.9
135°	59.9
137.5°	58.8
140°	54.6
142.5°	49.0
145°	43.3
147.5°	38.5
150°	35.2
152.5°	33.5
155°	34.0
157.5°	36.3
160°	39.5
162.5°	43.9
165°	49.1
167.5°	55.8
170°	64.7
172.5°	76.0
175°	82.2
177.5°	80.0
180°	77.3

(END OF REPORT)