

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: G2-2210-802-8

Luminaire Tested: PRLX-415-FIL-120-CL-RHL-TFWHST-DW-WH

Test Date: 1/12/2023



Test Information

Test Method: LM-79-2019
Report Number: G2-2210-802-8
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-415-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

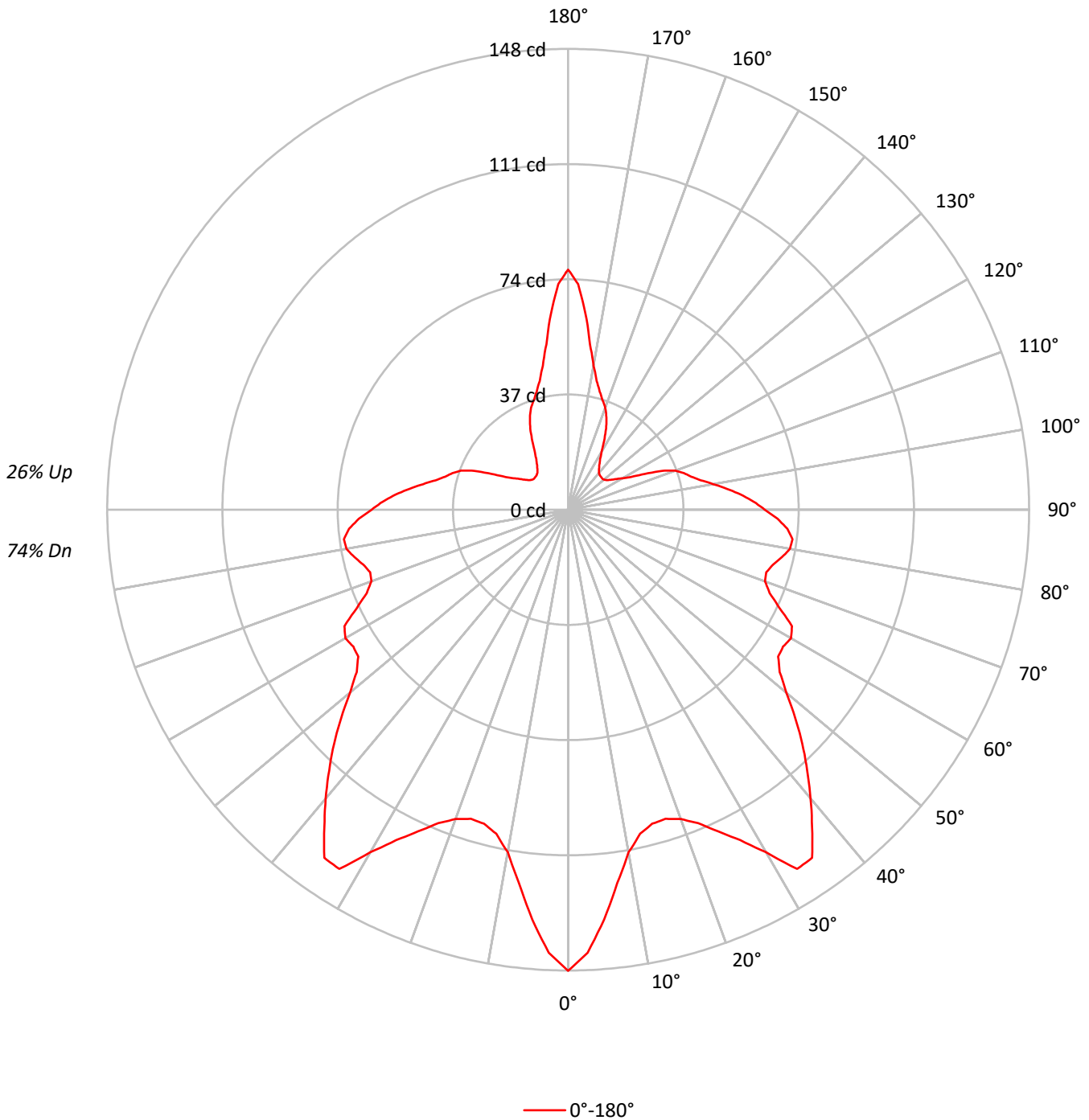
Lumens per Lamp: N/A
Luminaire Lumens: 757.9 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Spacing Criteria (0/90/45): 1.41 / 1.41 / 1.42
Luminous Opening: Vertical Cylinder (Dia: 1.58' x H: 0.83')
CIE Type: Semi-Direct

Input Watts (W): 7.8
Input Voltage (V): 120.0
Input Current (Ain): 0.0794
Voltage Rise (V): NR
Power Factor: 0.8153
Total Harmonic Distortion (THDi): 70.6%
Frequency (hertz): 60
Stabilization Time: 0.333 HR
Operation Time: 3 HR
Ambient Temperature (°C): 25.1
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		87	87	87		78	78	78	74
1	99	92	87	81	93	87	82	78	78	74	70		70	66	63		62	59	57	53
2	88	79	70	64	83	74	67	61	66	60	55		59	54	50		52	49	45	41
3	80	68	59	51	75	64	56	49	57	51	45		51	46	41		45	41	37	33
4	73	60	50	43	68	56	48	41	50	43	37		45	39	34		40	35	31	28
5	66	53	43	36	62	50	41	35	45	37	32		40	34	29		36	31	26	23
6	61	47	38	31	57	45	36	30	40	33	27		36	30	25		32	27	23	20
7	56	42	33	27	53	40	32	26	36	29	24		33	27	22		29	24	20	18
8	52	38	30	24	49	37	28	23	33	26	21		30	24	19		27	22	18	15
9	49	35	27	21	46	33	26	20	30	23	19		27	21	17		25	20	16	14
10	45	32	24	19	43	31	23	18	28	21	17		25	20	15		23	18	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	810
5°	685
10°	555
15°	501
20°	494
25°	524
30°	578
35°	620
40°	553
45°	492
50°	432
55°	401
60°	418
65°	398
70°	378
75°	411
80°	474
85°	511

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 516 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.0	1.6
10°-20°	30.0	4.0
20°-30°	53.4	7.0
30°-40°	82.5	10.9
40°-50°	82.0	10.8
50°-60°	75.4	10.0
60°-70°	74.5	9.8
70°-80°	72.7	9.6
80°-90°	75.9	10.0
90°-100°	60.5	8.0
100°-110°	43.8	5.8
110°-120°	27.6	3.6
120°-130°	15.3	2.0
130°-140°	11.6	1.5
140°-150°	11.1	1.5
150°-160°	13.0	1.7
160°-170°	11.1	1.5
170°-180°	5.5	0.7
0°-30°	95.3	12.6
0°-40°	177.8	23.5
0°-60°	335.2	44.2
0°-90°	558.3	73.7
90°-120°	131.9	17.4
90°-150°	170.0	22.4
90°-180°	200.0	26.4
0°-180°	757.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	148	
5°	132	12
15°	104	30
25°	114	53
35°	136	82
45°	106	82
55°	82	75
65°	75	75
75°	68	73
85°	71	58
90°	63	35
95°	56	44
105°	41	44
115°	27	28
125°	17	15
135°	15	12
145°	17	11
155°	29	13
165°	39	11
175°	63	6
180°	77	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	148.1
2.5°	142.4
5°	132.1
7.5°	120.9
10°	111.7
12.5°	106.6
15°	104.4
17.5°	104.1
20°	105.7
22.5°	108.9
25°	114.0
27.5°	119.6
30°	127.0
32.5°	136.8
35°	136.5
37.5°	128.6
40°	121.1
42.5°	113.6
45°	106.3
47.5°	98.8
50°	91.4
52.5°	85.6
55°	82.3
57.5°	81.8
60°	82.6
62.5°	81.0
65°	74.9
67.5°	70.0
70°	67.2
72.5°	66.7
75°	68.1
77.5°	70.3
80°	72.3
82.5°	72.6
85°	70.6
87.5°	67.3
90°	63.1
92.5°	59.6
95°	55.6
97.5°	51.4
100°	47.3
102.5°	43.6
105°	40.9
107.5°	39.0
110°	36.6



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	32.7
115°	27.1
117.5°	22.7
120°	20.2
122.5°	18.3
125°	16.7
127.5°	15.6
130°	15.0
132.5°	14.8
135°	14.9
137.5°	15.0
140°	15.4
142.5°	16.2
145°	17.4
147.5°	19.0
150°	21.4
152.5°	24.9
155°	28.8
157.5°	32.1
160°	34.8
162.5°	36.8
165°	39.2
167.5°	42.3
170°	46.9
172.5°	53.6
175°	63.4
177.5°	72.5
180°	77.1

(END OF REPORT)