

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: G2-2210-802-3

Luminaire Tested: PRLX-405-FIL-120-CL-RHL-TFWHST-DW-WH

Test Date: 12/13/22



Test Information

Test Method: LM-79-2019
Report Number: G2-2210-802-3
Test Lab: COOPER LIGHTING SOLUTIONS
Test Date: 12/13/22
Issue Date: 12/13/22
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-405-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

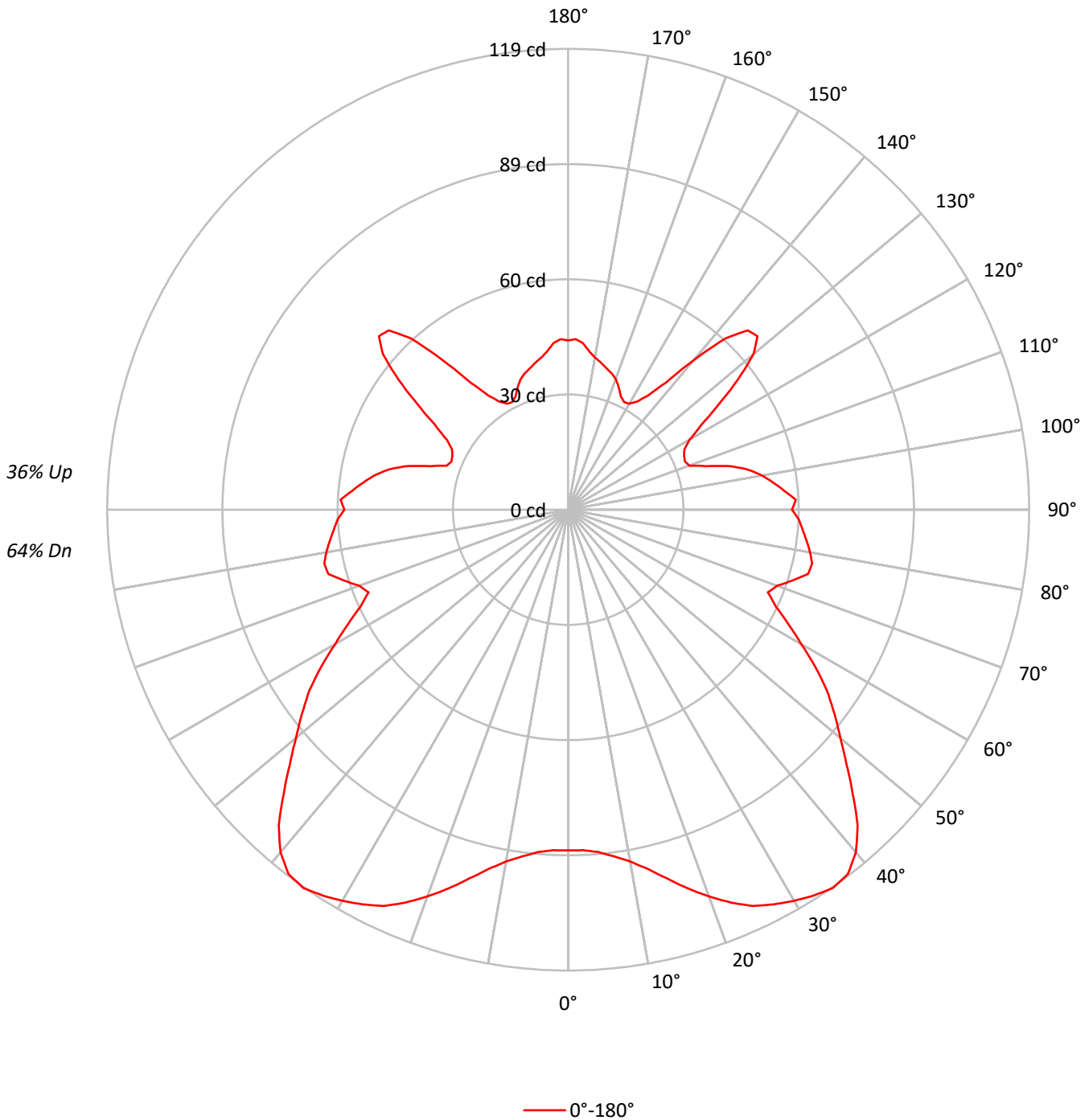
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 792.4 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Spacing Criteria (0/90/45): 1.84 / 1.84 / 1.76
Luminous Opening: Vertical Cylinder (Dia: 0.92' x H: 0.67')
CIE Type: Semi-Direct

Input Watts (W): 7.8
Input Voltage (V): 120.0
Input Current (A_{in}): 0.0793
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): 25.0
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	111	111	111	111	104	104	104	104	91	91	91		80	80	80		69	69	69	64
1	97	91	86	81	91	85	81	76	75	71	67		65	62	59		55	53	51	46
2	87	78	70	64	81	73	66	60	64	58	53		55	51	47		47	44	41	37
3	79	68	59	52	73	63	55	49	55	49	44		48	43	38		41	37	33	30
4	72	59	50	43	67	56	47	41	49	42	36		42	37	32		36	32	28	25
5	66	53	43	36	61	49	41	35	43	36	31		37	32	27		32	28	24	21
6	60	47	38	31	56	44	36	30	39	32	27		34	28	24		29	24	21	18
7	56	42	33	27	52	40	32	26	35	28	23		30	25	21		26	22	18	16
8	52	38	30	24	48	36	28	23	32	25	20		28	22	18		24	19	16	14
9	48	35	27	21	45	33	25	20	29	23	18		25	20	16		22	17	14	12
10	45	32	24	19	42	30	23	18	27	20	16		23	18	14		20	16	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1435
5°	1343
10°	1313
15°	1334
20°	1380
25°	1419
30°	1431
35°	1440
40°	1384
45°	1244
50°	1106
55°	999
60°	871
65°	764
70°	772
75°	907
80°	953
85°	982

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1244 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.6	1.1
10°-20°	28.2	3.6
20°-30°	52.1	6.6
30°-40°	74.1	9.4
40°-50°	80.2	10.1
50°-60°	72.6	9.2
60°-70°	60.1	7.6
70°-80°	66.1	8.3
80°-90°	66.3	8.4
90°-100°	60.7	7.7
100°-110°	45.2	5.7
110°-120°	33.3	4.2
120°-130°	43.0	5.4
130°-140°	48.2	6.1
140°-150°	24.0	3.0
150°-160°	15.1	1.9
160°-170°	10.7	1.3
170°-180°	4.0	0.5
0°-30°	88.9	11.2
0°-40°	163.0	20.6
0°-60°	315.8	39.9
0°-90°	508.3	64.1
90°-120°	139.2	17.6
90°-150°	254.3	32.1
90°-180°	284.0	35.8
0°-180°	792.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	88	
5°	89	9
15°	99	28
25°	113	52
35°	119	74
45°	104	80
55°	82	73
65°	59	60
75°	64	66
85°	61	50
90°	58	32
95°	56	45
105°	43	45
115°	33	33
125°	47	43
135°	66	48
145°	36	24
155°	32	15
165°	38	11
175°	43	4
180°	44	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	88.0
2.5°	88.0
5°	88.7
7.5°	90.3
10°	92.2
12.5°	95.0
15°	98.6
17.5°	102.5
20°	106.3
22.5°	109.8
25°	112.9
27.5°	114.9
30°	116.6
32.5°	118.1
35°	119.2
37.5°	118.6
40°	115.5
42.5°	110.6
45°	103.9
47.5°	97.5
50°	91.7
52.5°	86.6
55°	81.6
57.5°	75.7
60°	69.5
62.5°	64.1
65°	59.1
67.5°	55.8
70°	57.4
72.5°	60.7
75°	64.1
77.5°	64.5
80°	63.4
82.5°	62.1
85°	60.8
87.5°	59.6
90°	57.8
92.5°	58.8
95°	56.0
97.5°	53.4
100°	50.8
102.5°	47.7
105°	43.4
107.5°	37.4
110°	33.3



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	32.6
115°	33.0
117.5°	33.8
120°	36.2
122.5°	40.7
125°	47.4
127.5°	55.2
130°	62.4
132.5°	66.3
135°	65.5
137.5°	59.9
140°	50.4
142.5°	41.3
145°	36.0
147.5°	33.1
150°	31.6
152.5°	31.3
155°	32.2
157.5°	34.1
160°	35.9
162.5°	37.0
165°	37.9
167.5°	38.9
170°	39.9
172.5°	41.3
175°	43.2
177.5°	44.1
180°	43.7

(END OF REPORT)