

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: G3-2203-583-18

Luminaire Tested: PRLX-313-FIL-120-CL-WHST

Test Date: 6/16/2022

Test Information

Test Method: LM-79-2019
Report Number: G3-2203-583-18
Test Lab: COOPER LIGHTING SOLUTIONS
Test Date: 6/16/2022
Issue Date: 6/16/2022
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-313-FIL-120-CL-WHST
Description: 3D PRINTED LED LAMP BASED DECORATIVE LUMIANIRE, CLEAR (TRANSLUCENT) SHADE, FILAMENT LAMP
Light Source: 1 PHILIPS
FILAMENT BULB - 60W EQUIVALENT 929001969604
8A19/PER/927-922/CL/G/E26/WGX 1FB T20. PHILIPS
Ballast/Driver: PHILIPS
INTEGRAL TO LAMP

Summary

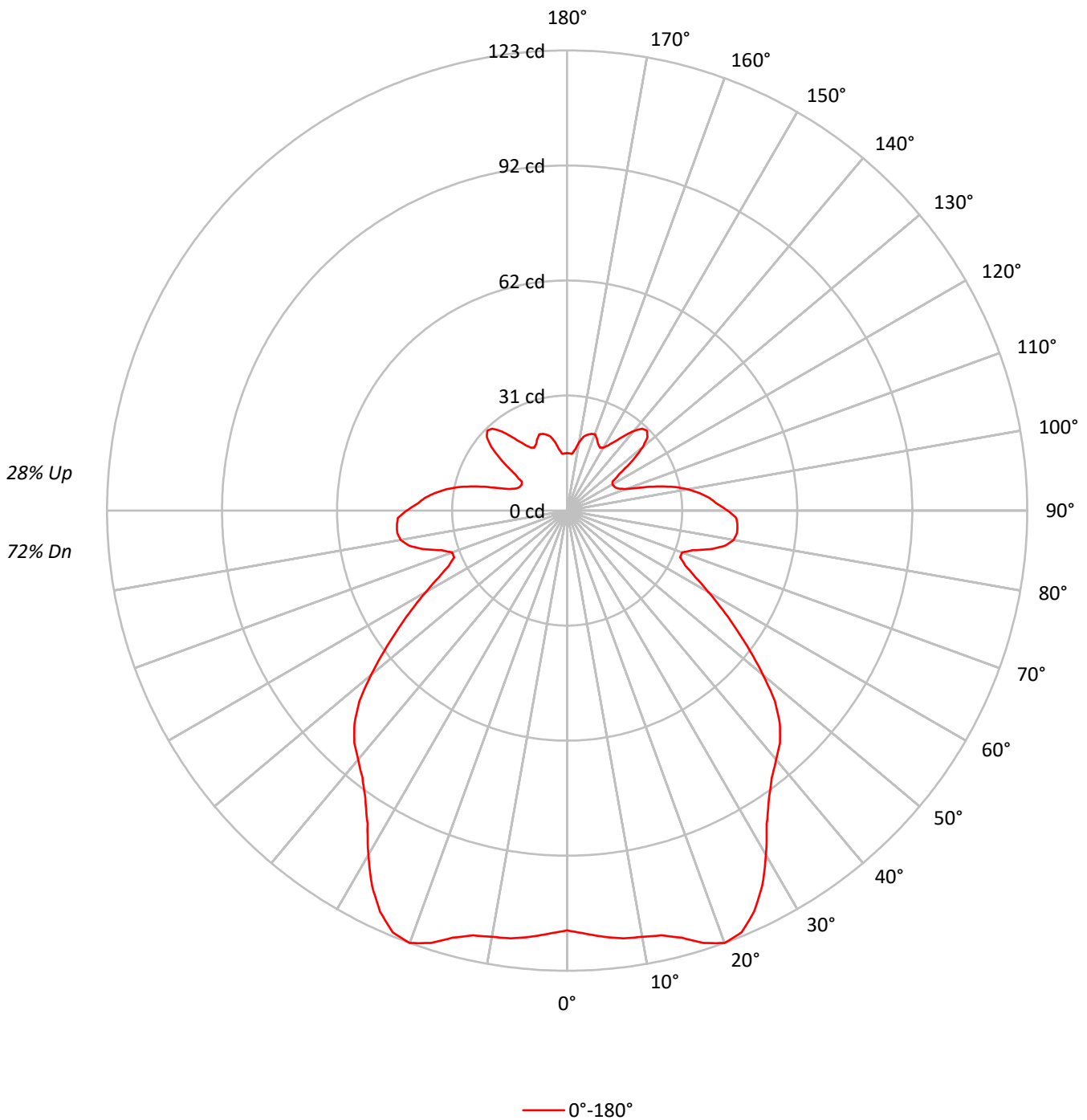
Lumens per Lamp: N/A
Luminaire Lumens: 548.3 lumens
Efficiency: N/A
Efficacy: 71.2 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.65' x L: 0.65' x H: 0.96')
CIE Type: Semi-Direct

Input Watts (W): 7.7
Input Voltage (V): 120.0
Input Current (Ain): 0.0791
Voltage Rise (V): NR
Power Factor: 0.8159
Total Harmonic Distortion (THDi): 70.4%
Frequency (hertz): 60
Stabilization Time: 0.333 HR
Operation Time: 3 HR
Ambient Temperature (°C): 25.3
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	112	112	112	112	107	107	107	107	96	96	96		86	86	86		76	76	76	72
1	99	94	88	84	94	89	84	80	79	75	72		70	67	65		62	60	58	54
2	90	81	73	67	85	76	70	64	68	63	58		61	57	53		54	51	48	44
3	82	71	62	55	77	67	59	53	60	54	49		54	49	44		48	44	40	37
4	75	63	54	47	70	59	51	45	53	47	41		48	42	38		43	38	34	31
5	69	56	47	40	65	53	45	39	48	41	36		43	37	33		38	34	30	27
6	64	50	41	35	60	48	40	34	43	36	31		39	33	29		35	30	26	24
7	59	46	37	31	56	43	35	30	39	33	28		36	30	26		32	27	24	21
8	55	41	33	27	52	40	32	26	36	29	25		33	27	23		29	25	21	19
9	51	38	30	24	48	36	29	24	33	27	22		30	25	21		27	23	19	17
10	48	35	27	22	45	33	26	21	31	24	20		28	22	19		25	21	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2858
5°	2591
10°	2376
15°	2235
20°	2170
25°	1971
30°	1689
35°	1438
40°	1292
45°	1171
50°	983
55°	788
60°	625
65°	506
70°	482
75°	603
80°	708
85°	748

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1171 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.0	2.0
10°-20°	33.8	6.2
20°-30°	53.9	9.8
30°-40°	59.4	10.8
40°-50°	61.3	11.2
50°-60°	49.6	9.0
60°-70°	35.8	6.5
70°-80°	41.6	7.6
80°-90°	49.3	9.0
90°-100°	41.5	7.6
100°-110°	26.3	4.8
110°-120°	14.7	2.7
120°-130°	16.4	3.0
130°-140°	22.5	4.1
140°-150°	14.6	2.7
150°-160°	9.2	1.7
160°-170°	5.9	1.1
170°-180°	1.6	0.3
0°-30°	98.7	18.0
0°-40°	158.1	28.8
0°-60°	268.9	49.0
0°-90°	395.7	72.2
90°-120°	82.4	15.0
90°-150°	136.0	24.8
90°-180°	153.0	27.9
0°-180°	548.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	112	
5°	114	11
15°	118	34
25°	118	54
35°	94	59
45°	80	61
55°	55	50
65°	35	36
75°	40	42
85°	46	37
90°	43	23
95°	38	30
105°	25	26
115°	14	15
125°	17	16
135°	30	22
145°	23	15
155°	20	9
165°	21	6
175°	15	2
180°	15	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	112.2
2.5°	113.2
5°	114.4
7.5°	115.3
10°	115.7
12.5°	116.3
15°	118.2
17.5°	121.2
20°	123.0
22.5°	122.0
25°	118.3
27.5°	113.0
30°	106.3
32.5°	99.3
35°	94.0
37.5°	89.9
40°	86.9
42.5°	84.2
45°	80.4
47.5°	75.3
50°	68.4
52.5°	61.6
55°	55.1
57.5°	49.2
60°	43.6
62.5°	38.7
65°	34.9
67.5°	32.7
70°	32.7
72.5°	35.2
75°	39.8
77.5°	43.3
80°	45.2
82.5°	45.8
85°	45.7
87.5°	45.3
90°	42.9
92.5°	40.2
95°	38.2
97.5°	35.7
100°	32.8
102.5°	29.2
105°	24.9
107.5°	20.3
110°	16.8



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	15.2
115°	14.4
117.5°	14.1
120°	14.0
122.5°	14.4
125°	17.1
127.5°	22.1
130°	26.4
132.5°	29.1
135°	30.2
137.5°	29.7
140°	27.8
142.5°	25.3
145°	22.7
147.5°	20.8
150°	19.4
152.5°	19.0
155°	19.6
157.5°	20.8
160°	21.7
162.5°	21.5
165°	21.0
167.5°	20.2
170°	18.6
172.5°	16.5
175°	15.2
177.5°	15.3
180°	15.3

(END OF REPORT)